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Detroit, MI 48207  
Phone: (248) 957-9911

Attn: Mr. Al Dyer, Environmental Due Diligence Manager  
City of Detroit, Demolition Department  
1301 Third Street, Suite 606  
Detroit, Michigan 48221

Re: Solicitation QQ 4.25.2022  
Fill Material Sampling & Analytical Report – HHF 8 Residential Property List  
Project Number: 0166-1734

Dear Mr. Dyer:

Professional Services Industries, Inc. (PSI), an Intertek company, has prepared this report documenting the Sampling and Analysis of Fill Material requested by the City of Detroit Demolition Department (DDD) in accordance with PSI Proposal No. 0166-372166 dated April 28, 2022 and the Scope of Services included with the notice to proceed (NTP) number 3056188. We understand that the Scope of Services is intended to support the City of Detroit's blight remediation efforts through the sampling and analysis of fill material on multiple demolition sites. The sampling and analysis of fill material activities were completed for four vacant residential properties located at the following addresses:

- 4247 Richton Street
- 4255 Richton Street
- 12339 Promenade Avenue
- 15065 Prevost Street
- 14216 Montrose Street
- 14803 Robson Street
- 19760 Greenlawn Street
- 20425 San Juan Drive

PSI has prepared this report that includes the following information for each of the four subject property addresses is included in the Attachments:

- Figure 1 - A scaled site figure showing the general area of the structure formerly on the site and the location, depth and analytical results of the soil samples.
- Table 1 - A tabulation of the analytical results and a comparison of the results to the current Michigan Department of Environment, Great Lakes and Energy (EGLE), Part 201 Generic Residential Cleanup Criteria (GRCC) and Residential Volatilization to Indoor Air Pathway – Screening Levels (VIAP-SLs).
- Photographic Log – photographs depicting site conditions before, during and after field activities.
- Boring Logs – which include soil descriptions, including soil type, moisture, color, olfactory and visual observations.
- Laboratory Analytical Reports and Chain of Custody Records



## **Scope of Work**

The scope of work was performed in general accordance with the Scope of Service described in the Solicitation QQ 4.25.2022. Any deviations to the scope of services are discussed below. The following tasks were completed at each of the locations described above:

- Site Preparation – including completion of a Health and Safety Plan and contacting Miss Dig, the utility service alert.
- Photographic Log – photographs were collected at each property to document site conditions before, during and after the field activities.
- Fill Material Sampling – three hand auger borings were completed within the area where the fill material was used at each location. The borings were advanced to a depth of approximately four feet below ground surface (bgs) unless refusal prevented advancement to the target depth. One soil sample from each soil boring, collected from the 2 to 3 feet bgs interval (unless otherwise noted), was retained for chemical analysis. Samples retained for analysis were placed in a cooler with ice.
- PSI noted relevant observations made during soil boring advancement and recording the observations on boring logs.
- Soil sampling equipment was decontaminated prior to sampling and between each soil sampling location using an Alconox® wash and distilled water rinse.
- Three soil samples per each address were submitted for chemical analysis of the following:
  - Volatile Organic Compounds (VOCs), EPA Method 5035/8260B/624;
  - Semi-Volatile Organic Compounds (SVOCs), EPA Method 8270C/625;
  - Polychlorinated Biphenyls (PCBs), EPA Method 8082;
  - Michigan 10 Metals, EPA Method 6020/7471;
  - Chloride, EPA Method 9056; and
  - Herbicides and Pesticides – EPA Method 8081/8082

The samples were hand delivered under chain of custody to Brighton Analytical Laboratories, LLC of Brighton, Michigan for analysis.

- Preparation of a Fill Material Sampling and Analytical Report

A site-specific discussion for each of the subject property addresses is provided below.

### **4247 RICHTON STREET**

#### **Field Activities**

On May 13, 2022, between the hours of 8:45 and 9:30 am, PSI field scientists Adam Smak and Michael Angellotti mobilized to 4247 Richton Street to conduct fill material sampling activities. PSI attempted to advance three soil borings identified as 4247-HA-01 through 4247-HA-03 to the target depth of 4 feet bgs; however, encountered refusal at approximately 1 foot below ground surface (bgs) due to the presence of concrete and brick debris encountered during soil boring advancement. Five attempts to clear the refusal were made at the 4247-HA-01 location, three attempts were made at the 4247-HA-02 location and three attempts were made at the 4247-HA-03 location and the hand auger borings could not extend beyond the one-foot bgs depth. Therefore, soil samples were collected from the 0 to 1-foot bgs sample interval.



Material encountered during advancement of the three soil borings included light to brown soil with brick and concrete debris to the depth of the soil borings.

Findings

The laboratory results of the soil samples collected from 4247-HA-01 through 4247-HA-03 indicate that VOCs, herbicides, and PCBs were not detected above laboratory method detection limits (MDLs).

Various SVOCs were detected above laboratory MDLs in the three soil samples, however, the detections did not exceed GRCCs or VIAP-SLs.

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metals mercury and silver were not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCCs for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil boring 4247-HA-01.
- Chromium was detected above GRCCs for the DWP and GSIP exposure pathways for the soil sample collected from soil boring 4247-HA-01; and above the GRCC for the GSIP exposure pathway for the soil samples collected from soil borings 4247-HA-02 and 4247-HA-03.

Chloride was detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The detected concentrations did not exceed the GRCC.

The pesticide 4,4-DDT was detected above the laboratory MDL in the soil sample collected from 4247-HA-03. The detected concentration did not exceed the GRCC. No other pesticide was detected above laboratory MDLs.

Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property

Exposure Pathway Evaluation – 4247 Richton Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No



Exposure Pathway Evaluation – 4247 Richton Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.





## **4255 RICHTON STREET**

### Field Activities

On May 13, 2022, between the hours of 9:30 and 9:50 am, PSI field scientists Adam Smak and Michael Angellotti mobilized to 4255 Richton Street to conduct fill material sampling activities. PSI attempted to advance three soil borings identified as 4255-HA-01 through 4255-HA-03 to the target depth of 4 feet bgs; however, encountered refusal at approximately 1 foot below ground surface (bgs) due to the presence of concrete and brick debris encountered during soil boring advancement. Five attempts to clear the refusal were made at the 4247-HA-01 location, five attempts were made at the 4247-HA-02 location and five attempts were made at the 4247-HA-03 location and the hand auger borings could not extend beyond the one-foot bgs depth. Therefore, soil samples were collected from the 0 to 1-foot bgs sample interval.

Material encountered during advancement of the three soil borings included light to brown soil with brick and concrete debris to the depth of the soil borings.

### Findings

The laboratory results of the soil samples collected from 4255-HA-01 through 4255-HA-03 indicate that VOCs, herbicides, and PCBs were not detected above laboratory method detection limits (MDLs).

Various SVOCs were detected above laboratory MDLs in soil samples collected from 4255-HA-01 and 4255-HA-03, however, the detections did not exceed GRCCs or VIAP-SLs. SVOCs were not detected above laboratory MDLs in the soil sample collected from 4255-HA-01.

The metals arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver and/or zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCCs for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 4255-HA-01 and 4255-HA-02.
- Chromium was detected above GRCCs for the GSIP exposure pathways for the soil samples collected from soil borings 4255-HA-01, 4255-HA-02 and 4255-HA-03.
- Mercury was detected above the GRCC for the GSIP exposure pathway and above the Residential VIAP-SL for the soil sample collected from soil boring 4255-HA-03.
- Selenium was detected above the GRCC for the GSIP exposure pathway for the soil sample collected from soil boring 4255-HA-03.
- Silver was detected above the GRCC for the GSIP exposure pathway for the soil sample collected from soil boring 4255-HA-03.

Chloride was detected above laboratory MDLs in the soil samples collected from 4255-HA-01 and 4255-HA-02. The detected concentrations did not exceed the GRCC. Chloride was not detected above laboratory MDLs in the soil sample collected from 4255-HA-03.



The pesticides 4,4-DDT and 4,4-DDE was detected above the laboratory MDLs in the soil sample collected from 4255-HA-03. The detected concentrations did not exceed the GRCC. No other pesticide was detected above laboratory MDLs.

Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.

Exposure Pathway Evaluation – 4255 Richton Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the Indoor Air Inhalation, DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic, chromium, mercury, selenium and silver detected above GRCC do not represent a human health risk.



### Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

### **12339 PROMENADE AVENUE**

#### Field Activities

On May 13, 2022, between the hours of 10:05 and 10:45 am, PSI field scientists Adam Smak and Michael Angellotti mobilized to 12339 Promenade Avenue to conduct fill material sampling activities. PSI attempted to advance three soil borings identified as 12339-HA-01 through 12339-HA-03 to the target depth of 4 feet bgs; however, encountered refusal at approximately 2 foot below ground surface (bgs) in soil boring 12339-HA-01 due to the presence of concrete and brick debris encountered during soil boring advancement. The target depth of 4 feet bgs, was achieved in soil borings 12339-HA-02 and 12339-HA-03. The soil sample from 12339-HA-01 was collected from the 1 to 2 feet bgs sample interval and the samples collected from 12339-HA-02 and 12339-HA-03 were collected from the 2 to 3 feet bgs target interval.

Material encountered during advancement of the three soil borings included topsoil with brick and concrete debris in 12339-HA-01 and dark brown, moist topsoil to the depth of the soil borings in 12339-HA-02 and 12339-HA-03.

#### Findings

The laboratory results of the soil samples collected from 12339-HA-01 through 12339-HA-03 indicate that VOCs, SVOCs, herbicides, and PCBs were not detected above laboratory method detection limits (MDLs).

The metals arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, and/or zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. Silver was not detected above laboratory MDLs. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCCs for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 12339-HA-01 and 12339-HA-03.
- Chromium was detected above GRCCs for the GSIP exposure pathways for the soil samples collected from soil borings 12339-HA-01, 12339-HA-02 and 12339-HA-03.
- Mercury was detected above the GRCC for the GSIP exposure pathway and above the Residential VIAP-SL for the soil samples collected from soil boring 12339-HA-02 and 12339-HA-03.



Chloride was detected above laboratory MDLs in the soil sample collected from 12339-HA-01. The detected concentration did not exceed the GRCC. Chloride was not detected above laboratory MDLs in the soil samples collected from 12339-HA-02 and 12339-HA-03.

The pesticide 4,4-DDE was detected above the laboratory MDLs in the soil sample collected from 12339-HA-03. The detected concentrations did not exceed the GRCC. No other pesticide was detected above laboratory MDLs.

Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.

Exposure Pathway Evaluation – 12339 Promenade			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the Indoor Air Inhalation, DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic, chromium, and mercury detected above GRCC do not represent a human health risk.



### Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

### **15065 PREVOST STREET**

#### Field Activities

On May 13, 2022, between the hours of 11:00 and 11:40 am, PSI field scientists Adam Smak and Michael Angellotti mobilized to 15065 Prevost Street to conduct fill material sampling activities. PSI advanced three soil borings identified as 15065-HA-01 through 15065-HA-03 to the target depth of 4 feet bgs; therefore, one soil sample was collected from the 2 to 3 feet bgs interval from each soil boring.

Material encountered during advancement of the three soil borings included dark brown to brown topsoil some with gravel to the depth of the soil borings.

#### Findings

The laboratory results of the soil samples collected from 15065-HA-01 through 15065-HA-03 indicate that VOCs, SVOCs, herbicides, and PCBs were not detected above laboratory method detection limits (MDLs).

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metals mercury and silver were not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCCs for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 15065-HA-01, 15065-HA-02 and 15065-HA-3.
- Chromium was detected above the GRCC for the GSIP exposure pathway for the soil samples collected from soil borings 15065-HA-01, 15065-HA-02 and 15065-HA-03.

Chloride was detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The detected concentrations did not exceed the GRCC.

The pesticides cis-chlordane (alpha) and trans-chlordane (gamma) were detected above the laboratory MDL in the soil sample collected from 15065-HA-01. The detected concentration did not exceed the GRCC. No other pesticide was detected above laboratory MDLs.



Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.

Exposure Pathway Evaluation – 15065 Prevost Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.



PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

## **14126 MONTROSE STREET**

### Field Activities

On May 10, 2022, between the hours of 12:00 and 1:30 pm, PSI field scientists Adam Smak and David Adams mobilized to 14126 Montrose Street to conduct fill material sampling activities. PSI advanced three soil borings identified as 14126-HA-01 through 14126-HA-03 to the target depth of 4 feet bgs; therefore, one soil sample was collected from the 2 to 3 feet bgs interval from each soil boring.

Material encountered during advancement of the three soil borings included dark brown to brown topsoil some with gravel to the depth of the soil borings.

### Findings

The laboratory results of the soil samples collected from 14126-HA-01 through 14126-HA-03 indicate that VOCs, SVOCs, herbicides, pesticides, chloride and PCBs were not detected above laboratory method detection limits (MDLs), with the exception of Tetrachloroethene in 14126-HA-1 and 14126-HA-2 which exceeded did not exceed the GRCC, except as noted below.

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, mercury, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metal silver was not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Tetrachloroethene was detected above GRCC for Soil Volatilization to Indoor Air Screening Pathway (VIAP) exposure pathways for the soil sample collected from soil borings 14126-HA-01 and 14126-HA-3.
- Arsenic was detected above GRCC for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 14126-HA-01, 14126-HA-02 and 14126-HA-3.
- Chromium was detected above the GRCC for the GSIP exposure pathway for the soil samples collected from soil borings 141265065-HA-01, 15065-HA-02 and 15065-HA-03.
- Mercury was detected above the GRCC for the GSIP and SVIP exposure pathway for the soil samples collected from soil boring 15065-HA-03.

### Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.



Exposure Pathway Evaluation – 14126 Montrose Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.





## 14803 ROBSON STREET

### Field Activities

On May 10, 2022, between the hours of 10:30 and 11:30 am, PSI field scientists Adam Smak and David Adams mobilized to 14803 Robson Street to conduct fill material sampling activities. PSI advanced three soil borings identified as 14803-HA-01 through 14803-HA-03 to the target depth of 4 feet bgs; therefore, one soil sample was collected from the 3 to 4 feet bgs interval from each soil boring.

Material encountered during advancement of the three soil borings included dark brown to brown topsoil some with gravel to the depth of the soil borings.

### Findings

The laboratory results of the soil samples collected from 15065-HA-01 through 15065-HA-03 indicate that VOCs, SVOCs, herbicides, pesticides, and PCBs were not detected above laboratory method detection limits (MDLs).

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metals mercury and silver were not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCC for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 14803-HA-01, 14803-HA-02 and 14803-HA-3.
- Chromium was detected above the GRCC for the DWP and GSIP exposure pathway for the soil samples collected from soil borings 14803-HA-01, 14803-HA-02 and 14803-HA-03.

Chloride was detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The detected concentrations did not exceed the GRCC.

### Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.



Exposure Pathway Evaluation – 14803 Robson			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>• Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>• A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>• Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>• No potable drinking water used onsite.</li> <li>• Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>• No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the fill material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.



## **19760 GREENLAWN STREET**

### Field Activities

On May 10, 2022, between the hours of 9:00 and 11:00 am, PSI field scientists Adam Smak and David Adams mobilized to 19760 Greenlawn Street to conduct fill material sampling activities. PSI advanced three soil borings identified as 19760-HA-01 through 19760-HA-03 to the target depth of 4 feet bgs; therefore, one soil sample was collected from the 2 to 3 feet bgs interval from each soil boring.

Material encountered during advancement of the three soil borings included dark brown to brown topsoil some with gravel and construction debris to the depth of the soil borings.

### Findings

The laboratory results of the soil samples collected from 15065-HA-01 through 15065-HA-03 indicate that VOCs, SVOCs, herbicides, chloride and PCBs were not detected above laboratory method detection limits (MDLs).

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metals mercury and silver were not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Arsenic was detected above GRCC for the Drinking Water Protection (DWP) and Groundwater Surface Water Interface Protection (GSIP) exposure pathways for the soil sample collected from soil borings 19760-HA-01, 19760-HA-02 and 19760-HA-3.
- Chromium was detected above the GRCC for the GSIP exposure pathway for the soil samples collected from soil borings 19760-HA-01, 19760-HA-02 and 19760-HA-03.

The pesticides 4,4-DDE and 4,4-DDT were detected above the laboratory MDL in the soil sample collected from 19760-HA-02 and 19760-HA-03. The detected concentration did not exceed the GRCC. No other pesticide was detected above laboratory MDLs.

### Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.



Exposure Pathway Evaluation – 19760 Greenlawn Street			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"> <li>A building is not present on the subject property.</li> </ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"> <li>Pathway complete during construction or development/demolition activities</li> </ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"> <li>No potable drinking water used onsite.</li> <li>Groundwater not used for potable drinking water in the City of Detroit.</li> </ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"> <li>No surface water is present on the property.</li> </ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.



**20425 SAN JUAN DRIVE**

Field Activities

On May 10, 2022, between the hours of 2:00 and 3:00 pm, PSI field scientists Adam Smak and David Adams mobilized to 20425 San Juan Drive to conduct fill material sampling activities. PSI advanced three soil borings identified as 20425-HA-01 through 20425-HA-03 to the target depth of 4 feet bgs; therefore, one soil sample was collected from the 2 to 3 feet bgs interval from each soil boring.

Material encountered during advancement of the three soil borings included dark brown to brown topsoil some with gravel and construction debris to the depth of the soil borings.

Findings

The laboratory results of the soil samples collected from 20425-HA-01 through 20425-HA-03 indicate that VOCs, SVOCs, herbicides, pesticides, chloride and PCBs were not detected above laboratory method detection limits (MDLs).

The metals arsenic, barium, cadmium, chromium, copper, lead, selenium, and zinc were detected above laboratory MDLs in the soil samples collected from the three soil borings advanced on the subject property. The metals mercury and silver were not detected above laboratory MDLs in any of the soil samples collected. Detected metals did not exceed GRCC, except as noted below:

- Chromium was detected above the GRCC for the GSIP exposure pathway for the soil samples collected from soil borings 20425-HA-01, 20425-HA-02 and 20425-HA-03.

Exposure Pathway Evaluation

The exposure pathway evaluation is intended to identify potential transport mechanisms by which contamination could migrate through the environment from the contaminant source to a potential exposure point. The exposure assessment included an evaluation of potential exposure pathways and transport mechanisms associated with contaminated soil at the subject property.

Exposure Pathway Evaluation – 20425 San Juan Drive			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Direct Contact (DC)	Yes	<ul style="list-style-type: none"> <li>Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No
Particulate Soil Inhalation (PI)	Yes	<ul style="list-style-type: none"> <li>Soils present at intervals (&lt; 1') where onsite occupants/utility workers may be expected to access them.</li> </ul>	No



Exposure Pathway Evaluation – 20425 San Juan Drive			
Exposure Pathway	Exposure Pathway Complete?		If pathway Complete, are criteria exceeded
	Yes/No	Justification	Residential
Indoor Air Inhalation (IAI or VIAP-SLs)	No	<ul style="list-style-type: none"><li>A building is not present on the subject property.</li></ul>	NA
Ambient Air Inhalation (AAI)	Yes	<ul style="list-style-type: none"><li>Pathway complete during construction or development/demolition activities</li></ul>	No
Groundwater Ingestion (DWP)	No	<ul style="list-style-type: none"><li>No potable drinking water used onsite.</li><li>Groundwater not used for potable drinking water in the City of Detroit.</li></ul>	NA
Groundwater Surface Water Interface (GSIP)	No	<ul style="list-style-type: none"><li>No surface water is present on the property.</li></ul>	NA

Based on the exposure pathway evaluation, the DWP and GSIP exposure pathways are not complete. Therefore, the concentrations of arsenic and chromium detected above GRCC do not represent a human health risk.

### Conclusions

PSI has evaluated the analytical results of the fill material. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

### **CLOSING**

PSI has completed the Sampling and Analysis of Fill Material requested by the City of Detroit Demolition Department (DDD) in accordance with PSI Proposal No. 0166-372166 dated April 28, 2022 and the Scope of Services included with the notice to proceed (NTP) number 3056188, except as noted above. The sampling and analysis of unknown fill material was completed at 8 HHF residential properties located at the following addresses:

- 4247 Richton Street
- 4255 Richton Street



- 12339 Promenade Avenue
- 15065 Prevost Street
- 14216 Montrose Street
- 14803 Robson Street
- 19760 Greenlawn Street
- 20425 San Juan Drive

PSI has evaluated the analytical results of the fill material for the above listed sites. Based upon the analytical results, we have determined that the material is contaminated above the EGLE Part 201 Generic Residential Cleanup Criteria, as applicable.

Additionally, construction debris material was encountered during the advancement of the hand auger soil borings for 4247 Richton, 4255 Richton, and 12339 Promenade consisting of red brick, stone and concrete which limited the depth of the hand auger soil borings and collected soil samples.

PSI warrants that no information or documentation was deleted, omitted, or changed that would otherwise cause the City of Detroit and its agencies and authorities to reach a different conclusion. Furthermore, PSI understands that the City of Detroit and its agencies and authorities rely upon the overall completeness, accuracy, and conclusions in this report and hereby provides reliance on the contents presented herein.

PSI believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed. The findings are partially based on data provided by others. PSI cannot guarantee the accuracy of data provided by others. No warranty is expressed or implied with the usage of such data.

This report was prepared pursuant to the contract PSI has with the DDD. That contractual relationship included an exchange of information about the subject site that was unique and between PSI and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between PSI and its client, reliance, or any use of this report by anyone other than the DDD and/or its affiliates, parents and subsidiaries, for whom it was prepared, is prohibited and therefore not foreseeable to PSI.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to PSI's contract with the DDD. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.



PSI appreciates the opportunity to provide environmental consulting services on this project. If you have any questions or need additional assistance, please contact us at 248-957-9911.

Respectfully submitted,  
**Professional Service Industries, Inc.**

A handwritten signature in blue ink, appearing to read 'Kennan Robins'.

Kennan Robins  
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[kennan.robins@intertek.com](mailto:kennan.robins@intertek.com)

A handwritten signature in black ink, appearing to read 'Debra Hagerty'.

Debra Hagerty  
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Environmental Services  
[debra.hagerty@intertek.com](mailto:debra.hagerty@intertek.com)

**ATTACHMENTS:**

**ATTACHMENT 1 – 4247 Richton Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 2 – 4255 Richton Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 3 – 12339 Promenade Avenue**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 4 – 15065 Prevost Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 5 – 14126 Montrose Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 6 – 14803 Robson Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 7 – 19760 Greenlawn Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records

**ATTACHMENT 8 – 20425 San Juan Drive**

Figure 1 – Soil Sample Location Map with Soil Analytical Results; Table 1 – Summary of Soil Analytical Results; Photographic Log; Boring Logs; and Laboratory Analytical Reports and Chain of Custody Records



## **ATTACHMENTS**

## **ATTACHMENT 1 – 4247 Richton Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
 Bold numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

(4226)

(4234)

(4246)

(4254)

(4260)

ALLEY

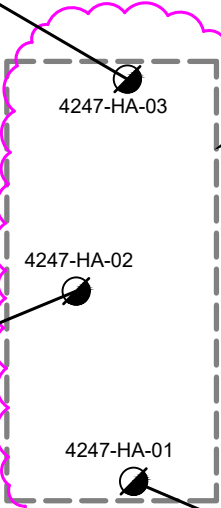
4247-HA-03	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
Benzo(a)anthracene	1,400
Benzo(b)fluoranthene	1,700
Benzo(k)fluoranthene	560
Benzo(g,h,i)perylene	830
Benzo(a)pyrene	1,400
Chrysene	1,100
Fluoranthene	2,900
Indeno(1,2,3-cd)pyrene	820
Phenanthrene	390
Pyrene	1,200
Remaining SVOCs	ND

<b>Metals</b>	
Arsenic	2,600
Barium	41,000
Cadmium	360
Chromium	7,000
Copper	7,900
Lead, Total	47,000
Mercury (Total)	<50
Selenium	210
Silver	<100
Zinc	56,000

<b>Inorganic Analysis</b>	
Chloride	20,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
4,4-DDT	39
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

4247-HA-02	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
Fluoranthene	400
Remaining SVOCs	ND
<b>Metals</b>	
Arsenic	3,200
Barium	56,000
Cadmium	310
Chromium	10,000
Copper	8,600
Lead, Total	40,000
Mercury (Total)	<50
Selenium	240
Silver	<100
Zinc	58,000

<b>Inorganic Analysis</b>	
Chloride	33,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND



FORMER BUILDING LOCATION  
 DISTRESSED VEGETATION  
 SUBJECT PROPERTY

4247-HA-01	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
Benzo(a)anthracene	750
Benzo(b)fluoranthene	1,300
Benzo(k)fluoranthene	460
Benzo(g,h,i)perylene	760
Benzo(a)pyrene	920
Chrysene	860
Fluoranthene	2,000
Indeno(1,2,3-cd)pyrene	670
Pyrene	860
Remaining SVOCs	ND

<b>Metals</b>	
Arsenic	5,900
Barium	74,000
Cadmium	360
Chromium	47,000
Copper	12,000
Lead, Total	32,000
Mercury (Total)	<50
Selenium	320
Silver	<100
Zinc	73,000

<b>Inorganic Analysis</b>	
Chloride	44,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

RICHTON STREET

**LEGEND:**



4247-HA-00  
 HAND AUGER SOIL SAMPLE LOCATION



**Environmental Services**  
 1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207  
 (248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results  
 4247 Richton Street,  
 Detroit, Michigan 48204

Checked: K. Robins	Scale: See Legend	Date: 5-25-2022	Figure: 1
Drawn: A. Smak	Project Number: 01661734-1		

Table 1 – Summary of Soil Analytical Results

SITE NAME		4247 Richton Street, Detroit, MI														
Project No.		0166-1734-1														
		EGLE Residential Cleanup Criteria (µg/kg)														
COMPOUND	Chemical Abstract Service Number (CAS)	Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact		4247- HA-01	4247- HA-02	4247- HA-03			
			Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels						
Sample interval (feet)											0-1	0-1	0-1			
Date Sampled											5/13/22	5/13/22	5/13/22			
<b>VOCs</b>																
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>																
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	1.60E+05	NLV	ID	20,000	NA	750	<330	1,400			
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	NA	ID	ID	20,000	NA	1,300	<330	1,700			
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NA	NLV	ID	200,000	NA	460	<330	560			
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NA	NLV	8.00E+08	2.50E+06	NA	760	<330	830			
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NA	NLV	1.50E+06	2,000	NA	920	<330	1,400			
Chrysene	218019	NA	NLL	NLL	ID	NA	ID	ID	2.00E+06	NA	860	<330	1,100			
Fluoranthene	206440	NA	730,000	5,500	1.0E+9 (D)	NA	7.40E+08	9.30E+09	4.60E+07	NA	2,000	400	2,900			
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NA	NLV	ID	20,000	NA	670	<330	820			
Phenanthrene	85018	NA	56,000	2,100	2.80E+06	1,700	160,000	6.70E+06	1.60E+06	NA	<330	<330	390			
Pyrene	129000	NA	480,000	ID	1.0E+9 (D)	2.50E+07	6.50E+08	6.70E+09	2.90E+07	NA	860	<330	1,200			
Remaining SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND			
<b>Metals</b>																
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	5,900	3,200	2,600			
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	74,000	56,000	41,000			
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	360	310	360			
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	47,000	10,000	7,000			
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	12,000	8,600	7,900			
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	32,000	40,000	47,000			
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	<50			
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	320	240	210			
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100			
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	73,000	58,000	56,000			
<b>Inorganic Analysis</b>																
Chloride	16887006	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	44,000	33,000	20,000			
<b>Herbicides</b>																
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND			
<b>Pesticides</b>																
4,4-DDT	50293	NA	NLL	NLL	NLV	NA	NLV	3.20E+07	57,000	NA	<20	<20	39			
Remaining Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND			
<b>PCBs</b>																
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND			

## FOOTNOTES

Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria

**Bold** numbers indicates detection above laboratory method detection limits (MDLs)

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001). Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
4247 Richton Street,  
Detroit, Wayne County, MI 48204



Front View of Subject Property



View of Subject Property



View of Debris on Subject Property



View of Typical Debris Found in Soil Boring



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:05  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4247-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 4247 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Five Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:15  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4247-HA-02**  
 PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 4247 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Three Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				



# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:18  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4247-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 4247 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Three Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				

May 24, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 4247 Richton Street, Detroit, MI  
0166-1734

Dear Mr. Robins :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/13/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81794 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00595** Project Number: **0166-1734**  
 Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5900	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	74000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	360	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	47000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	12000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	32000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	320	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	73000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	44000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
BA Sample ID: **CR00595** Project Number: **0166-1734**  
Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	750	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	920	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	1300	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	760	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	460	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00595**

Project Number: **0166-1734**

Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	860	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	2000	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	670	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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Sample Date: 05/13/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00595**

Project Number: **0166-1734**

Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	860	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022





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BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00595** Project Number: **0166-1734**  
 Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00595**

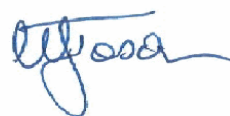
Project Number: **0166-1734**

Sample ID: **4247-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	87	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/24/2022





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Sample Date: 05/13/2022  
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 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00596** Project Number: **0166-1734**  
 Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	3200	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	56000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	310	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	10000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	8600	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	40000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	240	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	58000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	33000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00596**

Project Number: **0166-1734**

Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00596** Project Number: **0166-1734**  
 Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	400	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00596**

Project Number: **0166-1734**

Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00596**

Project Number: **0166-1734**

Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00596**

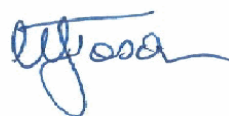
Project Number: **0166-1734**

Sample ID: **4247-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	89	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/24/2022



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Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00597** Project Number: **0166-1734**  
 Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	2600	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	41000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	360	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	7000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	7900	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	47000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	210	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	56000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	39	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00597**

Project Number: **0166-1734**

Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	1400	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	1400	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	1700	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	830	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	560	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00597**

Project Number: **0166-1734**

Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	1100	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	2900	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	820	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00597** Project Number: **0166-1734**  
 Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	390	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	1200	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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BA Report Number: **81794**

Project Name: **4247 Richton Street, Detroit, MI**

BA Sample ID: **CR00597**

Project Number: **0166-1734**

Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

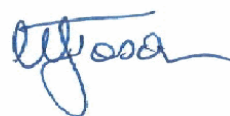
To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81794** Project Name: **4247 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00597** Project Number: **0166-1734**  
 Sample ID: **4247-HA-03 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	89	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/24/2022







BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

# ICP-MS

## METHOD 200.8/6020

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S1

Matrix Spike Lab ID: CR00604

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	111642	106338	4.9	100000	96.9	91.6	14704	<500	104.0	98.9
Copper	114112	106442	7.0	100000	102.5	94.9	11587	<1000	108.1	92.0
Zinc	158486	153320	3.3	100000	102.1	96.9	56430	<1000	108.8	104.6
Arsenic	87353	88401	1.2	100000	83.5	84.5	3862	<100	107.2	100.4
Selenium	93509	78968	16.9	100000	93.3	78.7	258	<100	102.4	101.5
Silver	815	787	3.5	1000	77.2	74.4	43	<100	98.9	108.5
Cadmium	103375	99279	4.0	100000	103.1	99.0	269	<50	107.6	103.0
Barium	153569	148394	3.4	100000	97.2	92.0	56406	<100	108.5	101.6
Lead	129377	121846	6.0	100000	110.1	102.6	19295	<1000	111.6	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Herbicide

Analysis Date: 5/19/2022

Method Reference: EPA 8151

Matrix: Soil

Batch: 05/17/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCPA (Surrogate)	1.0	ND	95 / 96	50 - 130	105%
Silvex	0.2	ND	92 / 90	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCPA (Surrogate)	0.95	0.96	1.3	≤ 20%	103%
Silvex	0.184	0.180	2.2	≤ 20%	78%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

COMMENTS: \_\_\_\_\_



## Ion Chromatograph EPA Method 300.0

Date: 5/18/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,094	102	2,888	3,060	94	90-110%	µg/L
Chloride	<1000	50,000	49,653	99	68,444	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,006	101				90-110%	µg/L
Nitrate	<10	1,000	985	98	6,348	6,240	102	90-110%	µg/L
Sulfate	<1000	50,000	49,470	99	15,313	15,300	100	90-110%	µg/L

Sample ID# 0606

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	445	5,000	5,467	5,296	100	97	3.2	80-120%	µg/L
Chloride	12,651	50,000	62,226	60,323	99	95	3.1	80-120%	µg/L
Nitrite	2	1,000	1,011	971	101	97	4.0	80-120%	µg/L
Nitrate	5	1,000	986	949	98	94	3.8	80-120%	µg/L
Sulfate	9,976	50,000	59,462	57,462	99	95	3.4	80-120%	µg/L

Sample ID# 0862

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	68	5,000	5,143	5,052	101	100	1.8	80-120%	µg/L
Chloride	5,639	50,000	55,486	54,258	100	97	2.2	80-120%	µg/L
Nitrite	0	1,000	1,009	989	101	99	2.0	80-120%	µg/L
Nitrate	0	1,000	967	947	97	95	2.1	80-120%	µg/L
Sulfate	166,686	50,000	216,741	211,767	100	90	2.3	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/18/2022

Std ID: #4420/#4436

Inst./Detec:HP5973/GC-MS

Laboratory ID#: CR00595

Matrix: soil

Analyst: RG

Ext.date:5/17/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Spjike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr.recov.	LCS-MStd	Method Blank
2-Fluorophenol	68	72	5.7	100	70	33-115	81	86	82
D5-Phenol	73	80	9.2	100	77	34-122	91	90	91
D5-Nitrobenzene	61	62	1.6	100	62	23-132	76	76	73
2-Fluorobiphenyl	62	61	1.6	100	62	20-126	74	77	73
2,4,6-Tribromophenol	82	84	2.4	100	83	23-132	91	94	79
D14-Terphenyl	52	50	3.9	100	51	27-142	61	69	65
<b>COMPOUNDS</b>									
Phenol	67	71	5.8	100	69	30-159	ND	74	<330
2-Chlorophenol	73	76	4.0	100	75	48-124	ND	83	<330
1,4-Dichlorobenzene	64	65	1.6	100	65	36-105	ND	73	<330
2-Methylphenol	74	83	11.5	100	79	45-117	ND	87	<330
N-nitrosodipropylamine	74	78	5.3	100	76	44-129	ND	85	<330
1,2,4-Trichlorobenzene	62	61	1.6	100	62	32-109	ND	69	<330
4-Chloro-3-methylphenol	86	96	11.0	100	91	23-164	ND	99	<330
2-Methylnaphthalene	69	71	2.9	100	70	21-130	ND	77	<330
2,4,5-Trichlorophenol	99	105	5.9	100	102	5-159	ND	111	<330
Acenaphthene	71	73	2.8	100	72	43-125	ND	79	<330
3-Nitroaniline	78	83	6.2	100	81	27-139	ND	88	<830
Dibenzofuran	69	72	4.3	100	71	32-138	ND	78	<330
2,4- Dinitrotoluene	76	81	6.4	100	79	28-137	ND	90	<330
4 - Nitrophenol	117	130	10.5	100	124	5-181	ND	140	<830
Pentachlorophenol	79	77	2.6	100	78	5-188	ND	85	<800
DI-n-butylphthalate	80	78	2.5	100	79	34-128	ND	91	<330
Pyrene	58	59	1.7	100	59	19-159	ND	65	<330

\* Matrix Spike Precision +/-20 RPD

Comments:

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 18, 2022 Spike Std. ID: 4486 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00811 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	49.2	47.8	2.8	50	98	96	70-130	98%	97%	99%
d8-Toluene	49.7	49.4	0.6	50	99	99	70-130	104%	99%	98%
4-Bromofluorobenzene	48.6	48.7	0.3	50	97	97	70-130	95%	94%	103%
<b>COMPOUNDS</b>										
1,1- Dichloroethene	53.1	53.1	0.0	50	106%	106%	70-130	<1	109%	<1
1,1- Dichloroethane	48.0	48.7	1.4	50	96%	97%	70-130	<1	105%	<1
Chloroform	45.0	44.7	0.6	50	90%	89%	70-130	<1	101%	<1
1,2- Dichloroethane	47.9	48.4	1.1	50	96%	97%	70-130	<1	101%	<1
Carbon tetrachloride	49.2	47.9	2.8	50	98%	96%	70-130	<1	104%	<1
1,2- Dichloropropane	57.9	54.1	6.7	50	116%	108%	70-130	<1	116%	<1
cis- 1,3 -dichloropropene	49.7	49.1	1.2	50	99%	98%	70-130	<1	110%	<1
Trichloroethene	45.2	45.3	0.3	50	90%	91%	70-130	<1	98%	<1
Dibromochloromethane	48.8	48.5	0.6	50	98%	97%	70-130	<1	103%	<1
1,1,2- Trichloroethane	47.3	47.1	0.4	50	95%	94%	70-130	<1	99%	<1
Tetrachloroethane	44.9	44.4	1.1	50	90%	89%	70-130	<1	106%	<1
1,1,2,2 -Tetrachloroethane	50.2	49.3	1.7	50	100%	99%	70-130	<1	107%	<1
Chlorobenzene	47.4	47.7	0.6	50	95%	95%	70-130	<1	94%	<1
1,3- Dichlorobenzene	47.3	47.5	0.6	50	95%	95%	70-130	<1	99%	<1
1,4- Dichlorobenzene	48.0	48.9	1.8	50	96%	98%	70-130	<1	96%	<1
1,2-Dichlorobenzene	48.0	47.9	0.2	50	96%	96%	70-130	<1	98%	<1

ug/L is equivalent to ppb

Comments: \_\_\_\_\_



# REPRESENTATIVE BATCH QUALITY CONTROL

## Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/18/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCB (Surrogate)	0.50	ND	111 / 115	50 - 130	79%
Aroclor 1260	1.0	ND	78 / 78	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Aroclor 1260	0.78	0.78	0.6	≤ 20%	96%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/18/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00595	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	111 / 115	60 - 130	79%
Lindane	0.05	ND	103 / 99	60 - 130	<20
Heptachlor	0.05	ND	68 / 77	60 - 130	<20
Aldrin	0.05	ND	73 / 76	60 - 130	<20
Dieldrin	0.05	ND	77 / 86	60 - 130	<20
Endrin	0.05	ND	71 / 78	60 - 130	<20
DDT	0.05	0.04	97 / 94	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00595	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Lindane	0.052	0.049	4.8	≤ 20%	117%
Heptachlor	0.034	0.038	11.6	≤ 20%	82%
Aldrin	0.037	0.038	3.5	≤ 20%	91%
Dieldrin	0.039	0.043	10.8	≤ 20%	88%
Endrin	0.036	0.039	8.3	≤ 20%	107%
DDT	0.090	0.088	2.1	≤ 20%	74%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: Background due to sample matrix

## **ATTACHMENT 2 – 4255 Richton Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records



Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
**Bold** numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

(4234)

(4246)

(4254)

(4260)

(4268)

ALLEY

4255-HA-03	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
Benzo(a)anthracene	360
Benzo(b)fluoranthene	430
Fluoranthene	880
Pyrene	350
Remaining SVOCs	ND
<b>Metals</b>	
Arsenic	4,000
Barium	90,000
Cadmium	1,100
Chromium	15,000
Copper	16,000
Lead, Total	130,000
Mercury (Total)	62
Selenium	420
Silver	140
Zinc	190,000
<b>Inorganic Analysis</b>	
Chloride	<20,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
4,4'-DDE	93
4,4'-DDT	39
Remaining Pesticides	ND
<b>PCBs</b>	
PCBs	ND

4255-HA-02	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
SVOCs	ND
<b>Metals</b>	
Arsenic	5,000
Barium	81,000
Cadmium	230
Chromium	15,000
Copper	13,000
Lead, Total	19,000
Mercury (Total)	<50
Selenium	220
Silver	<100
Zinc	52,000
<b>Inorganic Analysis</b>	
Chloride	31,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

4255-HA-01	0-1
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCs</b>	
Benzo(a)anthracene	520
Benzo(b)fluoranthene	1,000
Benzo(k)fluoranthene	390
Benzo(g,h,i)perylene	660
Benzo(a)pyrene	760
Chrysene	530
Fluoranthene	1,200
Indeno(1,2,3-cd)pyrene	530
Phenanthrene	340
Pyrene	570
Remaining SVOCs	ND
<b>Metals</b>	
Arsenic	5,300
Barium	84,000
Cadmium	400
Chromium	18,000
Copper	16,000
Lead, Total	60,000
Mercury (Total)	<50
Selenium	250
Silver	<100
Zinc	89,000
<b>Inorganic Analysis</b>	
Chloride	41,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

4255-HA-03

4255-HA-02

4255-HA-01

FORMER BUILDING LOCATION

DISTRESSED VEGETATION

SUBJECT PROPERTY

(4247)

(4261)

(4267)

RIGHTON STREET

**LEGEND:**



4255-HA-00  
 HAND AUGER SOIL SAMPLE LOCATION

0 25'  
 APPROXIMATE SCALE IN FEET

(4244)

(4260)

(4268)



**Environmental Services**

1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207

(248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results

4255 Richton Street,  
 Detroit, Michigan 48204

Checked:  
 K. Robins

Scale:  
 See Legend

Date:  
 5-25-2022

Figure:  
 1

Drawn:  
 A. Smak

Project Number:  
 01661734-2

Table 1 – Summary of Soil Analytical Results

SITE NAME		4255 Richton Street, Detroit, MI											
Project No.		0166-1734-2											
		EGLE Residential Cleanup Criteria (µg/kg)											
COMPOUND	Chemical Abstract Service Number (CAS)	Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact		4255- HA-01	4255- HA-02	4255- HA-03
			Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels			
Sample interval (feet)													
Date Sampled													
<b>VOCs</b>													
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies
<b>SVOCs</b>													
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	1.60E+05	NLV	ID	20,000	NA	520	<330	360
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	NA	ID	ID	20,000	NA	1,000	<330	430
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NA	NLV	ID	200,000	NA	390	<330	<330
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NA	NLV	8.00E+08	2.50E+06	NA	660	<330	<330
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NA	NLV	1.50E+06	2,000	NA	760	<330	<330
Chrysene	218019	NA	NLL	NLL	ID	NA	ID	ID	2.00E+06	NA	530	<330	<330
Fluoranthene	206440	NA	730,000	5,500	1.0E+9 (D)	NA	7.40E+08	9.30E+09	4.60E+07	NA	1,200	<330	880
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NA	NLV	ID	20,000	NA	530	<330	<330
Phenanthrene	85018	NA	56,000	2,100	2.80E+06	1,700	160,000	6.70E+06	1.60E+06	NA	340	<330	<330
Pyrene	129000	NA	480,000	ID	1.0E+9 (D)	2.50E+07	6.50E+08	6.70E+09	2.90E+07	NA	570	<330	350
Remaining SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Metals</b>													
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	5,300	5,000	4,000
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	84,000	81,000	90,000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	400	230	1,100
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	18,000	15,000	15,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	16,000	13,000	16,000
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	60,000	19,000	130,000
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	62
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	250	220	420
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	140
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	89,000	52,000	190,000
<b>Inorganic Analysis</b>													
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	41,000	31,000	<20,000
<b>Herbicides</b>													
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Pesticides</b>													
4,4'-DDE	72559	NA	NLL	NLL	NLV	39,000	NLV	3.20E+07	45,000	NA	<20	<20	93
4,4'-DDT	50293	NA	NLL	NLL	NLV	NA	NLV	3.20E+07	57,000	NA	<20	<20	39
Remaining Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>PCBs</b>													
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND

## FOOTNOTES

Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria

**Bold** numbers indicates detection above laboratory method detection limits (MDLs)

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Survey Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001). Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
4255 Richton Street,  
Detroit, Wayne County, MI 48204



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface



View of Ground Surface



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:25  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4255-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 4255 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Five Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:30  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4255-HA-02**  
 PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 4255 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Five Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M Angellotti  
 DATE: May 13, 2022  
 TIME: 9:35  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~1' BGS

BORING/PIT No: **4255-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 4255 Richton Street, Detroit  
 DRILLING CO: PSI  
 DRILL CREW: M.Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
1		50-100%	SOIL - light brown to dark brown, brick and concrete debris throughout.	
2			End of Boring ~1 BGS - Refusal (Five Attempts)	
3				
4				
5				
6				
7				
8				
9				
10				



May 24, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 4255 Richton Street, Detroit, MI  
0166-1734

Dear Mr. Robins :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/13/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81795 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00598** Project Number: **0166-1734**  
 Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5300	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	84000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	400	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	18000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	16000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	60000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	250	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	89000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	41000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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e-mail: bai-brighton@sbcglobal.net  
EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
BA Sample ID: **CR00598** Project Number: **0166-1734**  
Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	520	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	760	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	1000	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	660	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	390	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00598**

Project Number: **0166-1734**

Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	530	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	1200	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	530	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
BA Sample ID: **CR00598** Project Number: **0166-1734**  
Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	340	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	570	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00598** Project Number: **0166-1734**  
 Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00598**

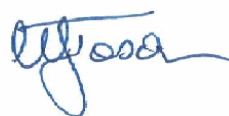
Project Number: **0166-1734**

Sample ID: **4255-HA-01 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	91	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/24/2022





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Sample Date: 05/13/2022  
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 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00599** Project Number: **0166-1734**  
 Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5000	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	81000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	230	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	15000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	13000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	19000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	220	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	52000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	31000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00599** Project Number: **0166-1734**  
 Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00599**

Project Number: **0166-1734**

Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00599**

Project Number: **0166-1734**

Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00599** Project Number: **0166-1734**  
 Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00599**

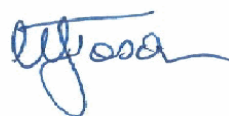
Project Number: **0166-1734**

Sample ID: **4255-HA-02 (0-1')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	86	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/24/2022



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Sample Date: 05/13/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00600** Project Number: **0166-1734**  
 Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4000	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	90000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	1100	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	15000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	16000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	130000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	62	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	420	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	140	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	190000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	93	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	39	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022





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Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
BA Sample ID: **CR00600** Project Number: **0166-1734**  
Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	360	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	430	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00600**

Project Number: **0166-1734**

Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	<b>880</b>	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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 2105 Pless Drive  
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 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795**

Project Name: **4255 Richton Street, Detroit, MI**

BA Sample ID: **CR00600**

Project Number: **0166-1734**

Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	350	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



**Brighton Analytical LLC**  
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 e-mail:bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00600** Project Number: **0166-1734**  
 Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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Sample Date: 05/13/2022  
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 Report Date: 05/24/2022

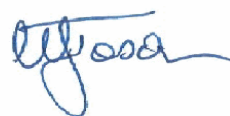
To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81795** Project Name: **4255 Richton Street, Detroit, MI**  
 BA Sample ID: **CR00600** Project Number: **0166-1734**  
 Sample ID: **4255-HA-03 (1-1.5')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	88	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/24/2022





**Brighton Analytical, L.L.C™**  
 2105 Pless Drive  
 Brighton, MI 48114  
 Phone: 810-229-7575 Fax: 810-229-8650

**PROJECT NAME:**  
(48 SPACES MAXIMUM)

4255 Richton Street, Detroit, MI

**PROJECT NUMBER:**  
(24 SPACES MAXIMUM)

0166-1734

**P.O. NUMBER:**

Quote: RFQ-042522QQ

Sample collected by:

A. Samk

If RUSH approved by:

REQUESTED TURNAROUND: (X BOX WITH TAT NEEDED)  
 Default TAT Standard: 5 - 10 Business days  
 RUSH: 1 Business day (verify with lab)  
 RUSH: 2 Business days  
 RUSH: 3 Business days  
 RUSH SURCHARGE  
 1 DAY=3X COST 2 DAY = 2X COST 3 DAY = 1.5X COST  
 35 Characters Limit

1	2	3
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Brighton ID #

1) 55X 4255-HA-01 (0-1)  
 2) 559 4255-HA-02 (0-1)  
 3) 600 4255-HA-03 (1-1.5)

Time	Date
9:30	05/13/22
9:35	5/13/2022
9:40	05/13/22

**Container Type & Quantity**

VOA'S (PRES)	VOA'S (UNPRES)	HDPE UNPRESERVED	HDPE HNO <sub>3</sub> FILTERED	HDPE HNO <sub>3</sub> UNFILTERED	HDPE H <sub>2</sub> SO <sub>4</sub>	HDPE NaOH	AMBER GLASS	AMBER GLASS H <sub>2</sub> SO <sub>4</sub>	GLASS, NO PRESERVATIVE	MEOH Preserved:	(Field or Lab Preserved)
1									1	F	S
1									1	F	S
1									1	F	S

**Sample Matrix**

VOCS (8260B)	SVOCs (8270/EPA 625)	MI 10 Metals (6020/7471)	PCBs (8082)	Chloride (9056)	Pesticides (EPA 608)	Herbicides (EPA 615)
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

NETWORK  
 EPA 608  
 EPA 615

**Drinking Water:**

Fax to LCHD? yes  no   
 Chlorinated Water Supply? yes  no   
 MCL Failure yes  no   
 Client Notified (date/time/initials):

Special Instructions: Standard Turn around Time

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	Adam Smak		5/13/2022	1:33	3				
2					4				

**Analysis Requested/Method**

PAGE: 1 OF 1

**REPORT RESULTS TO:**  
 Intertek PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335

**Attn:** Kevin Wozniak  
 Kennan Robins  
**PHONE:** 248-955-1138

**FAX:**

**EMAIL:** kevin.wozniak@intertek.com  
 kennan.robins@intertek.com

Sample received within holding time? yes  no   
 Temperature of samples: 20°C  
 pH verified in login? yes  no   
 Headspace/bubbles in VOA'S? yes  no   
 Sample containers and COC match? yes  no

**BILLING ADDRESS (IF REQUIRED)**



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL



# ICP-MS

## METHOD 200.8/6020

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022                      Standard ID: 050522 S                      Batch: 05/19/2022 S1  
 Matrix Spike Lab ID: CR00604                      Matrix: Soil                      Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	111642	106338	4.9	100000	96.9	91.6	14704	<500	104.0	98.9
Copper	114112	106442	7.0	100000	102.5	94.9	11587	<1000	108.1	92.0
Zinc	158486	153320	3.3	100000	102.1	96.9	56430	<1000	108.8	104.6
Arsenic	87353	88401	1.2	100000	83.5	84.5	3862	<100	107.2	100.4
Selenium	93509	78968	16.9	100000	93.3	78.7	258	<100	102.4	101.5
Silver	815	787	3.5	1000	77.2	74.4	43	<100	98.9	108.5
Cadmium	103375	99279	4.0	100000	103.1	99.0	269	<50	107.6	103.0
Barium	153569	148394	3.4	100000	97.2	92.0	56406	<100	108.5	101.6
Lead	129377	121846	6.0	100000	110.1	102.6	19295	<1000	111.6	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_

**REPRESENTATIVE BATCH QUALITY CONTROL**  
**Accuracy & Precision**

**Analyst:** BY/TP

**Parameter:** Herbicide

**Analysis Date:** 5/19/2022

**Method Reference:** EPA 8151

**Matrix:** Soil

**Batch:** 05/17/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCPA (Surrogate)	1.0	ND	95 / 96	50 - 130	105%
Silvex	0.2	ND	92 / 90	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCPA (Surrogate)	0.95	0.96	1.3	≤ 20%	103%
Silvex	0.184	0.180	2.2	≤ 20%	78%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

**COMMENTS:** \_\_\_\_\_

Representative Batch Precision And Accuracy Quality Control Summary

## Ion Chromatograph EPA Method 300.0

Date: 5/18/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,094	102	2,888	3,060	94	90-110%	µg/L
Chloride	<1000	50,000	49,653	99	68,444	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,006	101				90-110%	µg/L
Nitrate	<10	1,000	985	98	6,348	6,240	102	90-110%	µg/L
Sulfate	<1000	50,000	49,470	99	15,313	15,300	100	90-110%	µg/L

Sample ID# 0606

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	445	5,000	5,467	5,296	100	97	3.2	80-120%	µg/L
Chloride	12,651	50,000	62,226	60,323	99	95	3.1	80-120%	µg/L
Nitrite	2	1,000	1,011	971	101	97	4.0	80-120%	µg/L
Nitrate	5	1,000	986	949	98	94	3.8	80-120%	µg/L
Sulfate	9,976	50,000	59,462	57,462	99	95	3.4	80-120%	µg/L

Sample ID# 0862

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	68	5,000	5,143	5,052	101	100	1.8	80-120%	µg/L
Chloride	5,639	50,000	55,486	54,258	100	97	2.2	80-120%	µg/L
Nitrite	0	1,000	1,009	989	101	99	2.0	80-120%	µg/L
Nitrate	0	1,000	967	947	97	95	2.1	80-120%	µg/L
Sulfate	166,686	50,000	216,741	211,767	100	90	2.3	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/18/2022

Std ID: #4420/#4436

Inst./Detec:HP5973/GC-MS

Laboratory ID#: CR00595

Matrix: soil

Analyst: RG

Ext.date:5/17/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Sp[ike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr.recov.	LCS-MStd	Method Blank
2-Fluorophenol	68	72	5.7	100	70	33-115	81	86	82
D5-Phenol	73	80	9.2	100	77	34-122	91	90	91
D5-Nitrobenzene	61	62	1.6	100	62	23-132	76	76	73
2-Fluorobiphenyl	62	61	1.6	100	62	20-126	74	77	73
2,4,6-Tribromophenol	82	84	2.4	100	83	23-132	91	94	79
D14-Terphenyl	52	50	3.9	100	51	27-142	61	69	65
<b>COMPOUNDS</b>									
Phenol	67	71	5.8	100	69	30-159	ND	74	<330
2-Chlorophenol	73	76	4.0	100	75	48-124	ND	83	<330
1,4-Dichlorobenzene	64	65	1.6	100	65	36-105	ND	73	<330
2-Methylphenol	74	83	11.5	100	79	45-117	ND	87	<330
N-nitrosodipropylamine	74	78	5.3	100	76	44-129	ND	85	<330
1,2,4-Trichlorobenzene	62	61	1.6	100	62	32-109	ND	69	<330
4-Chloro-3-methylphenol	86	96	11.0	100	91	23-164	ND	99	<330
2-Methylnaphthalene	69	71	2.9	100	70	21-130	ND	77	<330
2,4,5-Trichlorophenol	99	105	5.9	100	102	5-159	ND	111	<330
Acenaphthene	71	73	2.8	100	72	43-125	ND	79	<330
3-Nitroaniline	78	83	6.2	100	81	27-139	ND	88	<830
Dibenzofuran	69	72	4.3	100	71	32-138	ND	78	<330
2,4- Dinitrotoluene	76	81	6.4	100	79	28-137	ND	90	<330
4 - Nitrophenol	117	130	10.5	100	124	5-181	ND	140	<830
Pentachlorophenol	79	77	2.6	100	78	5-188	ND	85	<800
DI-n-butylphthalate	80	78	2.5	100	79	34-128	ND	91	<330
Pyrene	58	59	1.7	100	59	19-159	ND	65	<330

\* Matrix Spike Precision +/-20 RPD

Comments:

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 18, 2022 Spike Std. ID: 4486 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00811 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	49.2	47.8	2.8	50	98	96	70-130	98%	97%	99%
d8-Toluene	49.7	49.4	0.6	50	99	99	70-130	104%	99%	98%
4-Bromofluorobenzene	48.6	48.7	0.3	50	97	97	70-130	95%	94%	103%
<b>COMPOUNDS</b>										
1,1- Dichloroethene	53.1	53.1	0.0	50	106%	106%	70-130	<1	109%	<1
1,1- Dichloroethane	48.0	48.7	1.4	50	96%	97%	70-130	<1	105%	<1
Chloroform	45.0	44.7	0.6	50	90%	89%	70-130	<1	101%	<1
1,2- Dichloroethane	47.9	48.4	1.1	50	96%	97%	70-130	<1	101%	<1
Carbon tetrachloride	49.2	47.9	2.8	50	98%	96%	70-130	<1	104%	<1
1,2- Dichloropropane	57.9	54.1	6.7	50	116%	108%	70-130	<1	116%	<1
cis- 1,3 -dichloropropene	49.7	49.1	1.2	50	99%	98%	70-130	<1	110%	<1
Trichloroethene	45.2	45.3	0.3	50	90%	91%	70-130	<1	98%	<1
Dibromochloromethane	48.8	48.5	0.6	50	98%	97%	70-130	<1	103%	<1
1,1,2- Trichloroethane	47.3	47.1	0.4	50	95%	94%	70-130	<1	99%	<1
Tetrachloroethane	44.9	44.4	1.1	50	90%	89%	70-130	<1	106%	<1
1,1,2,2 -Tetrachloroethane	50.2	49.3	1.7	50	100%	99%	70-130	<1	107%	<1
Chlorobenzene	47.4	47.7	0.6	50	95%	95%	70-130	<1	94%	<1
1,3- Dichlorobenzene	47.3	47.5	0.6	50	95%	95%	70-130	<1	99%	<1
1,4- Dichlorobenzene	48.0	48.9	1.8	50	96%	98%	70-130	<1	96%	<1
1,2-Dichlorobenzene	48.0	47.9	0.2	50	96%	96%	70-130	<1	98%	<1

ug/L is equivalent to ppb

Comments: \_\_\_\_\_





## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/18/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCB (Surrogate)	0.50	ND	111 / 115	50 - 130	79%
Aroclor 1260	1.0	ND	78 / 78	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Aroclor 1260	0.78	0.78	0.6	≤ 20%	96%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_

# REPRESENTATIVE BATCH QUALITY CONTROL

## Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/18/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00595	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	111 / 115	60 - 130	79%
Lindane	0.05	ND	103 / 99	60 - 130	<20
Heptachlor	0.05	ND	68 / 77	60 - 130	<20
Aldrin	0.05	ND	73 / 76	60 - 130	<20
Dieldrin	0.05	ND	77 / 86	60 - 130	<20
Endrin	0.05	ND	71 / 78	60 - 130	<20
DDT	0.05	0.04	97 / 94	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00595	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Lindane	0.052	0.049	4.8	≤ 20%	117%
Heptachlor	0.034	0.038	11.6	≤ 20%	82%
Aldrin	0.037	0.038	3.5	≤ 20%	91%
Dieldrin	0.039	0.043	10.8	≤ 20%	88%
Endrin	0.036	0.039	8.3	≤ 20%	107%
DDT	0.090	0.088	2.1	≤ 20%	74%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: Background due to sample matrix

## **ATTACHMENT 3 – 12339 Promenade Avenue**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
**Bold** numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

(8542)

(8550)

(8560)

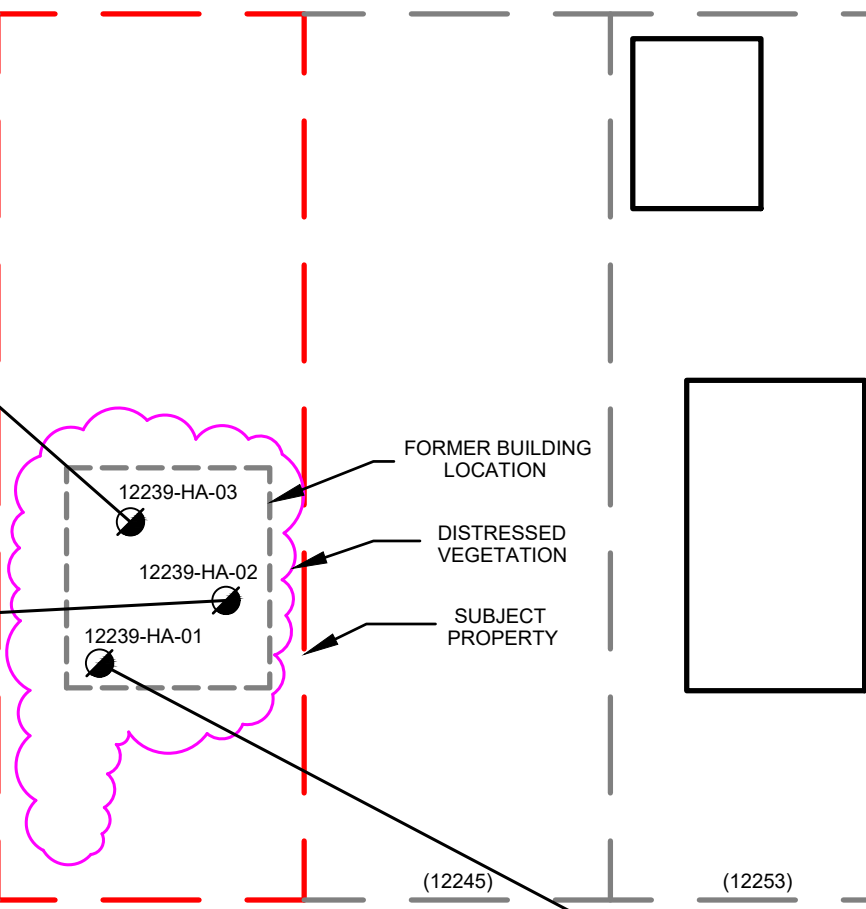
(8570)

ALLEY

12239-HA-03	2-3
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCS</b>	
SVOCS	ND
<b>Metals</b>	
Arsenic	5,200
Barium	100,000
Cadmium	300
Chromium	20,000
Copper	15,000
Lead, Total	17,000
Mercury (Total)	60
Selenium	240
Silver	<100
Zinc	74,000
<b>Inorganic Analysis</b>	
Chloride	<20,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
4,4-DDE	21
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

12239-HA-02	2-3
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCS</b>	
SVOCS	ND
<b>Metals</b>	
Arsenic	4,300
Barium	92,000
Cadmium	350
Chromium	20,000
Copper	16,000
Lead, Total	38,000
Mercury (Total)	55
Selenium	350
Silver	<100
Zinc	77,000
<b>Inorganic Analysis</b>	
Chloride	<20,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND

12239-HA-01	1-2
5/13/22	
<b>VOCs</b>	
VOCs	ND
<b>SVOCS</b>	
SVOCS	ND
<b>Metals</b>	
Arsenic	5,800
Barium	49,000
Cadmium	220
Chromium	13,000
Copper	13,000
Lead, Total	13,000
Mercury (Total)	<50
Selenium	<200
Silver	<100
Zinc	46,000
<b>Inorganic Analysis</b>	
Chloride	110,000
<b>Herbicides</b>	
Herbicides	ND
<b>Pesticides</b>	
Pesticides	ND
<b>PCBs</b>	
PCBs	ND



(12225)

(12245)

(12253)

PROMENADE AVENUE

**LEGEND:**



12239-HA-00



HAND AUGER SOIL SAMPLE LOCATION



(12238)

(12246)

(12254)



**Environmental Services**

1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207

(248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results

12239 Promenade Avenue,  
 Detroit, Michigan 48213

Checked:  
 K. Robins

Scale:  
 See Legend

Date:  
 5-25-2022

Figure:  
 1

Drawn:  
 A. Smak

Project Number:  
 01661734-3

Table 1 – Summary of Soil Analytical Results

SITE NAME		12339 Promenade, Detroit, MI											
Project No.		0166-1734-3											
COMPOUND		Chemical Abstract Service Number (CAS)	EGLE Residential Cleanup Criteria (µg/kg)								12239- HA-01	12339- HA-02	12339- HA-03
			Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact			
Sample interval (feet)	Date Sampled	Residential Drinking Water Protection Criteria		Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	1-2'	2-3'	2-3'
<b>VOCs</b>													
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND
<b>SVOCs</b>													
SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND
<b>Metals</b>													
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	5,800	4,300	5,200
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	49,000	92,000	100,000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	220	350	300
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	13,000	20,000	20,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	13,000	16,000	15,000
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	13,000	38,000	17,000
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	55	60
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	<200	350	240
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	46,000	77,000	74,000
<b>Inorganic Analysis</b>													
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	110,000	<20,000	<20,000
<b>Herbicides</b>													
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Pesticides/PCBs</b>													
4,4-DDE	72559	NA	NLL	NLL	NLV	39,000	NLV	3.20E+07	45,000	NA	<20	<20	21
Remaining Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>PCBs</b>													
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND

## FOOTNOTES

**Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria**

**Bold numbers indicates detection above laboratory method detection limits (MDLs)**

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Survey Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001).

Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
12339 Promenade Avenue,  
Detroit, Wayne County, MI 48213



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface





The City of Detroit / Demolition Department  
12339 Promenade Avenue,  
Detroit, Wayne County, MI 48213



View of Ground Surface



View of Ground Surface



View of Ground Surface



View of Ground Surface



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 10:05  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: ~2' BGS

BORING/PIT No: **12239-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 12239 Promenade Avenue, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: M. Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
			----- dark, brown, moist	
1		100%		0.0
			----- brick and concrete debris	
2		20-50%		0.0
			End of Boring ~ 2' BGS - Refusal	
3				
4				
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 10:10  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **12239-HA-02**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 12239 Promenade Avenue, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: M. Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
			----- dark, brown, moist	
1				0.0
2		100%		0.0
3				0.0
4				0.0
			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 10:20  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **12239-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 12239 Promenade Avenue, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: M. Angellotti/A. Smak  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark, brown, moist	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	0.0
5				
6				
7				
8				
9				
10				

May 24, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 12239 Promenade Avenue, Detroit, MI  
0166-1734

Dear Mr. Robins :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/13/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81796 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.





**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00601** Project Number: **0166-1734**  
 Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5800	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	49000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	220	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	13000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	13000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	13000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	46000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	110000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
BA Sample ID: **CR00601** Project Number: **0166-1734**  
Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
BA Sample ID: **CR00601** Project Number: **0166-1734**  
Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
BA Sample ID: **CR00601** Project Number: **0166-1734**  
Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81796**

Project Name: **12239 Promenade Avenue, Detroit, MI**

BA Sample ID: **CR00601**

Project Number: **0166-1734**

Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022





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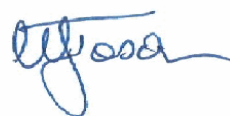
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 37483 Interchange Drive  
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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00601** Project Number: **0166-1734**  
 Sample ID: **12239-HA-01 (1-2')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	87	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/24/2022





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BA Report Number: **81796**

Project Name: **12239 Promenade Avenue, Detroit, MI**

BA Sample ID: **CR00602**

Project Number: **0166-1734**

Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4300	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	92000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	350	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	20000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	16000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	38000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	55	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	350	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	77000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81796**

Project Name: **12239 Promenade Avenue, Detroit, MI**

BA Sample ID: **CR00602**

Project Number: **0166-1734**

Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81796**

Project Name: **12239 Promenade Avenue, Detroit, MI**

BA Sample ID: **CR00602**

Project Number: **0166-1734**

Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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 Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00602** Project Number: **0166-1734**  
 Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00602** Project Number: **0166-1734**  
 Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022





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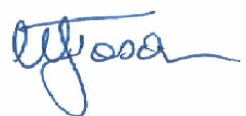
To: Intertek - PSI  
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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00602** Project Number: **0166-1734**  
 Sample ID: **12239-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	81	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/24/2022





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 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00603** Project Number: **0166-1734**  
 Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5200	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	100000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	300	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	20000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	15000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	17000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	60	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	240	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	74000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	21	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00603** Project Number: **0166-1734**  
 Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
BA Sample ID: **CR00603** Project Number: **0166-1734**  
Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
BA Sample ID: **CR00603** Project Number: **0166-1734**  
Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00603** Project Number: **0166-1734**  
 Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022





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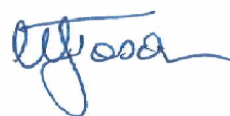
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BA Report Number: **81796** Project Name: **12239 Promenade Avenue, Detroit, MI**  
 BA Sample ID: **CR00603** Project Number: **0166-1734**  
 Sample ID: **12239-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	82	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/24/2022







BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S1

Matrix Spike Lab ID: CR00604

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	111642	106338	4.9	100000	96.9	91.6	14704	<500	104.0	98.9
Copper	114112	106442	7.0	100000	102.5	94.9	11587	<1000	108.1	92.0
Zinc	158486	153320	3.3	100000	102.1	96.9	56430	<1000	108.8	104.6
Arsenic	87353	88401	1.2	100000	83.5	84.5	3862	<100	107.2	100.4
Selenium	93509	78968	16.9	100000	93.3	78.7	258	<100	102.4	101.5
Silver	815	787	3.5	1000	77.2	74.4	43	<100	98.9	108.5
Cadmium	103375	99279	4.0	100000	103.1	99.0	269	<50	107.6	103.0
Barium	153569	148394	3.4	100000	97.2	92.0	56406	<100	108.5	101.6
Lead	129377	121846	6.0	100000	110.1	102.6	19295	<1000	111.6	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_

**REPRESENTATIVE BATCH QUALITY CONTROL**  
**Accuracy & Precision**

**Analyst:** BY/TP

**Parameter:** Herbicide

**Analysis Date:** 5/19/2022

**Method Reference:** EPA 8151

**Matrix:** Soil

**Batch:** 05/17/22 BYMB

<b>SPIKE - ACCURACY</b>					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCPA (Surrogate)	1.0	ND	95 / 96	50 - 130	105%
Silvex	0.2	ND	92 / 90	50 - 130	<50
<b>SPIKE - PRECISION</b>					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCPA (Surrogate)	0.95	0.96	1.3	≤ 20%	103%
Silvex	0.184	0.180	2.2	≤ 20%	78%
<b>MISCELLANEOUS</b>					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

**COMMENTS:** \_\_\_\_\_

## Ion Chromatograph EPA Method 300.0

Date: 5/18/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,094	102	2,888	3,060	94	90-110%	µg/L
Chloride	<1000	50,000	49,653	99	68,444	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,006	101				90-110%	µg/L
Nitrate	<10	1,000	985	98	6,348	6,240	102	90-110%	µg/L
Sulfate	<1000	50,000	49,470	99	15,313	15,300	100	90-110%	µg/L

Sample ID# 0606

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	445	5,000	5,467	5,296	100	97	3.2	80-120%	µg/L
Chloride	12,651	50,000	62,226	60,323	99	95	3.1	80-120%	µg/L
Nitrite	2	1,000	1,011	971	101	97	4.0	80-120%	µg/L
Nitrate	5	1,000	986	949	98	94	3.8	80-120%	µg/L
Sulfate	9,976	50,000	59,462	57,462	99	95	3.4	80-120%	µg/L

Sample ID# 0862

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	68	5,000	5,143	5,052	101	100	1.8	80-120%	µg/L
Chloride	5,639	50,000	55,486	54,258	100	97	2.2	80-120%	µg/L
Nitrite	0	1,000	1,009	989	101	99	2.0	80-120%	µg/L
Nitrate	0	1,000	967	947	97	95	2.1	80-120%	µg/L
Sulfate	166,686	50,000	216,741	211,767	100	90	2.3	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L



# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/18/2022

Std ID: #4420/#4436

Inst./Detec: HP5973/GC-MS

Laboratory ID#: CR00595

Matrix: soil

Analyst: RG

Ext.date: 5/17/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Sp[i]ke 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr. recov.	LCS-MStd	Method Blank
2-Fluorophenol	68	72	5.7	100	70	33-115	81	86	82
D5-Phenol	73	80	9.2	100	77	34-122	91	90	91
D5-Nitrobenzene	61	62	1.6	100	62	23-132	76	76	73
2-Fluorobiphenyl	62	61	1.6	100	62	20-126	74	77	73
2,4,6-Tribromophenol	82	84	2.4	100	83	23-132	91	94	79
D14-Terphenyl	52	50	3.9	100	51	27-142	61	69	65
<b>COMPOUNDS</b>									
Phenol	67	71	5.8	100	69	30-159	ND	74	<330
2-Chlorophenol	73	76	4.0	100	75	48-124	ND	83	<330
1,4-Dichlorobenzene	64	65	1.6	100	65	36-105	ND	73	<330
2-Methylphenol	74	83	11.5	100	79	45-117	ND	87	<330
N-nitrosodipropylamine	74	78	5.3	100	76	44-129	ND	85	<330
1,2,4-Trichlorobenzene	62	61	1.6	100	62	32-109	ND	69	<330
4-Chloro-3-methylphenol	86	96	11.0	100	91	23-164	ND	99	<330
2-Methylnaphthalene	69	71	2.9	100	70	21-130	ND	77	<330
2,4,5-Trichlorophenol	99	105	5.9	100	102	5-159	ND	111	<330
Acenaphthene	71	73	2.8	100	72	43-125	ND	79	<330
3-Nitroaniline	78	83	6.2	100	81	27-139	ND	88	<830
Dibenzofuran	69	72	4.3	100	71	32-138	ND	78	<330
2,4-Dinitrotoluene	76	81	6.4	100	79	28-137	ND	90	<330
4-Nitrophenol	117	130	10.5	100	124	5-181	ND	140	<830
Pentachlorophenol	79	77	2.6	100	78	5-188	ND	85	<800
DI-n-butylphthalate	80	78	2.5	100	79	34-128	ND	91	<330
Pyrene	58	59	1.7	100	59	19-159	ND	65	<330

\* Matrix Spike Precision +/-20 RPD

Comments:



# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 18, 2022 Spike Std. ID: 4486 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00686 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	48.2	44.3	8.4	50	96	89	70-130	98%	97%	99%
d8-Toluene	48.3	48.7	0.8	50	97	97	70-130	103%	99%	98%
4-Bromofluorobenzene	48.1	49.5	2.9	50	96	99	70-130	93%	94%	103%
<b>COMPOUNDS</b>										
1,1- Dichloroethene	48.6	48.7	0.1	50	97%	97%	70-130	<1	109%	<1
1,1- Dichloroethane	45.4	45.0	1.1	50	91%	90%	70-130	<1	105%	<1
Chloroform	42.6	41.0	3.8	50	85%	82%	70-130	<1	101%	<1
1,2- Dichloroethane	46.4	42.7	8.3	50	93%	85%	70-130	<1	101%	<1
Carbon tetrachloride	41.4	42.4	2.3	50	83%	85%	70-130	<1	104%	<1
1,2- Dichloropropane	49.7	47.3	4.8	50	99%	95%	70-130	<1	116%	<1
cis- 1,3 -dichloropropene	43.2	44.0	1.8	50	86%	88%	70-130	<1	110%	<1
Trichloroethene	45.9	49.3	7.2	50	92%	99%	70-130	<1	98%	<1
Dibromochloromethane	43.1	43.9	1.9	50	86%	88%	70-130	<1	103%	<1
1,1,2- Trichloroethane	44.3	45.2	2.0	50	89%	90%	70-130	<1	99%	<1
Tetrachloroethane	39.9	41.0	2.7	50	80%	82%	70-130	<1	106%	<1
1,1,2,2 -Tetrachloroethane	40.3	39.2	2.7	50	81%	78%	70-130	<1	107%	<1
Chlorobenzene	43.2	46.6	7.5	50	86%	93%	70-130	<1	94%	<1
1,3- Dichlorobenzene	44.3	45.8	3.4	50	89%	92%	70-130	<1	99%	<1
1,4- Dichlorobenzene	45.2	46.2	2.3	50	90%	92%	70-130	<1	96%	<1
1,2-Dichlorobenzene	45.2	46.4	2.7	50	90%	93%	70-130	<1	98%	<1

ug/L is equivalent to ppb

Comments: \_\_\_\_\_

# REPRESENTATIVE BATCH QUALITY CONTROL

## Accuracy & Precision

Analyst: LT

Parameter: Mercury

Analysis Date: 05/17/22

Method Reference: 245.1/7470/7471

Matrix: SOIL

Batch: S1

SPIKE - ACCURACY					
Laboratory ID	Spike Concentration (ug/Kg)	Background (ug/Kg)	Recoveries (%)	Acceptable Range (%)	Method Blank Concentration (ug/Kg)
CR00599	100	30.4	122 / 122	70 - 130	<50
SPIKE - ACCURACY					
Laboratory ID	Observed A (ug/Kg)	Observed B (ug/Kg)	RPD (%)	Acceptable Range (%)	
CR00599	152.6	151.9	0.4	0 - 20	
MISCELLANEOUS					
	Standard ID #	Recovery (%)	Acceptable Range (%)		
Independent Secondary Reference Material:	Spex 051722	107.5	90 - 110		
Method Standard (Laboratory Control Spike):	Hg- 051722	97.3	80 - 120		

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/18/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCB (Surrogate)	0.50	ND	111 / 115	50 - 130	79%
Aroclor 1260	1.0	ND	78 / 78	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Aroclor 1260	0.78	0.78	0.6	≤ 20%	96%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/18/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00595	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	111 / 115	60 - 130	79%
Lindane	0.05	ND	103 / 99	60 - 130	<20
Heptachlor	0.05	ND	68 / 77	60 - 130	<20
Aldrin	0.05	ND	73 / 76	60 - 130	<20
Dieldrin	0.05	ND	77 / 86	60 - 130	<20
Endrin	0.05	ND	71 / 78	60 - 130	<20
DDT	0.05	0.04	97 / 94	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00595	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Lindane	0.052	0.049	4.8	≤ 20%	117%
Heptachlor	0.034	0.038	11.6	≤ 20%	82%
Aldrin	0.037	0.038	3.5	≤ 20%	91%
Dieldrin	0.039	0.043	10.8	≤ 20%	88%
Endrin	0.036	0.039	8.3	≤ 20%	107%
DDT	0.090	0.088	2.1	≤ 20%	74%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: Background due to sample matrix

## **ATTACHMENT 4 – 15065 Prevost Street**

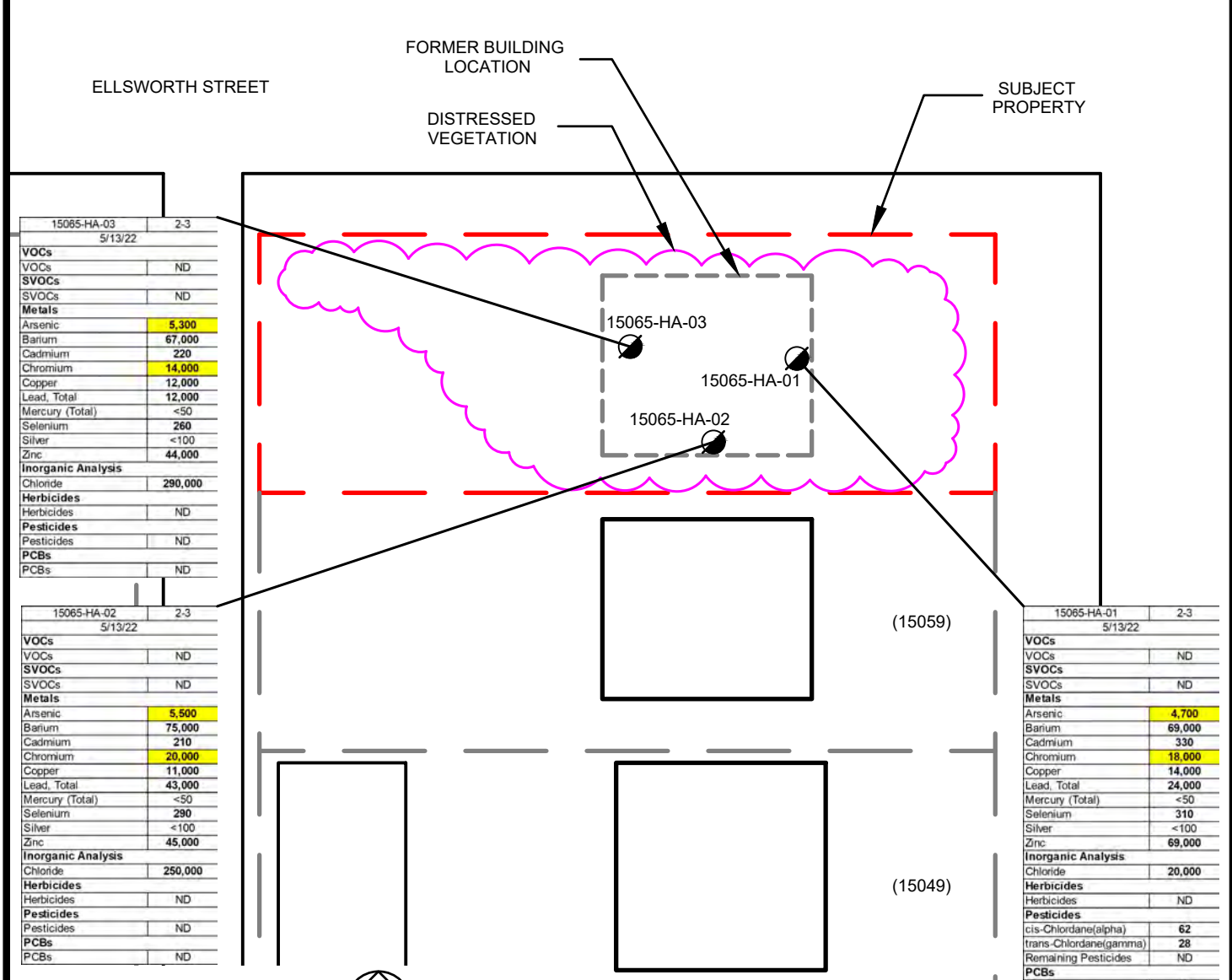
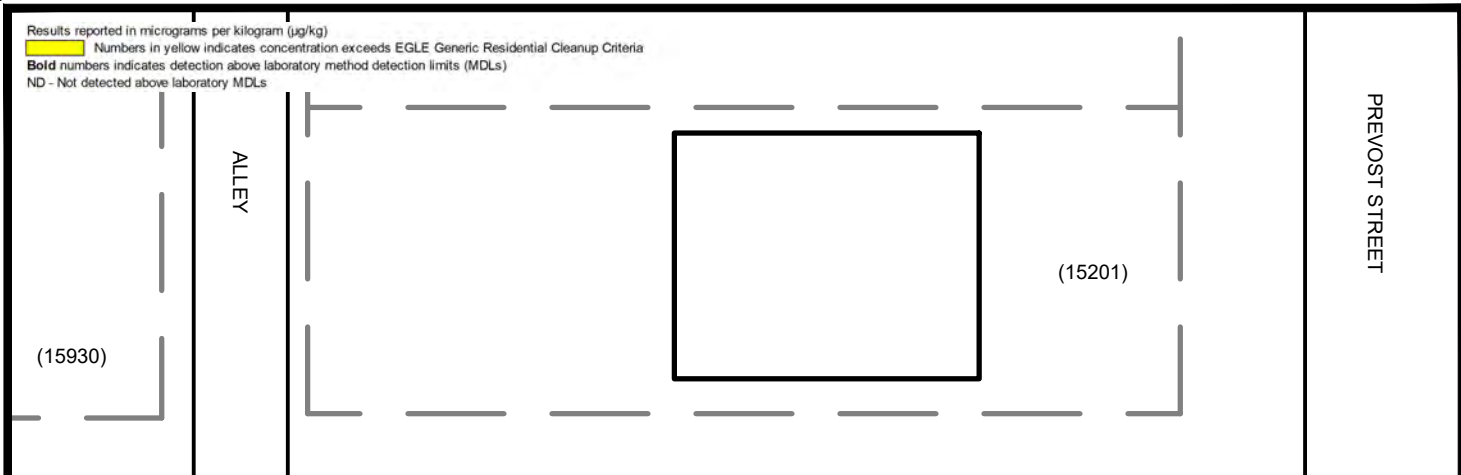
Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
 Bold numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs



15065-HA-03		2-3
5/13/22		
VOCs		ND
SVOCs		ND
<b>Metals</b>		
Arsenic	5,300	
Barium	67,000	
Cadmium	220	
Chromium	14,000	
Copper	12,000	
Lead, Total	12,000	
Mercury (Total)	<50	
Selenium	260	
Silver	<100	
Zinc	44,000	
<b>Inorganic Analysis</b>		
Chloride	290,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

15065-HA-02		2-3
5/13/22		
VOCs		ND
SVOCs		ND
<b>Metals</b>		
Arsenic	5,500	
Barium	75,000	
Cadmium	210	
Chromium	20,000	
Copper	11,000	
Lead, Total	43,000	
Mercury (Total)	<50	
Selenium	290	
Silver	<100	
Zinc	45,000	
<b>Inorganic Analysis</b>		
Chloride	250,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

15065-HA-01		2-3
5/13/22		
VOCs		ND
SVOCs		ND
<b>Metals</b>		
Arsenic	4,700	
Barium	69,000	
Cadmium	330	
Chromium	18,600	
Copper	14,000	
Lead, Total	24,000	
Mercury (Total)	<50	
Selenium	310	
Silver	<100	
Zinc	69,000	
<b>Inorganic Analysis</b>		
Chloride	20,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
cis-Chlordane(alpha)	62	
trans-Chlordane(gamma)	28	
Remaining Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

**LEGEND:**

15065-HA-00



HAND AUGER SOIL SAMPLE LOCATION



**Environmental Services**  
 1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207  
 (248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results

15065 Prevost Street,  
 Detroit, Michigan 48227

Checked:  
 K. Robins

Scale:  
 See Legend

Date:  
 5-25-2022

Figure:  
 1

Drawn:  
 A.Smak

Project Number:  
**01661734-4**



Table 1 – Summary of Soil Analytical Results

SITE NAME		15065 Prevost, Detroit, MI											
Project No.		0166-1734-6											
COMPOUND		Chemical Abstract Service Number (CAS)	EGLE Residential Cleanup Criteria (µg/kg)								15065- HA-01	15065- HA-02	15065- HA-03
			Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact			
Sample interval (feet)	Date Sampled	Residential Drinking Water Protection Criteria		Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	2-3	2-3	2-3
<b>VOCs</b>													
Remaining VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>													
Remaining SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Metals</b>													
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	4,700	5,500	5,300
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	69,000	75,000	67,000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	330	210	220
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	18,000	20,000	14,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	14,000	11,000	12,000
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	24,000	43,000	12,000
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	<50
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	310	290	260
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	69,000	45,000	44,000
<b>Inorganic Analysis</b>													
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	20,000	250,000	290,000
<b>Herbicides</b>													
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Pesticides</b>													
cis-Chlordane(alpha)	5103719	NA	NLL	NLL	(J)	13,000	(J)	(J)	(J)	NA	62	<25	<25
trans-Chlordane(gamma)	5103742	NA	NLL	NLL	(J)	13,000	(J)	(J)	(J)	NA	28	<25	<25
Chlordane (J)	57749	NA	NLL	NLL	1.10E+07	13,000	1.20E+06	3.10E+07	31,000	NA	90	<50	<50
Remaining Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>PCBs</b>													
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND

## FOOTNOTES



Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria

Numbers in green indicates concentrations exceeds only Vapor Intrusion Screening Levels.

**Bold** numbers indicates detection above laboratory method detection limits (MDLs)

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion.

Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001). Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.

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The City of Detroit / Demolition Department  
15065 Prevost Street,  
Detroit, Wayne County, MI 48227



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface





**The City of Detroit / Demolition Department  
15065 Prevost Street,  
Detroit, Wayne County, MI 48227**



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 11:00  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **15065-HA-01**  
 PROJECT NAME **16 Residential Properties, Detroit**  
 LOCATION: **15065 Prevost Street, Detroit**  
 DRILLING CO: **PSI**  
 DRILL CREW: **M. Angellotti/A. Smak**  
 DRILLING/TRENCHING METHOD: **Hand Auger**

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			dark brown, moist with trace gravel	0.0
2		100%	brown	0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				



# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 11:10  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **15065-HA-02**  
 PROJECT NAME **16 Residential Properties, Detroit**  
 LOCATION: **15065 Prevost Street, Detroit**  
 DRILLING CO: **PSI**  
 DRILL CREW: **M. Angellotti/A. Smak**  
 DRILLING/TRENCHING METHOD: **Hand Auger**

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			dark, brown, moist	0.0
2		100%	trace gravel	0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: M. Angellotti  
 DATE: May 13, 2022  
 TIME: 11:15  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **15065-HA-03**  
 PROJECT NAME **16 Residential Properties, Detroit**  
 LOCATION: **15065 Prevost Street, Detroit**  
 DRILLING CO: **PSI**  
 DRILL CREW: **M. Angellotti/A. Smak**  
 DRILLING/TRENCHING METHOD: **Hand Auger**

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark, brown, moist with trace gravel	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

May 24, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 15065 Prevost Street, Detroit, MI  
0166-1734

Dear Mr. Robins :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/13/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81797 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00604**

Project Number: **0166-1734**

Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4700	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	69000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	330	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	18000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	14000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	24000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	310	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	69000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	130000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	62	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



**Brighton Analytical LLC**  
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e-mail:bai-brighton@sbcglobal.net  
EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00604**

Project Number: **0166-1734**

Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	<b>28</b>	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	<b>Extracted</b>			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	<b>Extracted</b>			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022



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EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00604**

Project Number: **0166-1734**

Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00604**

Project Number: **0166-1734**

Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797** Project Name: **15065 Prevost Street, Detroit, MI**  
 BA Sample ID: **CR00604** Project Number: **0166-1734**  
 Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00604**

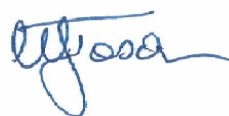
Project Number: **0166-1734**

Sample ID: **15065-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	82	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/24/2022



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Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797** Project Name: **15065 Prevost Street, Detroit, MI**  
 BA Sample ID: **CR00605** Project Number: **0166-1734**  
 Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5500	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	75000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	210	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	20000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	43000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	290	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	45000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	250000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00605**

Project Number: **0166-1734**

Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00605**

Project Number: **0166-1734**

Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00605**

Project Number: **0166-1734**

Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



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 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797** Project Name: **15065 Prevost Street, Detroit, MI**  
 BA Sample ID: **CR00605** Project Number: **0166-1734**  
 Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00605**

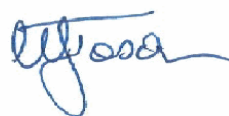
Project Number: **0166-1734**

Sample ID: **15065-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	85	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/24/2022



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Sample Date: 05/13/2022  
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 37483 Interchange Drive  
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BA Report Number: **81797** Project Name: **15065 Prevost Street, Detroit, MI**  
 BA Sample ID: **CR00606** Project Number: **0166-1734**  
 Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5300	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	67000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	220	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	14000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	12000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	12000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/17/2022
Total Selenium	260	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	44000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Digested			7470/7471	LT	05/17/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	290000	ug/Kg	20000	SW846 9056	RM	05/18/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022



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Sample Date: 05/13/2022  
Submit Date: 05/13/2022  
Report Date: 05/24/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00606**

Project Number: **0166-1734**

Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/18/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/18/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/18/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/18/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/18/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/18/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/16/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/19/2021
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/19/2021
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/19/2021
Herbicide solid (extraction)	Extracted			8151/615	BY	05/17/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/18/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00606**

Project Number: **0166-1734**

Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/18/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/18/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/18/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022





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BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00606**

Project Number: **0166-1734**

Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/18/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/18/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/18/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/18/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/17/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/18/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797** Project Name: **15065 Prevost Street, Detroit, MI**  
 BA Sample ID: **CR00606** Project Number: **0166-1734**  
 Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/18/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/18/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/18/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/18/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/18/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022

Sample Date: 05/13/2022  
 Submit Date: 05/13/2022  
 Report Date: 05/24/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81797**

Project Name: **15065 Prevost Street, Detroit, MI**

BA Sample ID: **CR00606**

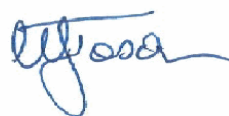
Project Number: **0166-1734**

Sample ID: **15065-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/18/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/18/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/18/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/18/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/13/2022
%Solid	86	%		ASTM D2216	MH	05/16/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/24/2022



**Brighton Analytical, L.L.C™**

2105 Pless Drive  
Brighton, MI 48114  
Phone: 810-229-7575 Fax: 810-229-8650

**PROJECT NAME:**  
(4 SPACES MAXIMUM)  
15065 Prevost Street, Detroit, MI

**PROJECT NUMBER:**  
(2 SPACES MAXIMUM)  
0166-1734

**P.O. NUMBER:** Quote: RFQ-042522QQ

**Sample collected by:** A. Samk

**if RUSH approved by:**

REQUESTED TURNAROUND: (X BOX WITH TAT NEEDED)  
 Default TAT Standard: 5 - 10 Business days  
 RUSH: 1 Business day (verify with lab)  
 RUSH: 2 Business days  
 RUSH: 3 Business days  
 RUSH SURCHARGE  
 1 DAY=3X COST 2 DAY = 2X COST 3 DAY = 1.5X COST

1	<input checked="" type="checkbox"/>
2	<input type="checkbox"/>
3	<input type="checkbox"/>

**Sample Description**  
35 Characters Limit

Brighton ID #	Sample Description	Time	Date
15065-HA-01 (2-3)		10:20	05/13/22
15065-HA-02 (2-3)		10:25	5/13/2022
15065-HA-03 (2-3)		10:30	05/13/22

BA PROJECT #:

81797

ABBREVIATIONS FOR SAMPLE MATRIX

S = Solid  
 L = Liquid  
 DW = Drinking H<sub>2</sub>O  
 WW = Wastewater  
 O = Oil  
 P = Wipe  
 A = Air (Tedlar Bag)  
 F = Filter  
 T = Tube  
 M = Misc GW=Groundwater  
 SW = Surface Water

**Container Type & Quantity**

VOA'S (PRES)	VOA'S (UNPRES)	HDPE UNPRESERVED	HDPE HNO <sub>3</sub> FILTERED	HDPE HNO <sub>3</sub> UNFILTERED	HDPE H <sub>2</sub> SO <sub>4</sub>	HDPE NaOH	AMBER GLASS	AMBER GLASS H <sub>2</sub> SO <sub>4</sub>	GLASS, NO PRESERVATIVE	MEOH Preserved: (Field or Lab Preserved)
1									1	1
1									1	1
1									1	1

**Sample Matrix**

VOCS (8260B)	SVOCs (8270/EPA 625)	MI 10 Metals (6020/7471)	PCBs (8082)	Chloride (9056)	Pesticides (EPA 608)	Herbicides (EPA 615)
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

**Analysis Requested/Method**

PAGE: 1 OF 1

**REPORT RESULTS TO:**  
 Intertek PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335

**Attn:** Kevin Wozniak  
 Kennan Robins  
**PHONE:** 248-955-1138  
**FAX:**  
**EMAIL:** kevin.wozniak@intertek.com  
 kennan.robins@intertek.com

Sample received within holding time? yes  no   
 Temperature of samples °C  °F   
 pH verified in log? yes  no   
 Headspace/bubbles in VOAS? yes  no   
 Sample containers and COC match? yes  no

**BILLING ADDRESS (IF REQUIRED)**

**Drinking Water:**  
 Fax to LCHD? yes  no   
 Chlorinated Water Supply? yes  no   
 MCL Failure yes  no   
 Client Notified (date/time/initials):

**Special Instructions:** Standard Turn around Time

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
1	Adam Smak	<i>[Signature]</i>	5/13/2022	1:33 <sup>3</sup>					
2				4					





BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S1

Matrix Spike Lab ID: CR00604

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	111642	106338	4.9	100000	96.9	91.6	14704	<500	104.0	98.9
Copper	114112	106442	7.0	100000	102.5	94.9	11587	<1000	108.1	92.0
Zinc	158486	153320	3.3	100000	102.1	96.9	56430	<1000	108.8	104.6
Arsenic	87353	88401	1.2	100000	83.5	84.5	3862	<100	107.2	100.4
Selenium	93509	78968	16.9	100000	93.3	78.7	258	<100	102.4	101.5
Silver	815	787	3.5	1000	77.2	74.4	43	<100	98.9	108.5
Cadmium	103375	99279	4.0	100000	103.1	99.0	269	<50	107.6	103.0
Barium	153569	148394	3.4	100000	97.2	92.0	56406	<100	108.5	101.6
Lead	129377	121846	6.0	100000	110.1	102.6	19295	<1000	111.6	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_



## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Herbicide

Analysis Date: 5/19/2022

Method Reference: EPA 8151

Matrix: Soil

Batch: 05/17/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCPA (Surrogate)	1.0	ND	95 / 96	50 - 130	105%
Silvex	0.2	ND	92 / 90	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCPA (Surrogate)	0.95	0.96	1.3	≤ 20%	103%
Silvex	0.184	0.180	2.2	≤ 20%	78%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

COMMENTS: \_\_\_\_\_

Representative Batch Precision And Accuracy Quality Control Summary

## Ion Chromatograph EPA Method 300.0

Date: 5/18/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,094	102	2,888	3,060	94	90-110%	µg/L
Chloride	<1000	50,000	49,653	99	68,444	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,006	101				90-110%	µg/L
Nitrate	<10	1,000	985	98	6,348	6,240	102	90-110%	µg/L
Sulfate	<1000	50,000	49,470	99	15,313	15,300	100	90-110%	µg/L

Sample ID# 0606

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	445	5,000	5,467	5,296	100	97	3.2	80-120%	µg/L
Chloride	12,651	50,000	62,226	60,323	99	95	3.1	80-120%	µg/L
Nitrite	2	1,000	1,011	971	101	97	4.0	80-120%	µg/L
Nitrate	5	1,000	986	949	98	94	3.8	80-120%	µg/L
Sulfate	9,976	50,000	59,462	57,462	99	95	3.4	80-120%	µg/L

Sample ID# 0862

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	68	5,000	5,143	5,052	101	100	1.8	80-120%	µg/L
Chloride	5,639	50,000	55,486	54,258	100	97	2.2	80-120%	µg/L
Nitrite	0	1,000	1,009	989	101	99	2.0	80-120%	µg/L
Nitrate	0	1,000	967	947	97	95	2.1	80-120%	µg/L
Sulfate	166,686	50,000	216,741	211,767	100	90	2.3	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/18/2022

Std ID: #4420/#4436

Inst./Detec: HP5973/GC-MS

Laboratory ID#: CR00595

Matrix: soil

Analyst: RG

Ext.date: 5/17/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Spjike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr.recov.	LCS-MStd	Method Blank
2-Fluorophenol	68	72	5.7	100	70	33-115	81	86	82
D5-Phenol	73	80	9.2	100	77	34-122	91	90	91
D5-Nitrobenzene	61	62	1.6	100	62	23-132	76	76	73
2-Fluorobiphenyl	62	61	1.6	100	62	20-126	74	77	73
2,4,6-Tribromophenol	82	84	2.4	100	83	23-132	91	94	79
D14-Terphenyl	52	50	3.9	100	51	27-142	61	69	65
<b>COMPOUNDS</b>									
Phenol	67	71	5.8	100	69	30-159	ND	74	<330
2-Chlorophenol	73	76	4.0	100	75	48-124	ND	83	<330
1,4-Dichlorobenzene	64	65	1.6	100	65	36-105	ND	73	<330
2-Methylphenol	74	83	11.5	100	79	45-117	ND	87	<330
N-nitrosodipropylamine	74	78	5.3	100	76	44-129	ND	85	<330
1,2,4-Trichlorobenzene	62	61	1.6	100	62	32-109	ND	69	<330
4-Chloro-3-methylphenol	86	96	11.0	100	91	23-164	ND	99	<330
2-Methylnapthalene	69	71	2.9	100	70	21-130	ND	77	<330
2,4,5-Trichlorophenol	99	105	5.9	100	102	5-159	ND	111	<330
Acenaphthene	71	73	2.8	100	72	43-125	ND	79	<330
3-Nitroaniline	78	83	6.2	100	81	27-139	ND	88	<830
Dibenzofuran	69	72	4.3	100	71	32-138	ND	78	<330
2,4- Dinitrotoluene	76	81	6.4	100	79	28-137	ND	90	<330
4 - Nitrophenol	117	130	10.5	100	124	5-181	ND	140	<830
Pentachlorophenol	79	77	2.6	100	78	5-188	ND	85	<800
DI-n-butylphthalate	80	78	2.5	100	79	34-128	ND	91	<330
Pyrene	58	59	1.7	100	59	19-159	ND	65	<330

\* Matrix Spike Precision +/-20 RPD

Comments:

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 18, 2022 Spike Std. ID: 4486 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00686 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	48.2	44.3	8.4	50	96	89	70-130	98%	97%	99%
d8-Toluene	48.3	48.7	0.8	50	97	97	70-130	103%	99%	98%
4-Bromofluorobenzene	48.1	49.5	2.9	50	96	99	70-130	93%	94%	103%
<b>COMPOUNDS</b>										
1,1- Dichloroethene	48.6	48.7	0.1	50	97%	97%	70-130	<1	109%	<1
1,1- Dichloroethane	45.4	45.0	1.1	50	91%	90%	70-130	<1	105%	<1
Chloroform	42.6	41.0	3.8	50	85%	82%	70-130	<1	101%	<1
1,2- Dichloroethane	46.4	42.7	8.3	50	93%	85%	70-130	<1	101%	<1
Carbon tetrachloride	41.4	42.4	2.3	50	83%	85%	70-130	<1	104%	<1
1,2- Dichloropropane	49.7	47.3	4.8	50	99%	95%	70-130	<1	116%	<1
cis- 1,3 -dichloropropene	43.2	44.0	1.8	50	86%	88%	70-130	<1	110%	<1
Trichloroethene	45.9	49.3	7.2	50	92%	99%	70-130	<1	98%	<1
Dibromochloromethane	43.1	43.9	1.9	50	86%	88%	70-130	<1	103%	<1
1,1,2- Trichloroethane	44.3	45.2	2.0	50	89%	90%	70-130	<1	99%	<1
Tetrachloroethane	39.9	41.0	2.7	50	80%	82%	70-130	<1	106%	<1
1,1,2,2 -Tetrachloroethane	40.3	39.2	2.7	50	81%	78%	70-130	<1	107%	<1
Chlorobenzene	43.2	46.6	7.5	50	86%	93%	70-130	<1	94%	<1
1,3- Dichlorobenzene	44.3	45.8	3.4	50	89%	92%	70-130	<1	99%	<1
1,4- Dichlorobenzene	45.2	46.2	2.3	50	90%	92%	70-130	<1	96%	<1
1,2-Dichlorobenzene	45.2	46.4	2.7	50	90%	93%	70-130	<1	98%	<1

ug/L is equivalent to ppb

Comments: \_\_\_\_\_

# REPRESENTATIVE BATCH QUALITY CONTROL

## Accuracy & Precision

Analyst: LT Parameter: Mercury  
Analysis Date: 05/17/22 Method Reference: 245.1/7470/7471  
Matrix: SOIL Batch: S1

### SPIKE - ACCURACY

Laboratory ID	Spike Concentration (ug/Kg)	Background (ug/Kg)	Recoveries (%)	Acceptable Range (%)	Method Blank Concentration (ug/Kg)
CR00599	100	30.4	122 / 122	70 - 130	<50

### SPIKE - ACCURACY

Laboratory ID	Observed A (ug/Kg)	Observed B (ug/Kg)	RPD (%)	Acceptable Range (%)	
CR00599	152.6	151.9	0.4	0 - 20	

### MISCELLANEOUS

	Standard ID #	Recovery (%)	Acceptable Range (%)	
Independent Secondary Reference Material:	Spex 051722	107.5	90 - 110	
Method Standard (Laboratory Control Spike):	Hg- 051722	97.3	80 - 120	

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/18/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00595					
DCB (Surrogate)	0.50	ND	111 / 115	50 - 130	79%
Aroclor 1260	1.0	ND	78 / 78	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00595					
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Aroclor 1260	0.78	0.78	0.6	≤ 20%	96%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_



## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/18/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/16/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00595	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	111 / 115	60 - 130	79%
Lindane	0.05	ND	103 / 99	60 - 130	<20
Heptachlor	0.05	ND	68 / 77	60 - 130	<20
Aldrin	0.05	ND	73 / 76	60 - 130	<20
Dieldrin	0.05	ND	77 / 86	60 - 130	<20
Endrin	0.05	ND	71 / 78	60 - 130	<20
DDT	0.05	0.04	97 / 94	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00595	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.55	0.57	3.4	≤ 20%	100%
Lindane	0.052	0.049	4.8	≤ 20%	117%
Heptachlor	0.034	0.038	11.6	≤ 20%	82%
Aldrin	0.037	0.038	3.5	≤ 20%	91%
Dieldrin	0.039	0.043	10.8	≤ 20%	88%
Endrin	0.036	0.039	8.3	≤ 20%	107%
DDT	0.090	0.088	2.1	≤ 20%	74%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: Background due to sample matrix

## **ATTACHMENT 5 – 14126 Montrose Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

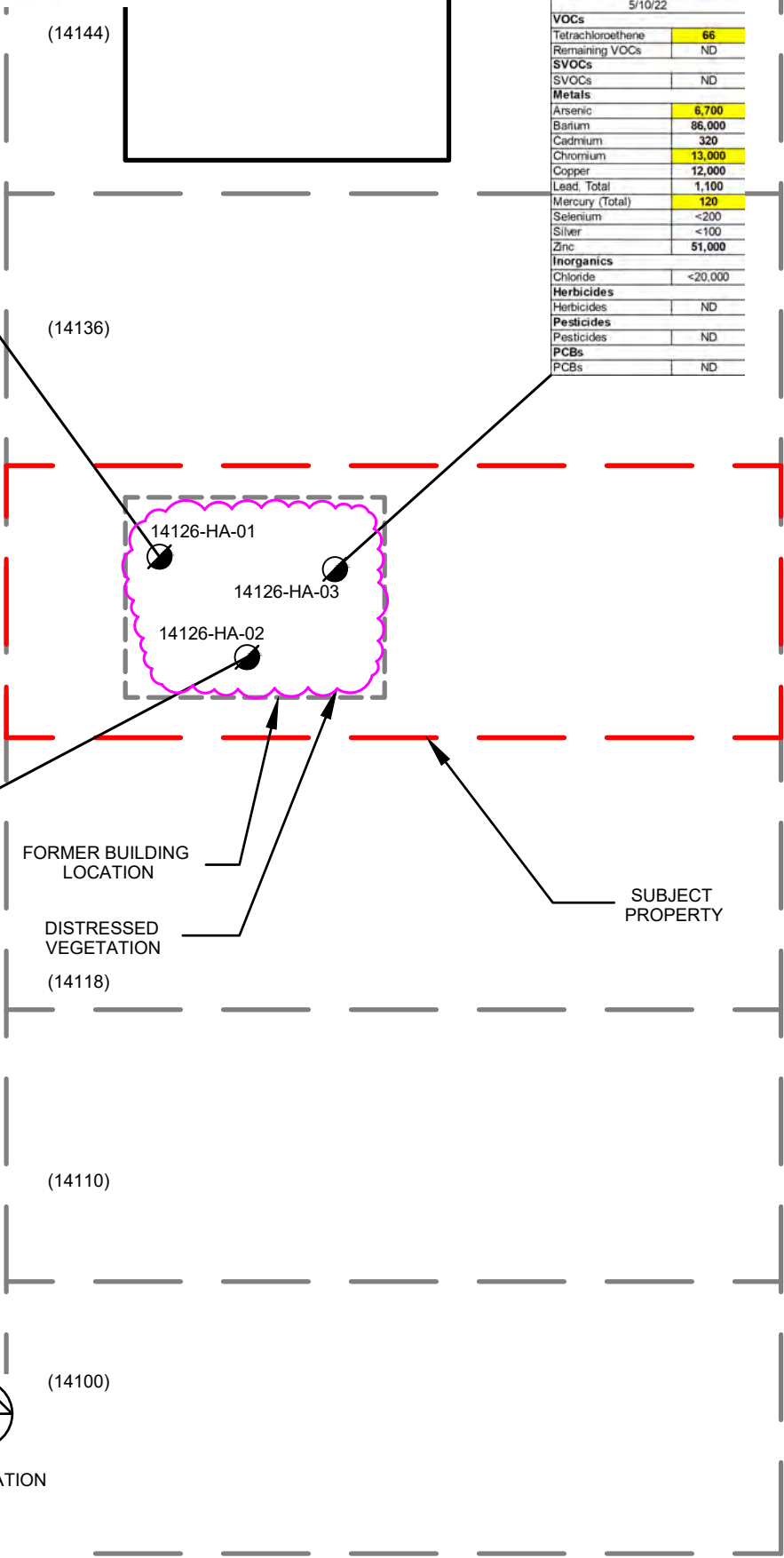
Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
**Bold** numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

14126-HA-01		3-4'
5/10/22		
<b>VOCs</b>		
Tetrachloroethene	71	
Remaining VOCs	ND	
<b>SVOCs</b>		
SVOCs	ND	
<b>Metals</b>		
Arsenic	5,500	
Barium	70,000	
Cadmium	150	
Chromium	16,000	
Copper	11,000	
Lead, Total	11,000	
Mercury (Total)	<50	
Selenium	<200	
Silver	<100	
Zinc	42,000	
<b>Inorganics</b>		
Chloride	<20,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

14126-HA-03		3-4'
5/10/22		
<b>VOCs</b>		
Tetrachloroethene	66	
Remaining VOCs	ND	
<b>SVOCs</b>		
SVOCs	ND	
<b>Metals</b>		
Arsenic	6,700	
Barium	86,000	
Cadmium	320	
Chromium	13,000	
Copper	12,000	
Lead, Total	1,100	
Mercury (Total)	120	
Selenium	<200	
Silver	<100	
Zinc	51,000	
<b>Inorganics</b>		
Chloride	<20,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	


14126-HA-02		3-4'
5/10/22		
<b>VOCs</b>		
VOCs	ND	
<b>SVOCs</b>		
SVOCs	ND	
<b>Metals</b>		
Arsenic	4,600	
Barium	44,000	
Cadmium	180	
Chromium	11,000	
Copper	9,000	
Lead, Total	11,000	
Mercury (Total)	<50	
Selenium	210	
Silver	<100	
Zinc	40,000	
<b>Inorganics</b>		
Chloride	<20,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	



MONTROSE STREET

ALLEY

**LEGEND:**

14126-HA-00  
 HAND AUGER SOIL SAMPLE LOCATION

0  25'  
 APPROXIMATE SCALE IN FEET



**Environmental Services**  
 1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207  
 (248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results  
 14126 Montrose Street,  
 Detroit, Michigan 48227

Checked: K. Robins  
 Scale: See Legend  
 Date: 6-14-2022  
 Drawn: A.Smak  
 Project Number: 01661734-5

Figure: 1

Table 1 – Summary of Soil Analytical Results

SITE NAME		14126 Montrose, Detroit, MI											
Project No.		0166-1734-5											
COMPOUND		Chemical Abstract Service Number (CAS)	EGLE Residential Cleanup Criteria (µg/kg)								14126- HA-01	14126- HA-02	14126- HA-03
			Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact			
Sample interval (feet)	Date Sampled	Residential Drinking Water Protection Criteria		Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels	3-4'	3-4'	3-4'
<b>VOCs</b>													
Tetrachloroethene	127184	NA	100	1,200 (X)	1,000	6.2 (M)	170,000	2.70E+09	2.0E+5 (C)	88,000	71	<50	66
Remaining VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>													
SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Metals</b>													
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	5,500	4,600	6,700
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	70,000	44,000	86,000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	150	180	320
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	16,000	11,000	13,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	11,000	9,000	12,000
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	11,000	11,000	1,100
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	120
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	<200	210	<200
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	42,000	40,000	51,000
<b>Inorganic Analysis</b>													
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	<20,000	<20,000	<20,000
<b>Herbicides</b>													
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Pesticides</b>													
Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>PCBs</b>													
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND

## FOOTNOTES

**Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria**

**Bold numbers indicates detection above laboratory method detection limits (MDLs)**

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Survey Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001).

Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
14126 Montrose Street,  
Detroit, Wayne County, MI 48227



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface





**The City of Detroit / Demolition Department  
14126 Montrose Street,  
Detroit, Wayne County, MI 48227**



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 12:40  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **14126-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 14126 Montrose Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1		100%	----- dark brown, moist with trace gravel	0.0
2				0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

<b>PSI SOIL BORING LOG</b>		SHEET	2 OF 3
BORING/PIT No:		PROJECT NO.:	0166-1734
<b>14126-HA-02</b>		PREPARED BY:	A. Smak
PROJECT NAME <b>16 Residential Properties, Detroit</b>		DATE:	May 10, 2022
LOCATION: <b>14126 Montrose Street, Detroit, MI</b>		TIME:	13:05
DRILLING CO: <b>PSI</b>		DEPTH TO GROUNDWATER:	NA
DRILL CREW: <b>A. Smak/D. Adams</b>		BORING DEPTH:	4' BGS
DRILLING/TRENCHING METHOD: <b>Hand Auger</b>			

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
			----- dark brown, moist with trace gravel	
1				0.0
2		100%		0.0
3				0.0
4				0.0
5			End of Boring 4' BGS	
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 13:35  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **14126-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 14126 Montrose Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			dark, brown, moist with trace gravel	0.0
2		100%	brown to light brown, trace gravel	0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

June 10, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 14126 Montrose Street, Detroit, MI  
0166-1734

Dear Mr. Wozniak :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/18/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81866 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 06/10/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
 BA Sample ID: **CR00824** Project Number: **0166-1734**  
 Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5500	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	70000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	150	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	16000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	42000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





**Brighton Analytical LLC**  
2105 Pless Drive  
Brighton, Michigan 48114  
Phone: (810)229-7575 (810)229-8650  
e-mail: bai-brighton@sbcglobal.net  
EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
BA Sample ID: **CR00824** Project Number: **0166-1734**  
Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00824**

Project Number: **0166-1734**

Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
BA Sample ID: **CR00824** Project Number: **0166-1734**  
Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
 BA Sample ID: **CR00824** Project Number: **0166-1734**  
 Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022

Sample Date: 05/10/2022  
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To: Intertek - PSI  
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BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00824**

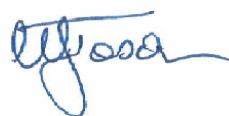
Project Number: **0166-1734**

Sample ID: **14126-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	71	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	87	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 6/10/2022





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BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00825**

Project Number: **0166-1734**

Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4600	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	44000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	180	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	11000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	9000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	210	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	40000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





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BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00825**

Project Number: **0166-1734**

Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00825**

Project Number: **0166-1734**

Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
BA Sample ID: **CR00825** Project Number: **0166-1734**  
Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00825** Project Number: **0166-1734**

Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022

Sample Date: 05/10/2022  
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To: Intertek - PSI  
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BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00825**

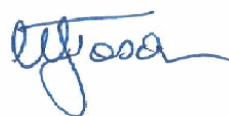
Project Number: **0166-1734**

Sample ID: **14126-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	87	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 6/10/2022





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 Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
 BA Sample ID: **CR00826** Project Number: **0166-1734**  
 Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	6700	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	86000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	320	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	13000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	12000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	120	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	51000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





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BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
 BA Sample ID: **CR00826** Project Number: **0166-1734**  
 Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
BA Sample ID: **CR00826** Project Number: **0166-1734**  
Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 06/10/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00826** Project Number: **0166-1734**

Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81866** Project Name: **14126 Montrose Street, Detroit, MI**  
 BA Sample ID: **CR00826** Project Number: **0166-1734**  
 Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81866**

Project Name: **14126 Montrose Street, Detroit, MI**

BA Sample ID: **CR00826**

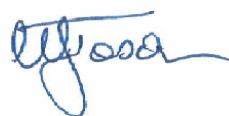
Project Number: **0166-1734**

Sample ID: **14126-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	66	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	89	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 6/10/2022









BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/25/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/18/22 MB

#### SPIKE - ACCURACY

Laboratory ID CR00774	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	70 / 79	60 - 130	100%
Lindane	0.05	ND	102 / 111	60 - 130	<20
Heptachlor	0.05	ND	69 / 73	60 - 130	<20
Aldrin	0.05	ND	67 / 75	60 - 130	<20
Dieldrin	0.05	ND	103 / 112	60 - 130	<20
Endrin	0.05	ND	92 / 100	60 - 130	<20
DDT	0.05	ND	122 / 108	60 - 130	<20

#### SPIKE - PRECISION

Laboratory ID CR00774	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.35	0.40	12.1	≤ 20%	79%
Lindane	0.051	0.056	9.2	≤ 20%	112%
Heptachlor	0.034	0.036	5.9	≤ 20%	75%
Aldrin	0.034	0.037	10.7	≤ 20%	71%
Dieldrin	0.051	0.056	8.9	≤ 20%	109%
Endrin	0.046	0.050	7.5	≤ 20%	94%
DDT	0.061	0.054	12.5	≤ 20%	108%

Standard	ID #	
DCB (Surrogate)	#4186.2	
Pesticides	#4409	

COMMENTS: \_\_\_\_\_





# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/23/2022      Std ID: #4420/#4436      Inst./Detec: HP5973/GC-MS  
 Laboratory ID#: CR00818      Matrix: soil      Analyst: RG      Ext.date: 5/20/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Spike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr.recov.	LCS-MStd	Method Blank
2-Fluorophenol	82	84	2.4	100	83	33-115	73	59	34
D5-Phenol	86	86	0.0	100	86	34-122	75	60	35
D5-Nitrobenzene	87	89	2.3	100	88	23-132	81	62	33
2-Fluorobiphenyl	92	93	1.1	100	93	20-126	85	67	37
2,4,6-Tribromophenol	78	82	5.0	100	80	23-132	55	62	26
D14-Terphenyl	94	97	3.1	100	96	27-142	77	76	35
<b>COMPOUNDS</b>									
Phenol	90	89	1.1	100	90	30-159	ND	59	<330
2-Chlorophenol	85	85	0.0	100	85	48-124	ND	55	<330
1,4-Dichlorobenzene	77	77	0.0	100	77	36-105	ND	50	<330
2-Methylphenol	93	91	2.2	100	92	45-117	ND	60	<330
N-nitrosodipropylamine	89	87	2.3	100	88	44-129	ND	56	<330
1,2,4-Trichlorobenzene	76	78	2.6	100	77	32-109	ND	50	<330
4-Chloro-3-methylphenol	72	75	4.1	100	74	23-164	ND	46	<330
2-Methylnaphthalene	84	84	0.0	100	84	21-130	ND	53	<330
2,4,5-Trichlorophenol	77	84	8.7	100	81	5-159	ND	52	<330
Acenaphthene	95	95	0.0	100	95	43-125	ND	64	<330
3-Nitroaniline	90	94	4.3	100	92	27-139	ND	60	<830
Dibenzofuran	90	90	0.0	100	90	32-138	ND	62	<330
2,4-Dinitrotoluene	84	88	4.7	100	86	28-137	ND	57	<330
4-Nitrophenol	73	74	1.4	100	74	5-181	ND	49	<830
Pentachlorophenol	69	71	2.9	100	70	5-188	ND	42	<800
DI-n-butylphthalate	110	106	3.7	100	108	34-128	ND	63	<330
Pyrene	94	104	10.1	100	99	19-159	ND	57	<330

\* Matrix Spike Precision +/-20 RPD

Comments: \_\_\_\_\_

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 23, 2022 Spike Std. ID: 4487 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00970 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	47.2	46.7	1.1	50	94	93	70-130	95%	97%	97%
d8-Toluene	49.6	49.4	0.4	50	99	99	70-130	106%	99%	100%
4-Bromofluorobenzene	52.9	53.0	0.3	50	106	106	70-130	90%	99%	105%
<b>COMPOUNDS</b>										
1,1 Dichloroethene	48.4	46.7	3.5	50	97%	93%	70-130	<1	102%	<50
1,1 Dichloroethane	44.7	42.8	4.5	50	89%	86%	70-130	<1	95%	<50
Chloroform	41.2	40.7	1.2	50	82%	81%	70-130	<1	92%	<50
1,2- Dichloroethane	44.2	43.1	2.6	50	88%	86%	70-130	<1	95%	<50
Carbon tetrachloride	42.5	42.6	0.2	50	85%	85%	70-130	<1	98%	<50
1,2- Dichloropropane	46.5	49.1	5.5	50	93%	98%	70-130	<1	105%	<50
cis- 1,3 -dichloropropene	35.3	34.7	1.9	50	71%	69%	70-130	<1	105%	<50
Trichloroethene	57.7	57.3	0.6	50	115%	115%	70-130	<1	90%	<50
Dibromochloromethane	45.8	44.4	3.2	50	92%	89%	70-130	<1	95%	<50
1,1,1- Trichloroethane	43.8	42.7	2.4	50	88%	85%	70-130	<1	92%	<50
Tetrachloroethane	39.2	38.3	2.4	50	78%	77%	70-130	<1	99%	<50
1,1,2,2 -Tetrachloroethane	23.4	23.6	1.1	50	47%	47%	70-130	<1	102%	<50
Chlorobenzene	49.5	48.8	1.4	50	99%	98%	70-130	<1	94%	<50
1,3- Dichlorobenzene	43.3	43.0	0.8	50	87%	86%	70-130	<1	93%	<50
1,4- Dichlorobenzene	44.5	42.9	3.6	50	89%	86%	70-130	<1	88%	<50
1,2-Dichlorobenzene	44.8	43.3	3.3	50	90%	87%	70-130	<1	91%	<50

ug/L is equivalent to ppb

Comments: Low percent recovery due to matrix interference.



Representative Batch Precision And Accuracy Quality Control Summary

Ion Chromatograph EPA Method 300.0

Date: 5/20/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,156	103	3,030	3,060	99	90-110%	µg/L
Chloride	<1000	50,000	49,832	100	68,326	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,008	101				90-110%	µg/L
Nitrate	<10	1,000	950	95	6,318	6,240	101	90-110%	µg/L
Sulfate	<1000	50,000	49,370	99	15,288	15,300	100	90-110%	µg/L

Sample ID# 1087

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	1,184	5,000	6,155	6,052	99	97	1.7	80-120%	µg/L
Chloride	47,645	50,000	95,912	94,734	97	94	1.2	80-120%	µg/L
Nitrite	7	1,000	997	961	99	95	3.7	80-120%	µg/L
Nitrate	13	1,000	946	893	93	88	5.9	80-120%	µg/L
Sulfate	8,283	50,000	56,265	55,785	96	95	0.9	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022                      Standard ID: 050522 S                      Batch: 05/19/2022 S2  
 Matrix Spike Lab ID: CR00820                      Matrix: Soil                      Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	92384	99709	7.6	100000	83.0	90.3	9369	<500	102.9	98.9
Copper	95541	101581	6.1	100000	87.0	93.0	8575	<1000	108.7	92.0
Zinc	133852	137315	2.6	100000	94.2	97.6	39681	<1000	108.7	104.6
Arsenic	89031	91279	2.5	100000	84.8	87.1	4220	<100	104.8	100.4
Selenium	88074	87652	0.5	100000	87.9	87.5	170	<100	109.8	101.5
Silver	742	754	1.6	1000	71.6	72.8	26	<100	96.5	108.5
Cadmium	95981	96424	0.5	100000	95.8	96.3	168	<50	104.4	103.0
Barium	128955	129882	0.7	100000	96.4	97.3	32577	<100	103.5	101.6
Lead	117348	116261	0.9	100000	102.2	101.1	15132	<1000	108.2	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_

# REPRESENTATIVE BATCH QUALITY CONTROL

## Accuracy & Precision

Analyst: LT

Parameter: Mercury

Analysis Date: 05/20/22

Method Reference: 245.1/7470/7471

Matrix: SOIL

Batch: S2

SPIKE - ACCURACY					
Laboratory ID	Spike Concentration (ug/Kg)	Background (ug/Kg)	Recoveries (%)	Acceptable Range (%)	Method Blank Concentration (ug/Kg)
CR00832	100	4.9	93 / 96	70 - 130	<50
SPIKE - ACCURACY					
Laboratory ID	Observed A (ug/Kg)	Observed B (ug/Kg)	RPD (%)	Acceptable Range (%)	
CR00832	98.1	100.9	2.8	0 - 20	
MISCELLANEOUS					
		Standard ID #	Recovery (%)	Acceptable Range (%)	
Independent Secondary Reference Material:		Spex 052022	100.3	90 - 110	
Method Standard (Laboratory Control Spike):		Hg- 052022	98.2	80 - 120	

COMMENTS: \_\_\_\_\_

## **ATTACHMENT 6 – 14803 Robson Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
**Bold** numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

(14816)

ALLEY

(14817)

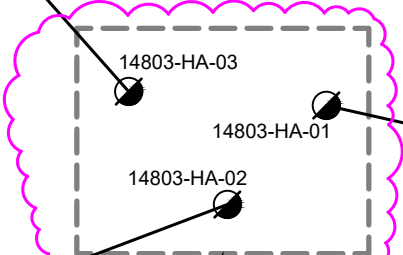
ROBSON STREET

14803-HA-03		3-4
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
Benzo(a)anthracene	400	
Benzo(b)fluoranthene	410	
Benzo(k)fluoranthene	380	
Benzo(g,h,i)perylene	500	
Benzo(a)pyrene	480	
Chrysene	450	
Fluoranthene	740	
Indeno(1,2,3-cd)pyrene	390	
Pyrene	440	
Remaining SVOCs	ND	
<b>Metals</b>		
Arsenic	5,500	
Barium	64,000	
Cadmium	380	
Chromium	11,000	
Copper	10,000	
Lead, Total	34,000	
Mercury (Total)	<50	
Selenium	250	
Silver	<100	
Zinc	55,000	
<b>Inorganics</b>		
Chloride	22,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

(14811)

14803-HA-01		3-4
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
Benzo(g,h,i)perylene	370	
Benzo(a)pyrene	370	
Chrysene	350	
Fluoranthene	460	
Remaining SVOCs	ND	
<b>Metals</b>		
Arsenic	5,600	
Barium	63,000	
Cadmium	450	
Chromium	11,000	
Copper	11,000	
Lead, Total	34,000	
Mercury (Total)	<50	
Selenium	340	
Silver	<100	
Zinc	57,000	
<b>Inorganics</b>		
Chloride	23,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

(14802)



FORMER BUILDING LOCATION

DISTRESSED VEGETATION

EATON AVENUE

SUBJECT PROPERTY

14803-HA-02		3-4
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
SVOCs		ND
<b>Metals</b>		
Arsenic	5,800	
Barium	80,000	
Cadmium	350	
Chromium	61,000	
Copper	14,000	
Lead, Total	20,000	
Mercury (Total)	<50	
Selenium	280	
Silver	<100	
Zinc	53,000	
<b>Inorganics</b>		
Chloride	35,000	
<b>Herbicides</b>		
Herbicides	ND	
<b>Pesticides</b>		
Pesticides	ND	
<b>PCBs</b>		
PCBs	ND	

(14663)

(14655)

**LEGEND:**



14803-HA-00



HAND AUGER SOIL SAMPLE LOCATION



**Environmental Services**  
 1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207  
 (248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results  
 14803 Robson Street,  
 Detroit, Michigan 48227

Checked:  
K. Robins  
Drawn:  
A. Smak

Scale:  
See Legend  
Project Number:  
**01661734-6**

Date:  
6-14-2022

Figure:  
**1**

Table 1 – Summary of Soil Analytical Results

SITE NAME		14803 Robson Street, Detroit, MI												
Project No.		0166-1734-6												
COMPOUND	Chemical Abstract Service Number (CAS)	EGLE Residential Cleanup Criteria (µg/kg)									14803-HA-01	14083-HA-02	14083-HA-03	
		Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact					
Sample interval (feet)			Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels				
Date Sampled														
<b>VOCs</b>														
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>														
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	1.60E+05	NLV	ID	20,000	NA	<330	<330	400	
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	NA	ID	ID	20,000	NA	<330	<330	410	
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NA	NLV	ID	200,000	NA	<330	<330	380	
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NA	NLV	8.00E+08	2.50E+06	NA	370	<330	500	
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NA	NLV	1.50E+06	2,000	NA	370	<330	480	
Chrysene	218019	NA	NLL	NLL	ID	NA	ID	ID	2.00E+06	NA	350	<330	450	
Fluoranthene	206440	NA	730,000	5,500	1.0E+9 (D)	NA	7.40E+08	9.30E+09	4.60E+07	NA	460	<330	740	
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NA	NLV	ID	20,000	NA	<330	<330	390	
Pyrene	129000	NA	480,000	ID	1.0E+9 (D)	2.50E+07	6.50E+08	6.70E+09	2.90E+07	NA	<330	<330	440	
Remaining SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	
<b>Metals</b>														
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	5,600	5,800	5,500	
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	63,000	80,000	64,000	
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	450	350	380	
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	11,000	61,000	11,000	
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	11,000	14,000	10,000	
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	34,000	20,000	34,000	
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	<50	
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	340	280	250	
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100	
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	57,000	53,000	55,000	
<b>Inorganic Analysis</b>														
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	23,000	35,000	22,000	
<b>Herbicides</b>														
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	
<b>Pesticides</b>														
Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	
<b>PCBs</b>														
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND	



## FOOTNOTES

Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria

**Bold** numbers indicates detection above laboratory method detection limits (MDLs)

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001). Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.

The City of Detroit / Demolition Department  
14803 Robson Street,  
Detroit, Wayne County, MI 48227



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface





The City of Detroit / Demolition Department  
14803 Robson Street,  
Detroit, Wayne County, MI 48227



View of Ground Surface



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 11:20  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **14803-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 14803 Robson Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1		100%	dark brown, moist with trace gravel	0.0
2		100%	brown to light brown with trace sand	0.0
3		100%		0.0
4		100%	End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 11:45  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **14803-HA-02**  
 PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 14803 Robson Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1		100%	----- dark, brown mixed construction debris	0.0
2		100%		0.0
3		100%	----- brown to light brown, trace gravel	0.0
4		100%		0.0
5			End of Boring 4' BGS	
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 10:30  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **14803-HA-03**  
 PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 14803 Robson Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1		100%	dark, brown, moist with trace gravel	0.0
2		100%		0.0
3		100%	brown to light brown, trace gravel	0.0
4		100%		0.0
5			End of Boring 4' BGS	
6				
7				
8				
9				
10				



May 27, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 14803 Robson Street, Detroit, MI  
0166-1734

Dear Mr. Wozniak :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/18/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81865 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
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 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
 BA Sample ID: **CR00821** Project Number: **0166-1734**  
 Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5600	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	63000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	450	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	11000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	34000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	340	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	57000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	23000	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
BA Sample ID: **CR00821** Project Number: **0166-1734**  
Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	370	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	370	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00821**

Project Number: **0166-1734**

Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	350	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	460	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
BA Sample ID: **CR00821** Project Number: **0166-1734**  
Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022





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BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
 BA Sample ID: **CR00821** Project Number: **0166-1734**  
 Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022





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BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00821**

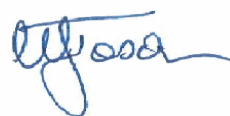
Project Number: **0166-1734**

Sample ID: **14803-HA-01 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	89	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/27/2022



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 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
 BA Sample ID: **CR00822** Project Number: **0166-1734**  
 Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5800	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	80000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	350	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	61000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	14000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	20000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	280	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	53000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	35000	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00822**

Project Number: **0166-1734**

Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00822**

Project Number: **0166-1734**

Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
BA Sample ID: **CR00822** Project Number: **0166-1734**  
Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022





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BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
BA Sample ID: **CR00822** Project Number: **0166-1734**  
Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00822**

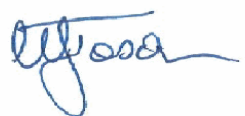
Project Number: **0166-1734**

Sample ID: **14803-HA-02 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	88	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/27/2022



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 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
 BA Sample ID: **CR00823** Project Number: **0166-1734**  
 Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	5500	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	64000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	380	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	11000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	10000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	34000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	250	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	55000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	22000	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
BA Sample ID: **CR00823** Project Number: **0166-1734**  
Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	400	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	480	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	410	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	500	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	380	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Farmington Hills, MI 48335-1026

BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00823**

Project Number: **0166-1734**

Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	450	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	740	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	390	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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BA Report Number: **81865** Project Name: **14803 Robson Street, Detroit, MI**  
 BA Sample ID: **CR00823** Project Number: **0166-1734**  
 Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	440	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022





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 BA Sample ID: **CR00823** Project Number: **0166-1734**  
 Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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 Farmington Hills, MI 48335-1026

BA Report Number: **81865**

Project Name: **14803 Robson Street, Detroit, MI**

BA Sample ID: **CR00823**

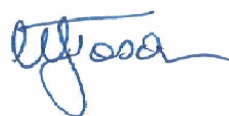
Project Number: **0166-1734**

Sample ID: **14803-HA-03 (3'-4')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	88	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/27/2022



**Brighton Analytical, L.L.C™**  
 2105 Pless Drive  
 Brighton, MI 48114  
 Phone: 810-229-7575 Fax: 810-229-8650

14803 Robson Street, Detroit, MI

0166-1734

Quote: RFQ-042522QQ

collected by: A. Smak

IF RUSH approved by:

ESTIMATED TURNAROUND: (X BOX WITH TAT NEEDED)  
 JK TAT Standard: 5 - 10 Business days  
 RUSH: 3 Business days  
 RUSH SURCHARGE  
 RUSH COST: 2 DAY = 2X COST 3 DAY = 1.5X COST  
 35 Characters Limit

ID#	Sample Description	Time	
		Time	Date
1821	14803-HA-01 (3-4')	11:20	05/10/22
1822	14803-HA-02 (3-4')	11:45	05/10/22
1823	14803-HA-03 (3-4')	12:30	05/10/22

**Container Type & Quantity**

VOA'S (PRES)	VOA'S (UNPRES)	HDPE UNPRESERVED	HDPE HNO <sub>3</sub> FILTERED	HDPE HNO <sub>3</sub> UNFILTERED	HDPE H <sub>2</sub> SO <sub>4</sub>	HDPE NAOH	AMBER GLASS	AMBER GLASS H <sub>2</sub> SO <sub>4</sub>	GLASS, NO PRESERVATIVE	MEOH Preserved:	(Field or Lab Preserved)
1									1	F	S
1									1	F	S
1									1	F	S

**Sample Matrix**

VOCS (8260B)	SVOCs (8270/EPA 625)	MI 10 Metals (6020/7471)	PCBs (8082)	Chloride (9056)	Pesticides (EPA 608)	Herbicides (EPA 615)
X	X	X	X	X	X	X
X	X	X	X	X	X	X
X	X	X	X	X	X	X

**Analysis Requested/Method**

BA PROJECT #: 81865

ABBREVIATIONS FOR SAMPLE MATRIX:  
 S = Solid  
 L = Liquid  
 DW = Drinking H<sub>2</sub>O  
 WW = Wastewater  
 O = Oil  
 P = Wipe  
 A = Air (Tedlar Bag)  
 F = Filter  
 T = Tube  
 M = Misc GW=Groundwater  
 SW = Surface Water

REPORT RESULTS TO:  
 Intertek\_PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335

Attn: Kevin Wozniak  
 Kennan Robins  
 PHONE: 248-955-1138  
 FAX:  
 EMAIL: kevin.wozniak@intertek.com  
 kennan.robins@intertek.com

Sample received within holding time? yes  no   
 Temperature of samples    
 pH verified in login? yes  no   
 Headspace/bubbles in VOAS? yes  no   
 Sample containers and COC match? yes  no

BILLING ADDRESS (IF REQUIRED)  
 METHOD  
 EPA 8260B  
 (3)  
 PSI

Drinking Water:  
 Fax to LOHD? yes  no   
 Chlorinated Water Supply? yes  no   
 MCL Failure yes  no   
 Client Notified (date/time/initials):

Instructions: Standard Turn around Time

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RECEIVED BY:	DATE:	TIME:
Adam Smak	Adam Smak	5/10/2022		3	Adam Smak	Drop Box	19:30
Cold Storage	Adam Smak	5/17/2022		4	Adam Smak	Drop Box	8:00



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL



## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/25/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/18/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00774	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	70 / 79	60 - 130	100%
Lindane	0.05	ND	102 / 111	60 - 130	<20
Heptachlor	0.05	ND	69 / 73	60 - 130	<20
Aldrin	0.05	ND	67 / 75	60 - 130	<20
Dieldrin	0.05	ND	103 / 112	60 - 130	<20
Endrin	0.05	ND	92 / 100	60 - 130	<20
DDT	0.05	ND	122 / 108	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00774	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.35	0.40	12.1	≤ 20%	79%
Lindane	0.051	0.056	9.2	≤ 20%	112%
Heptachlor	0.034	0.036	5.9	≤ 20%	75%
Aldrin	0.034	0.037	10.7	≤ 20%	71%
Dieldrin	0.051	0.056	8.9	≤ 20%	109%
Endrin	0.046	0.050	7.5	≤ 20%	94%
DDT	0.061	0.054	12.5	≤ 20%	108%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/25/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/18/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00774					
DCB (Surrogate)	0.50	ND	81 / 80	50 - 130	100%
Aroclor 1260	1.0	ND	69 / 75	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00774					
DCB (Surrogate)	0.41	0.40	1.0	≤ 20%	81%
Aroclor 1260	0.69	0.75	7.6	≤ 20%	75%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Herbicide

Analysis Date: 5/25/2022

Method Reference: EPA 8151

Matrix: Soil

Batch: 05/23/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00818					
DCPA (Surrogate)	1.0	ND	102 / 103	50 - 130	100%
Silvex	0.2	ND	101 / 99	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00818					
DCPA (Surrogate)	1.02	1.03	0.6	≤ 20%	96%
Silvex	0.202	0.197	2.6	≤ 20%	86%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

COMMENTS: \_\_\_\_\_



# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/23/2022      Std ID: #4420/#4436      Inst./Detec:HP5973/GC-MS  
 Laboratory ID#: CR00818      Matrix: soil      Analyst: RG      Ext.date:5/20/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Sp[ike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr.recov.	LCS-MStd	Method Blank
2-Fluorophenol	82	84	2.4	100	83	33-115	73	59	34
D5-Phenol	86	86	0.0	100	86	34-122	75	60	35
D5-Nitrobenzene	87	89	2.3	100	88	23-132	81	62	33
2-Fluorobiphenyl	92	93	1.1	100	93	20-126	85	67	37
2,4,6-Tribromophenol	78	82	5.0	100	80	23-132	55	62	26
D14-Terphenyl	94	97	3.1	100	96	27-142	77	76	35
<b>COMPOUNDS</b>									
Phenol	90	89	1.1	100	90	30-159	ND	59	<330
2-Chlorophenol	85	85	0.0	100	85	48-124	ND	55	<330
1,4-Dichlorobenzene	77	77	0.0	100	77	36-105	ND	50	<330
2-Methylphenol	93	91	2.2	100	92	45-117	ND	60	<330
N-nitrosodipropylamine	89	87	2.3	100	88	44-129	ND	56	<330
1,2,4-Trichlorobenzene	76	78	2.6	100	77	32-109	ND	50	<330
4-Chloro-3-methylphenol	72	75	4.1	100	74	23-164	ND	46	<330
2-Methylnapthalene	84	84	0.0	100	84	21-130	ND	53	<330
2,4,5-Trichlorophenol	77	84	8.7	100	81	5-159	ND	52	<330
Acenaphthene	95	95	0.0	100	95	43-125	ND	64	<330
3-Nitroaniline	90	94	4.3	100	92	27-139	ND	60	<830
Dibenzofuran	90	90	0.0	100	90	32-138	ND	62	<330
2,4-Dinitrotoluene	84	88	4.7	100	86	28-137	ND	57	<330
4-Nitrophenol	73	74	1.4	100	74	5-181	ND	49	<830
Pentachlorophenol	69	71	2.9	100	70	5-188	ND	42	<800
DI-n-butylphthalate	110	106	3.7	100	108	34-128	ND	63	<330
Pyrene	94	104	10.1	100	99	19-159	ND	57	<330

\* Matrix Spike Precision +/-20 RPD

Comments:

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 23, 2022 Spike Std. ID: 4487 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00970 Matrix: Mech Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	47.2	46.7	1.1	50	94	93	70-130	95%	97%	97%
d8-Toluene	49.6	49.4	0.4	50	99	99	70-130	106%	99%	100%
4-Bromofluorobenzene	52.9	53.0	0.3	50	106	106	70-130	90%	99%	105%
<b>COMPOUNDS</b>										
1,1 Dichloroethene	48.4	46.7	3.5	50	97%	93%	70-130	<1	102%	<50
1,1 Dichloroethane	44.7	42.8	4.5	50	89%	86%	70-130	<1	95%	<50
Chloroform	41.2	40.7	1.2	50	82%	81%	70-130	<1	92%	<50
1,2- Dichloroethane	44.2	43.1	2.6	50	88%	86%	70-130	<1	95%	<50
Carbon tetrachloride	42.5	42.6	0.2	50	85%	85%	70-130	<1	98%	<50
1,2- Dichloropropane	46.5	49.1	5.5	50	93%	98%	70-130	<1	105%	<50
cis- 1,3 -dichloropropene	35.3	34.7	1.9	50	71%	69%	70-130	<1	105%	<50
Trichloroethene	57.7	57.3	0.6	50	115%	115%	70-130	<1	90%	<50
Dibromochloromethane	45.8	44.4	3.2	50	92%	89%	70-130	<1	95%	<50
1,1,2- Trichloroethane	43.8	42.7	2.4	50	88%	85%	70-130	<1	92%	<50
Tetrachloroethane	39.2	38.3	2.4	50	78%	77%	70-130	<1	99%	<50
1,1,2,2 -Tetrachloroethane	23.4	23.6	1.1	50	47%	47%	70-130	<1	102%	<50
Chlorobenzene	49.5	48.8	1.4	50	99%	98%	70-130	<1	94%	<50
1,3- Dichlorobenzene	43.3	43.0	0.8	50	87%	86%	70-130	<1	93%	<50
1,4- Dichlorobenzene	44.5	42.9	3.6	50	89%	86%	70-130	<1	88%	<50
1,2-Dichlorobenzene	44.8	43.3	3.3	50	90%	87%	70-130	<1	91%	<50

ug/L is equivalent to ppb

Comments: Low percent recovery due to matrix interference.

# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S2

Matrix Spike Lab ID: CR00820

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	92384	99709	7.6	100000	83.0	90.3	9369	<500	102.9	98.9
Copper	95541	101581	6.1	100000	87.0	93.0	8575	<1000	108.7	92.0
Zinc	133852	137315	2.6	100000	94.2	97.6	39681	<1000	108.7	104.6
Arsenic	89031	91279	2.5	100000	84.8	87.1	4220	<100	104.8	100.4
Selenium	88074	87652	0.5	100000	87.9	87.5	170	<100	109.8	101.5
Silver	742	754	1.6	1000	71.6	72.8	26	<100	96.5	108.5
Cadmium	95981	96424	0.5	100000	95.8	96.3	168	<50	104.4	103.0
Barium	128955	129882	0.7	100000	96.4	97.3	32577	<100	103.5	101.6
Lead	117348	116261	0.9	100000	102.2	101.1	15132	<1000	108.2	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_



## Ion Chromatograph EPA Method 300.0

Date: 5/20/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,156	103	3,030	3,060	99	90-110%	µg/L
Chloride	<1000	50,000	49,832	100	68,326	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,008	101				90-110%	µg/L
Nitrate	<10	1,000	950	95	6,318	6,240	101	90-110%	µg/L
Sulfate	<1000	50,000	49,370	99	15,288	15,300	100	90-110%	µg/L

Sample ID# 1087

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	1,184	5,000	6,155	6,052	99	97	1.7	80-120%	µg/L
Chloride	47,645	50,000	95,912	94,734	97	94	1.2	80-120%	µg/L
Nitrite	7	1,000	997	961	99	95	3.7	80-120%	µg/L
Nitrate	13	1,000	946	893	93	88	5.9	80-120%	µg/L
Sulfate	8,283	50,000	56,265	55,785	96	95	0.9	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

## **ATTACHMENT 7 – 19760 Greenlawn Street**

Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

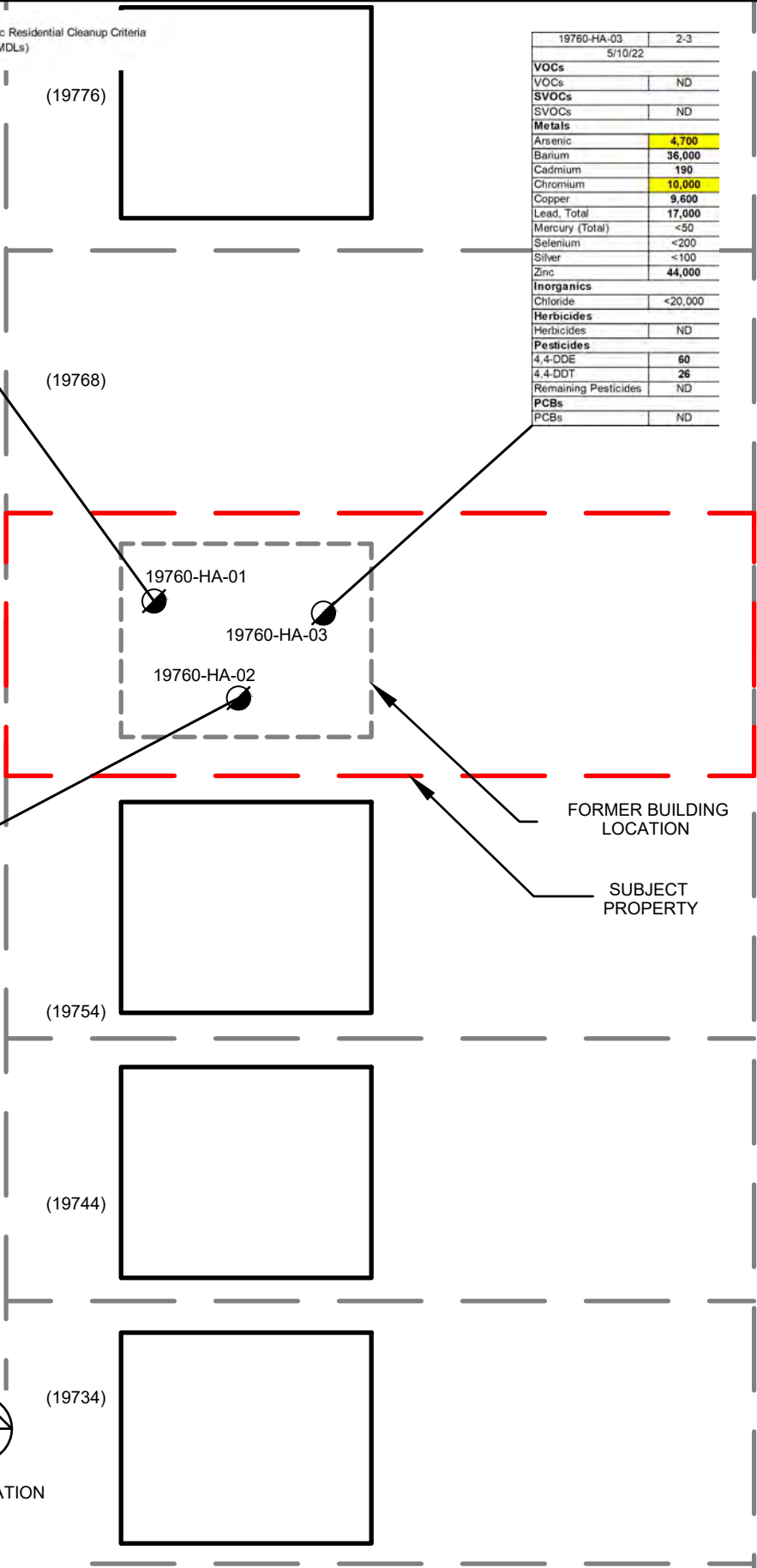


Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
**Bold** numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs

19760-HA-01		2-3
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
SVOCs		ND
<b>Metals</b>		
Arsenic		4,900
Barium		35,000
Cadmium		140
Chromium		9,900
Copper		8,900
Lead, Total		11,000
Mercury (Total)		<50
Selenium		<200
Silver		<100
Zinc		39,000
<b>Inorganics</b>		
Chloride		<20,000
<b>Herbicides</b>		
Herbicides		ND
<b>Pesticides</b>		
Pesticides		ND
<b>PCBs</b>		
PCBs		ND

19760-HA-03		2-3
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
SVOCs		ND
<b>Metals</b>		
Arsenic		4,700
Barium		36,000
Cadmium		190
Chromium		10,000
Copper		9,600
Lead, Total		17,000
Mercury (Total)		<50
Selenium		<200
Silver		<100
Zinc		44,000
<b>Inorganics</b>		
Chloride		<20,000
<b>Herbicides</b>		
Herbicides		ND
<b>Pesticides</b>		
4,4-DDE		60
4,4-DDT		26
Remaining Pesticides		ND
<b>PCBs</b>		
PCBs		ND

19760-HA-02		2-3
5/10/22		
<b>VOCs</b>		
VOCs		ND
<b>SVOCs</b>		
SVOCs		ND
<b>Metals</b>		
Arsenic		4,700
Barium		47,000
Cadmium		270
Chromium		11,000
Copper		11,000
Lead, Total		29,000
Mercury (Total)		<50
Selenium		<200
Silver		<100
Zinc		57,000
<b>Inorganics</b>		
Chloride		<20,000
<b>Herbicides</b>		
Herbicides		ND
<b>Pesticides</b>		
4,4-DDE		94
4,4-DDT		45
Remaining Pesticides		ND
<b>PCBs</b>		
PCBs		ND



**LEGEND:**

19760-HA-00  
 HAND AUGER SOIL SAMPLE LOCATION



**Environmental Services**  
 1938 Franklin Street, Suite 101  
 Detroit, Michigan 48207  
 (248)957-9911 PHONE (248)957-9909 FAX

Soil Sample Location Map  
 With Analytical Results

19760 Greenlawn Street,  
 Detroit, Michigan 48221

Checked:  
 K. Robins

Scale:  
 See Legend

Date:  
 6-14-2022

Figure:  
 1

Drawn:  
 A. Smak

Project Number:  
 01661734-7

Table 1 – Summary of Soil Analytical Results

SITE NAME		19760 Greenlawn, Detroit, MI											
Project No.		0166-1734-7											
		EGLE Residential Cleanup Criteria (µg/kg)											
COMPOUND	Chemical Abstract Service Number (CAS)	Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact		19760- HA-01	19760- HA-02	19760- HA-03
			Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels			
Sample interval (feet)													
Date Sampled													
<b>VOCs</b>													
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>													
Remaining SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Metals</b>													
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	4,900	4,700	4,700
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	35,000	47,000	36,000
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	140	270	190
Chromium (B,H)	Varies	18,000	30,000	3,300 (G,X)	NLV	NA	NLV	260,000	2.50E+06	NA	9,900	11,000	10,000
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	8,900	11,000	9,600
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	11,000	29,000	17,000
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	<50
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	<200	<200	<200
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	39,000	57,000	44,000
<b>Inorganic Analysis</b>													
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	<20,000	<20,000	<20,000
<b>Herbicides</b>													
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Pesticides</b>													
4,4-DDE	72559	NA	NLL	NLL	NLV	39,000	NLV	3.20E+07	45,000	NA	<20	94	60
4,4-DDT	50293	NA	NLL	NLL	NLV	NA	NLV	3.20E+07	57,000	NA	<20	45	26
Remaining Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>PCBs</b>													
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND

## FOOTNOTES

**Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria**

**Bold numbers indicates detection above laboratory method detection limits (MDLs)**

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Survey Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001).

Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
19760 Greenlawn Street,  
Detroit, Wayne County, MI 48221



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface



The City of Detroit / Demolition Department  
19760 Greenlawn Street,  
Detroit, Wayne County, MI 48221



View of Ground Surface



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 9:15  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **19760-HA-01**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 19760 Greenlawn Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark brown, moist with trace gravel and construction debris	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				



# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 9:45  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No:  
**19760-HA-02**

PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 19760 Greenlawn Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark brown, moist with trace gravel and construction debris	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

**PSI SOIL BORING LOG**

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 10:15  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **19760-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 19760 Greenlawn Street, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark brown, moist with trace gravel and construction debris	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

May 27, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 19760 Greenlawn Street, Detroit, MI  
0166-1734

Dear Mr. Wozniak :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/18/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81864 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
 BA Sample ID: **CR00818** Project Number: **0166-1734**  
 Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4900	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	35000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	140	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	9900	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	8900	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	39000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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e-mail:bai-brighton@sbcglobal.net  
EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
BA Sample ID: **CR00818** Project Number: **0166-1734**  
Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00818**

Project Number: **0166-1734**

Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022





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Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00818**

Project Number: **0166-1734**

Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
 BA Sample ID: **CR00818** Project Number: **0166-1734**  
 Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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Sample Date: 05/10/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00818**

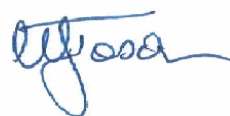
Project Number: **0166-1734**

Sample ID: **19760-HA-01 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	88	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/27/2022



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To: Intertek - PSI  
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BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00819**

Project Number: **0166-1734**

Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4700	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	47000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	270	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	11000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	29000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	57000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	94	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	45	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00819**

Project Number: **0166-1734**

Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022





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BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00819**

Project Number: **0166-1734**

Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022





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NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00819**

Project Number: **0166-1734**

Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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Sample Date: 05/10/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00819**

Project Number: **0166-1734**

Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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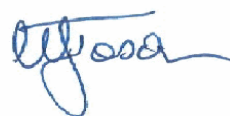
To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
 BA Sample ID: **CR00819** Project Number: **0166-1734**  
 Sample ID: **19760-HA-02 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	88	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/27/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00820**

Project Number: **0166-1734**

Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4700	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	36000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	190	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	10000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	9600	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	17000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	Not detected	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	44000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	60	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	26	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022



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BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00820**

Project Number: **0166-1734**

Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022





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BA Report Number: **81864**

Project Name: **19760 Greenlawn Street, Detroit, MI**

BA Sample ID: **CR00820**

Project Number: **0166-1734**

Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022





**Brighton Analytical LLC**  
2105 Pless Drive  
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EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
BA Sample ID: **CR00820** Project Number: **0166-1734**  
Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
 BA Sample ID: **CR00820** Project Number: **0166-1734**  
 Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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Sample Date: 05/10/2022  
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 Report Date: 05/27/2022

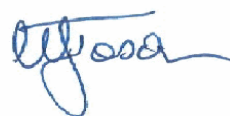
To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81864** Project Name: **19760 Greenlawn Street, Detroit, MI**  
 BA Sample ID: **CR00820** Project Number: **0166-1734**  
 Sample ID: **19760-HA-03 (2-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	90	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 Date 5/27/2022



**REPORT RESULTS TO:**  
Intertek\_PSI

37483 Interchange Drive  
Farmington Hills, MI 48335

Attn: Kevin Wozniak  
Kennan Robins  
248-955-1138

PHONE: 248-955-1138  
FAX:

EMAIL: kevin.wozniak@intertek.com  
kennan.robins@intertek.com

Sample received within holding time? yes  no   
 Temperature of samples 20/20  
 pH verified in lab? yes  no   
 Headspace/bubbles in VOAS? yes  no   
 Sample containers and COC match? yes  no

BILLING ADDRESS (IF REQUIRED)

**Analysis Requested/Method**

Drinking Water:  
 Fax to LCHD? yes  no   
 Chlorinated Water Supply? yes  no   
 MCL Failure yes  no   
 Client Notified (date/time/initials):

Sample Matrix	VOCS (8260B)	SVOCs (8270/EPA 625)	MI 10 Metals (6020/7471)	PCBs (8082)	Chloride (9056)	Pesticides (EPA 608)	Herbicides (EPA 615)
1 F S	X	X	X	X	X	X	X
1 F S	X	X	X	X	X	X	X
1 F S	X	X	X	X	X	X	X

BA PROJECT #: 81884

ABBREVIATIONS FOR SAMPLE MATRIX:  
 S = Solid  
 L = Liquid  
 DW = Drinking H<sub>2</sub>O  
 WW = Wastewater  
 O = Oil  
 P = Wipe  
 A = Air (Tedlar Bag)  
 F = Filter  
 T = Tube  
 M = Misc GW=Groundwater  
 SW = Surface Water

**Container Type & Quantity**

VOAS (PRES)	VOAS (UNPRES)	HDPE UNPRESERVED	HDPE HNO <sub>3</sub> FILTERED	HDPE HNO <sub>3</sub> UNFILTERED	HDPE H <sub>2</sub> SO <sub>4</sub>	HDPE NAOH	AMBER GLASS	AMBER GLASS H <sub>2</sub> SO <sub>4</sub>	GLASS, NO PRESERVATIVE	MEOH Preserved: (Field or Lab Preserved)
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IF RUSH approved by: A. Smak

Quote: RFQ-042522QQ

Sample Description: 19760-HA-01 (2-3')  
19760-HA-02 (2-3')  
19760-HA-03 (2-3')

Time: 9:15  
9:45  
10:15

Date: 05/10/22  
05/10/22  
05/10/22

Instructions: Standard Turn around Time

Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	Trans. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
Adam Smak	Adam Smak	5/10/2022		3	Adam Smak	Drop Box	5/10/2022	19:30
Cold Storage	Adam Smak	5/17/2022		4	Drop Box	Drop Box	5/18/22	8:00



BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/25/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/18/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00774	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	70 / 79	60 - 130	100%
Lindane	0.05	ND	102 / 111	60 - 130	<20
Heptachlor	0.05	ND	69 / 73	60 - 130	<20
Aldrin	0.05	ND	67 / 75	60 - 130	<20
Dieldrin	0.05	ND	103 / 112	60 - 130	<20
Endrin	0.05	ND	92 / 100	60 - 130	<20
DDT	0.05	ND	122 / 108	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00774	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.35	0.40	12.1	≤ 20%	79%
Lindane	0.051	0.056	9.2	≤ 20%	112%
Heptachlor	0.034	0.036	5.9	≤ 20%	75%
Aldrin	0.034	0.037	10.7	≤ 20%	71%
Dieldrin	0.051	0.056	8.9	≤ 20%	109%
Endrin	0.046	0.050	7.5	≤ 20%	94%
DDT	0.061	0.054	12.5	≤ 20%	108%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: \_\_\_\_\_





## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Herbicide

Analysis Date: 5/25/2022

Method Reference: EPA 8151

Matrix: Soil

Batch: 05/23/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. ( $\mu\text{g/mL}$ )	Background ( $\mu\text{g/mL}$ )	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00818					
DCPA (Surrogate)	1.0	ND	102 / 103	50 - 130	100%
Silvex	0.2	ND	101 / 99	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A ( $\mu\text{g/mL}$ )	Observed B ( $\mu\text{g/mL}$ )	RPD	Acceptable Range	LCS Percent Recovery
CR00818					
DCPA (Surrogate)	1.02	1.03	0.6	$\leq 20\%$	96%
Silvex	0.202	0.197	2.6	$\leq 20\%$	86%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

COMMENTS: \_\_\_\_\_

# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S2

Matrix Spike Lab ID: CR00820

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	92384	99709	7.6	100000	83.0	90.3	9369	<500	102.9	98.9
Copper	95541	101581	6.1	100000	87.0	93.0	8575	<1000	108.7	92.0
Zinc	133852	137315	2.6	100000	94.2	97.6	39681	<1000	108.7	104.6
Arsenic	89031	91279	2.5	100000	84.8	87.1	4220	<100	104.8	100.4
Selenium	88074	87652	0.5	100000	87.9	87.5	170	<100	109.8	101.5
Silver	742	754	1.6	1000	71.6	72.8	26	<100	96.5	108.5
Cadmium	95981	96424	0.5	100000	95.8	96.3	168	<50	104.4	103.0
Barium	128955	129882	0.7	100000	96.4	97.3	32577	<100	103.5	101.6
Lead	117348	116261	0.9	100000	102.2	101.1	15132	<1000	108.2	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_



## Ion Chromatograph EPA Method 300.0

Date: 5/20/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,156	103	3,030	3,060	99	90-110%	µg/L
Chloride	<1000	50,000	49,832	100	68,326	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,008	101				90-110%	µg/L
Nitrate	<10	1,000	950	95	6,318	6,240	101	90-110%	µg/L
Sulfate	<1000	50,000	49,370	99	15,288	15,300	100	90-110%	µg/L

Sample ID# 1087

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	1,184	5,000	6,155	6,052	99	97	1.7	80-120%	µg/L
Chloride	47,645	50,000	95,912	94,734	97	94	1.2	80-120%	µg/L
Nitrite	7	1,000	997	961	99	95	3.7	80-120%	µg/L
Nitrate	13	1,000	946	893	93	88	5.9	80-120%	µg/L
Sulfate	8,283	50,000	56,265	55,785	96	95	0.9	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L



# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/23/2022      Std ID: #4420/#4436      Inst./Detec: HP5973/GC-MS

Laboratory ID#: CR00818      Matrix: soil      Analyst: RG      Ext.date: 5/20/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy			LCS-%recovery		
	Spike 1	Spike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr. recov.	LCS-MStd	Method Blank
2-Fluorophenol	82	84	2.4	100	83	33-115	73	59	34
D5-Phenol	86	86	0.0	100	86	34-122	75	60	35
D5-Nitrobenzene	87	89	2.3	100	88	23-132	81	62	33
2-Fluorobiphenyl	92	93	1.1	100	93	20-126	85	67	37
2,4,6-Tribromophenol	78	82	5.0	100	80	23-132	55	62	26
D14-Terphenyl	94	97	3.1	100	96	27-142	77	76	35
<b>COMPOUNDS</b>									
Phenol	90	89	1.1	100	90	30-159	ND	59	<330
2-Chlorophenol	85	85	0.0	100	85	48-124	ND	55	<330
1,4-Dichlorobenzene	77	77	0.0	100	77	36-105	ND	50	<330
2-Methylphenol	93	91	2.2	100	92	45-117	ND	60	<330
N-nitrosodipropylamine	89	87	2.3	100	88	44-129	ND	56	<330
1,2,4-Trichlorobenzene	76	78	2.6	100	77	32-109	ND	50	<330
4-Chloro-3-methylphenol	72	75	4.1	100	74	23-164	ND	46	<330
2-Methylnapthalene	84	84	0.0	100	84	21-130	ND	53	<330
2,4,5-Trichlorophenol	77	84	8.7	100	81	5-159	ND	52	<330
Acenaphthene	95	95	0.0	100	95	43-125	ND	64	<330
3-Nitroaniline	90	94	4.3	100	92	27-139	ND	60	<830
Dibenzofuran	90	90	0.0	100	90	32-138	ND	62	<330
2,4- Dinitrotoluene	84	88	4.7	100	86	28-137	ND	57	<330
4 - Nitrophenol	73	74	1.4	100	74	5-181	ND	49	<830
Pentachlorophenol	69	71	2.9	100	70	5-188	ND	42	<800
DI-n-butylphthalate	110	106	3.7	100	108	34-128	ND	63	<330
Pyrene	94	104	10.1	100	99	19-159	ND	57	<330

\* Matrix Spike Precision +/-20 RPD

Comments:

# GC/MS

## VOLATILE METHOD 8260/624

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: May 23, 2022 Spike Std. ID: 4487 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00970 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	47.2	46.7	1.1	50	94	93	70-130	95%	97%	97%
d8-Toluene	49.6	49.4	0.4	50	99	99	70-130	106%	99%	100%
4-Bromofluorobenzene	52.9	53.0	0.3	50	106	106	70-130	90%	99%	105%
<b>COMPOUNDS</b>										
1,1 Dichloroethene	48.4	46.7	3.5	50	97%	93%	70-130	<1	102%	<50
1,1 Dichloroethane	44.7	42.8	4.5	50	89%	86%	70-130	<1	95%	<50
Chloroform	41.2	40.7	1.2	50	82%	81%	70-130	<1	92%	<50
1,2- Dichloroethane	44.2	43.1	2.6	50	88%	86%	70-130	<1	95%	<50
Carbon tetrachloride	42.5	42.6	0.2	50	85%	85%	70-130	<1	98%	<50
1,2- Dichloropropane	46.5	49.1	5.5	50	93%	98%	70-130	<1	105%	<50
cis- 1,3 -dichloropropene	35.3	34.7	1.9	50	71%	69%	70-130	<1	105%	<50
Trichloroethene	57.7	57.3	0.6	50	115%	115%	70-130	<1	90%	<50
Dibromochloromethane	45.8	44.4	3.2	50	92%	89%	70-130	<1	95%	<50
1,1,2- Trichloroethane	43.8	42.7	2.4	50	88%	85%	70-130	<1	92%	<50
Tetrachloroethane	39.2	38.3	2.4	50	78%	77%	70-130	<1	99%	<50
1,1,2,2 -Tetrachloroethane	23.4	23.6	1.1	50	47%	47%	70-130	<1	102%	<50
Chlorobenzene	49.5	48.8	1.4	50	99%	98%	70-130	<1	94%	<50
1,3- Dichlorobenzene	43.3	43.0	0.8	50	87%	86%	70-130	<1	93%	<50
1,4- Dichlorobenzene	44.5	42.9	3.6	50	89%	86%	70-130	<1	88%	<50
1,2-Dichlorobenzene	44.8	43.3	3.3	50	90%	87%	70-130	<1	91%	<50

ug/L is equivalent to ppb

Comments: Low percent recovery due to matrix interference.

## **ATTACHMENT 8 – 20425 San Juan Drive**

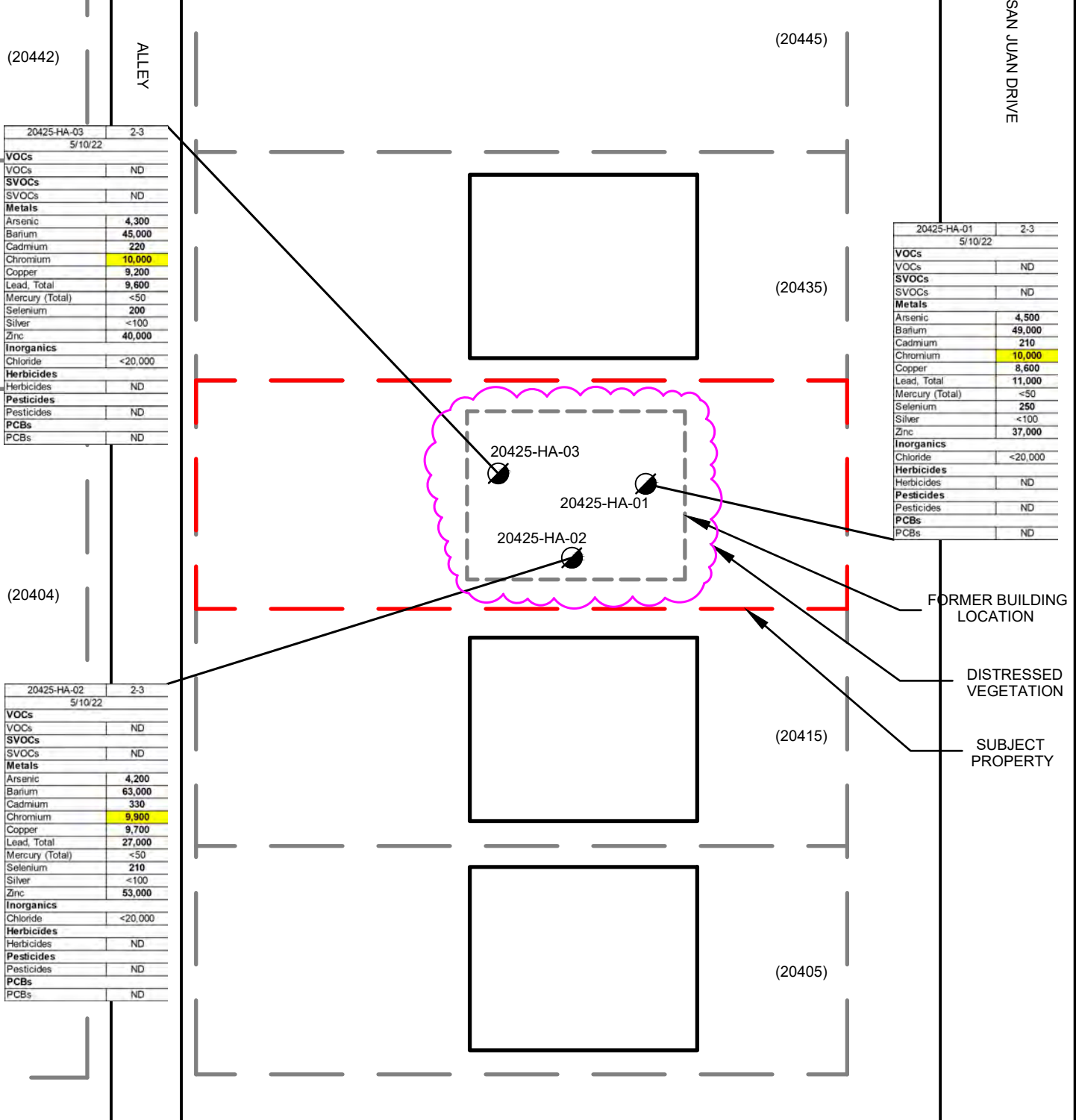
Figure 1 – Soil Sample Location Map with Soil Analytical Results

Table 1 – Summary of Soil Analytical Results

Photographic Log; Boring Logs; and

Laboratory Analytical Reports and Chain of Custody Records

Results reported in micrograms per kilogram (µg/kg)  
 Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria  
 Bold numbers indicates detection above laboratory method detection limits (MDLs)  
 ND - Not detected above laboratory MDLs



20425-HA-03		2-3
5/10/22		
VOCs		ND
SVOCs		ND
Metals		
Arsenic		4,300
Barium		45,000
Cadmium		220
Chromium		10,000
Copper		9,200
Lead, Total		9,600
Mercury (Total)		<50
Selenium		200
Silver		<100
Zinc		40,000
Inorganics		
Chloride		<20,000
Herbicides		
Herbicides		ND
Pesticides		
Pesticides		ND
PCBs		
PCBs		ND

20425-HA-01		2-3
5/10/22		
VOCs		ND
SVOCs		ND
Metals		
Arsenic		4,500
Barium		49,000
Cadmium		210
Chromium		10,000
Copper		8,600
Lead, Total		11,000
Mercury (Total)		<50
Selenium		250
Silver		<100
Zinc		37,000
Inorganics		
Chloride		<20,000
Herbicides		
Herbicides		ND
Pesticides		
Pesticides		ND
PCBs		
PCBs		ND

20425-HA-02		2-3
5/10/22		
VOCs		ND
SVOCs		ND
Metals		
Arsenic		4,200
Barium		63,000
Cadmium		330
Chromium		9,900
Copper		9,700
Lead, Total		27,000
Mercury (Total)		<50
Selenium		210
Silver		<100
Zinc		53,000
Inorganics		
Chloride		<20,000
Herbicides		
Herbicides		ND
Pesticides		
Pesticides		ND
PCBs		
PCBs		ND

**LEGEND:**



20425-HA-00  

 HAND AUGER SOIL SAMPLE LOCATION



NORFOLK STREET

	<b>Environmental Services</b> 1938 Franklin Street, Suite 101 Detroit, Michigan 48207 (248)957-9911 PHONE (248)957-9909 FAX	Soil Sample Location Map With Analytical Results		Checked: K. Robins	Scale: See Legend	Date: 6-14-2022	Figure: 1
		20425 San Juan Drive, Detroit, Michigan 48221		Drawn: A. Smak		Project Number: <b>01661734-8</b>	

Table 1 – Summary of Soil Analytical Results

SITE NAME		20425 San Juan Drive, Detroit, MI												
Project No.		0166-1734-8												
		EGLE Residential Cleanup Criteria (µg/kg)												
COMPOUND	Chemical Abstract Service Number (CAS)	Statewide Default Background Levels	Groundwater Protection		Indoor Air		Ambient Air		Direct Contact		20425- HA-01	20425- HA-02	20425- HA-03	
			Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Soil Volatilization to Indoor Air Inhalation	Volatilization to Indoor Air Pathway - Screening Levels	Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Particulate Soil Inhalation Criteria	Direct Contact Criteria	Soil Saturation Concentration Screening Levels				
Sample interval (feet)														
Date Sampled														
<b>VOCs</b>														
VOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>SVOCs</b>														
SVOCs	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND
<b>Metals</b>														
Arsenic (B)	7440382	5,800	4,600	4,600	NLV	NA	NLV	720,000	7,600	NA	<b>4,500</b>	<b>4,200</b>	<b>4,300</b>	
Barium (B)	7440393	75,000	1,300,000	(G)	NLV	NA	NLV	3.30E+08	3.70E+07	NA	<b>49,000</b>	<b>63,000</b>	<b>45,000</b>	
Cadmium (B)	7440439	1,200	6,000	(G,X)	NLV	NA	NLV	1.70E+06	550,000	NA	<b>210</b>	<b>330</b>	<b>220</b>	
Chromium (B,H)	Varies	18,000	30,000	<b>3,300 (G,X)</b>	NLV	NA	NLV	260,000	2.50E+06	NA	<b>10,000</b>	<b>9,900</b>	<b>10,000</b>	
Copper (B)	7440508	32,000	5,800,000	(G)	NLV	NA	NLV	1.30E+08	2.00E+07	NA	<b>8,600</b>	<b>9,700</b>	<b>9,200</b>	
Lead, Total (B)	7439921	21,000	700,000	(G,X)	NLV	NA	NLV	1.00E+08	400,000	NA	<b>11,000</b>	<b>27,000</b>	<b>9,600</b>	
Mercury (Total) (B,Z)	Varies	130	1,700	50 (M); 1.2	48,000	50 (M); 22	52,000	2.00E+07	160,000	NA	<50	<50	<50	
Selenium (B)	7782492	410	4,000	400	NLV	NA	NLV	1.30E+08	2.60E+06	NA	<b>250</b>	<b>210</b>	<b>200</b>	
Silver (B)	7440224	1,000	4,500	100 (M); 27	NLV	NA	NLV	6.70E+06	2.50E+06	NA	<100	<100	<100	
Zinc (B)	7440666	47,000	2,400,000	(G)	NLV	NA	NLV	ID	1.70E+08	NA	<b>37,000</b>	<b>53,000</b>	<b>40,000</b>	
<b>Inorganic Analysis</b>														
Chloride	7782505	NA	5.00E+06	(X)	NLV	NA	NLV	ID	5.0E+5 (F)	NA	<20,000	<20,000	<20000	
<b>Herbicides</b>														
Herbicides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	
<b>Pesticides</b>														
Pesticides	Varies	NA	Varies	Varies	Varies	Varies	Varies	Varies	Varies	Varies	ND	ND	ND	
<b>PCBs</b>														
Total PCBs (J,T)	1336363	NA	NLL	NLL	3.00E+06	DATA	2.40E+05	5.20E+06	(T)	NA	ND	ND	ND	

## FOOTNOTES

**Numbers in yellow indicates concentration exceeds EGLE Generic Residential Cleanup Criteria**

**Bold numbers indicates detection above laboratory method detection limits (MDLs)**

Regional Default Background Levels obtained from Soil Background and Use of the 2005 Michigan Background Soil Survey Volatilization to Indoor Air Pathway Screening Levels (VIAP-SLs) values obtained from EGLE Guidance Document for the Vapor Intrusion Pathway Ap D.1 September 4, 2020

(B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.

(D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).

(E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and

(F) Criterion is based on adverse impacts to plant life and phytotoxicity.

(G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO<sub>3</sub>/L, use 400 mg CaCO<sub>3</sub>/L for the FCV calculation. The FCV formula provides values in units of µg/L or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of the 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 µg/L. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.

(J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.

(M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

(T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, Subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and Subpart G of 40 C.F.R. §761 (July 1, 2001).

Alternatives to compliance with the TSCA standards are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable.

(X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the table in this footnote, except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in footnote (G). Soil protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the table in this footnote, except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.

(Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.

"Data" Insufficient physical chemical parameters to calculate a VIAP screening level for specified media.

"ID" means insufficient data to develop criterion.

"NA" means a criterion or value is not available or, in the case of background and CAS numbers, not applicable.

"ND" means Not Detected above laboratory method detection limit.

"NLL" means hazardous substance is not likely to leach under most soil conditions.

"NLV" means hazardous substance is not likely to volatilize under most conditions.

"---" means no criteria established.



The City of Detroit / Demolition Department  
20425 San Juan Drive,  
Detroit, Wayne County, MI 48221



Front View of Subject Property



View of Subject Property



View of Subject Property



View of Ground Surface



# PSI SOIL BORING LOG

SHEET 1 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 14:00  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **20425-HA-01**  
 PROJECT NAME 16 Residential Properties, Detroit  
 LOCATION: 20425 San Juan Drive, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark brown, with trace gravel	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 2 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 14:25  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **20425-HA-02**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 20425 San Juan Drive, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			----- dark brown, with trace gravel and construction debris	0.0
2		100%		0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

# PSI SOIL BORING LOG

SHEET 3 OF 3  
 PROJECT NO.: 0166-1734  
 PREPARED BY: A. Smak  
 DATE: May 10, 2022  
 TIME: 14:45  
 DEPTH TO GROUNDWATER: NA  
 BORING DEPTH: 4' BGS

BORING/PIT No: **20425-HA-03**  
 PROJECT NAME: 16 Residential Properties, Detroit  
 LOCATION: 20425 San Juan Drive, Detroit, MI  
 DRILLING CO: PSI  
 DRILL CREW: A. Smak/D. Adams  
 DRILLING/TRENCHING METHOD: Hand Auger

DEPTH	SAMPLE INTERVAL	RECOVERY		PID (PPM)
			TOPSOIL - dark brown, dry, loose with trace organincs	0.0
1			dark brown, moist with trace gravel and construction debris	0.0
2		100%	brown, trace gravel	0.0
3				0.0
4			End of Boring 4' BGS	
5				
6				
7				
8				
9				
10				

May 27, 2022

Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

Subject: 20425 San Juan Drive, Detroit, MI  
0166-1734

Dear Mr. Wozniak :

Thank you for making Brighton Analytical, L.L.C. your laboratory of choice. Attached are the results for the samples submitted on 05/18/2022 for the above mentioned project. NELAP/TNI Accredited Analysis and EGLE Drinking Water Certified Analysis will be identified in their respective reporting formats. Hard copies can be supplied at your request for a fee of \$20.00 per copy.

The invoice for this project will be emailed separately. If you have any questions concerning the data or invoice, please don't hesitate to contact our office. We welcome your comments and suggestions to improve our quality systems. Please reference Brighton Analytical, L.L.C. Project ID 81867 when calling or emailing. We thank you for this opportunity to partner with you on this project and hope to work with you again in the future.

Sincerely,  
Brighton Analytical, L.L.C.



**Brighton Analytical LLC**  
 2105 Pless Drive  
 Brighton, Michigan 48114  
 Phone: (810)229-7575 (810)229-8650  
 e-mail: bai-brighton@sbcglobal.net  
 EGLE Certified #9404  
 NELAC Accredited #176507

Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00827** Project Number: **0166-1734**  
 Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4500	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	49000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	210	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	10000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	8600	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	11000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	250	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	37000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





**Brighton Analytical LLC**  
2105 Pless Drive  
Brighton, Michigan 48114  
Phone: (810)229-7575 (810)229-8650  
e-mail: bai-brighton@sbcglobal.net  
EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
BA Sample ID: **CR00827** Project Number: **0166-1734**  
Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00827**

Project Number: **0166-1734**

Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
 Submit Date: 05/18/2022  
 Report Date: 05/27/2022

To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00827**

Project Number: **0166-1734**

Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00827** Project Number: **0166-1734**  
 Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022

Sample Date: 05/10/2022  
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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00827**

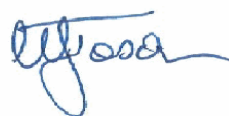
Project Number: **0166-1734**

Sample ID: **20425-HA-01 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	87	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by 

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Date 5/27/2022





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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00828** Project Number: **0166-1734**  
 Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4200	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	63000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	330	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	9900	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	9700	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	27000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	210	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	53000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





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BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00828** Project Number: **0166-1734**  
 Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00828**

Project Number: **0166-1734**

Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
BA Sample ID: **CR00828** Project Number: **0166-1734**  
Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00828**

Project Number: **0166-1734**

Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
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BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00828**

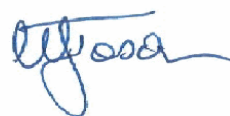
Project Number: **0166-1734**

Sample ID: **20425-HA-02 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	87	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/27/2022





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 37483 Interchange Drive  
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BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00829** Project Number: **0166-1734**  
 Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Total Metal Analysis</b>						
Total Arsenic	4300	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Barium	45000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Cadmium	220	ug/Kg	50	SW846 6020A	LT	05/20/2022
Total Chromium	10000	ug/Kg	500	SW846 6020A	LT	05/20/2022
Total Copper	9200	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Lead	9600	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Total Mercury	Not detected	ug/Kg	50	SW846 7471A	LT	05/20/2022
Total Selenium	200	ug/Kg	200	SW846 6020A	LT	05/20/2022
Total Silver	Not detected	ug/Kg	100	SW846 6020A	LT	05/20/2022
Total Zinc	40000	ug/Kg	1000	SW846 6020A	LT	05/20/2022
Metal Soil (digestion)	Digested			3050	MH	05/19/2022
Mercury (digestion)	Extracted			7470/7471	LT	05/20/2022
<b>Inorganic Analysis</b>						
Chloride (ASTM Leach)	Not detected	ug/Kg	20000	SW846 9056	RM	05/20/2022
<b>PCB/Pesticide Analysis</b>						
a-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Aldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
ARO 1016	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1221	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1232	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1242	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1248	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1254	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1260	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1262	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
ARO 1268	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
b-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
BP-6(PBB)	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
cis-Chlordane(a)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
d-BHC	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDD	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDE	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
4,4-DDT	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Dieldrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan I	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022





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EGLE Certified #9404  
NELAC Accredited #176507

Sample Date: 05/10/2022  
Submit Date: 05/18/2022  
Report Date: 05/27/2022

To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00829**

Project Number: **0166-1734**

Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>PCB/Pesticide Analysis</b>						
Endosulfan II	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endosulfan sulfate	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin aldehyde	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Endrin ketone	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
g-BHC(Lindane)	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Heptachlor epoxide	Not detected	ug/Kg	20	SW846 8081B/82A	BY	05/25/2022
Hexabromobenzene	Not detected	ug/Kg	100	SW846 8081B/82A	BY	05/25/2022
Methoxychlor	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Mirex	Not detected	ug/Kg	50	SW846 8081B/82A	BY	05/25/2022
Total PCB	Not detected	ug/Kg	330	SW846 8081B/82A	BY	05/25/2022
Toxaphene	Not detected	ug/Kg	170	SW846 8081B/82A	BY	05/25/2022
trans-Chlordane(g)	Not detected	ug/Kg	25	SW846 8081B/82A	BY	05/25/2022
PCB/Pesticide solid (extraction)	Extracted			3510C/3545	MB	05/18/2022
<b>Herbicide Analysis</b>						
2,4-D	Not detected	ug/Kg	200	SW846 8151A	BY	05/25/2022
Dicamba	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Dinoseb	Not detected	ug/Kg	20	SW846 8151A	BY	05/25/2022
2,4,5-T	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
2,4,5-TP(Silvex)	Not detected	ug/Kg	50	SW846 8151A	BY	05/25/2022
Herbicide solid (extraction)	Extracted			8151/615	BY	05/23/2022
<b>Semi-Volatile Analysis</b>						
Acenaphthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Acenaphthylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Aniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Azobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Benzo(a)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(a)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(b)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzo(g,h,i)perylene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzoic acid	Not detected	ug/Kg	3300	SW846 8270D	RG	05/23/2022
Benzo(k)fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Benzyl alcohol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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To: Intertek - PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00829** Project Number: **0166-1734**  
 Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
Bis(2-chloroethoxy)methane	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-chloroethyl)ether	Not detected	ug/Kg	100	SW846 8270D	RG	05/23/2022
Bis(2-chloroisopropyl)ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Bis(2-ethylhexyl)phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Bromophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Butyl benzyl phthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Carbazole	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloroaniline	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chloro-3-methylphenol	Not detected	ug/Kg	280	SW846 8270D	RG	05/23/2022
2-Chloronaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Chlorophenyl phenyl ether	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Chrysene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzo(a,h)anthracene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dibenzofuran	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Diethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4-Dimethylphenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Dimethylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-butylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4,6-Dinitro-2-methylphenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
2,4-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,6-Dinitrotoluene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Di-n-octylphthalate	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
1,2-Diphenylhydrazine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluoranthene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Fluorene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobenzene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorobutadiene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Hexachlorocyclopentadiene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
Hexachloroethane	Not detected	ug/Kg	300	SW846 8270D	RG	05/23/2022
Indeno(1,2,3-cd)pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Isophorone	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022



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To: Intertek - PSI  
37483 Interchange Drive  
Farmington Hills, MI 48335-1026

BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
BA Sample ID: **CR00829** Project Number: **0166-1734**  
Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Semi-Volatile Analysis</b>						
2-Methylphenol (o-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
3&4Methylphenol(m&p-Cresol)	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Naphthalene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
3-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
4-Nitroaniline	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
Nitrobenzene	Not detected	ug/Kg	200	SW846 8270D	RG	05/23/2022
2-Nitrophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
4-Nitrophenol	Not detected	ug/Kg	830	SW846 8270D	RG	05/23/2022
N-Nitrosodimethylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodi-n-propylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
N-Nitrosodiphenylamine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pentachlorophenol	Not detected	ug/Kg	800	SW846 8270D	RG	05/23/2022
Phenanthrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Phenytoin	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyrene	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
Pyridine	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,5-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
2,4,6-Trichlorophenol	Not detected	ug/Kg	330	SW846 8270D	RG	05/23/2022
BNA solid (extraction)	Extracted			3510C/3545	MB	05/20/2022
<b>Volatile Analysis(Methanol Preserved)</b>						
Acetone	Not detected	ug/Kg	750	SW846 8260C	CW	05/23/2022
Acrylonitrile	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
Benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromodichloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromoform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Bromomethane(Methyl bromide)	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
2-Butanone (MEK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Carbon disulfide	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Carbon tetrachloride	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Chloroethane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Chloroform	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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BA Report Number: **81867** Project Name: **20425 San Juan Drive, Detroit, MI**  
 BA Sample ID: **CR00829** Project Number: **0166-1734**  
 Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
Chloromethane(Methyl chloride)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
cis-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
cis-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Cyclohexane	Not detected	ug/Kg	500	SW846 8260C	CW	05/23/2022
Dibromochloromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dibromo-3-Chloropropane	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2-Dibromoethane(Ethylene dibromide)	Not detected	ug/Kg	20	SW846 8260C	CW	05/23/2022
Dibromomethane(Methylene bromide)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,4-Dichlorobenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Dichlorodifluoromethane	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
1,1-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2-Dichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Diethyl ether	Not detected	ug/Kg	200	SW846 8260C	CW	05/23/2022
Diisopropyl Ether(DIPE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Ethyl benzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Ethyltertiary butylether(ETBE)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
2-Hexanone(Methyl Butyl Ketone)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Isopropylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methyl iodide(Iodomethane)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Methylene chloride	Not detected	ug/Kg	100	SW846 8260C	CW	05/23/2022
2-Methylnaphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
4-Methyl-2-pentanone(MIBK)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Methyl(tert)butyl ether(MTBE)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Naphthalene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
n-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
n-Propylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
p-Isopropyl Toluene(p-Cymene)	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
sec-Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Styrene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
tertiary Amylmethylether(TAME)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Tertiary Butyl Alcohol(TBA)	Not detected	ug/Kg	2500	SW846 8260C	CW	05/23/2022
tertiary Butylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,1,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022



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 37483 Interchange Drive  
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BA Report Number: **81867**

Project Name: **20425 San Juan Drive, Detroit, MI**

BA Sample ID: **CR00829**

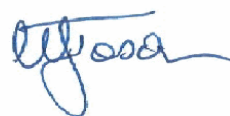
Project Number: **0166-1734**

Sample ID: **20425-HA-03 (2'-3')**

Parameters	Result	Units	DL	Method Reference	Analyst	Analysis Date
<b>Volatile Analysis(Methanol Preserved)</b>						
1,1,2,2-Tetrachloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrachloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Tetrahydrofuran(THF)	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
Toluene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,4-Dichloro-2-butene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,2-Dichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
trans-1,3-Dichloropropene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,2,4-Trichlorobenzene	Not detected	ug/Kg	250	SW846 8260C	CW	05/23/2022
1,1,1-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,1,2-Trichloroethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichloroethene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Trichlorofluoromethane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trichloropropane	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,3-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,2,4-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
1,3,5-Trimethylbenzene	Not detected	ug/Kg	50	SW846 8260C	CW	05/23/2022
Vinyl chloride	Not detected	ug/Kg	40	SW846 8260C	CW	05/23/2022
Xylenes	Not detected	ug/Kg	150	SW846 8260C	CW	05/23/2022
EPA Method 5035 Methanol Preserv	Extracted			EPA 5035	PSI	05/10/2022
%Solid	86	%		ASTM D2216	MH	05/18/2022

DL=Reported detection limit for analytical method requested. Some compounds require special analytical methods to achieve EGLE designated target detection limits (TDL).

All soil results based on dry weight.

Released by   
 \_\_\_\_\_  
 Date 5/27/2022



**REPORT RESULTS TO:**

Intertek PSI  
 37483 Interchange Drive  
 Farmington Hills, MI 48335

**Attn:** Kevin Wozniak  
 Kennan Robins

**PHONE:** 248-855-1138

**FAX:**

**EMAIL:** kevin.wozniak@intertek.com  
 kennan.robins@intertek.com

Sample received within holding time? yes  no   
 pH verified in login? yes  no   
 Headspace/bubbles in VOAS? yes  no   
 Sample containers and COC match? yes  no

**BILLING ADDRESS (IF REQUIRED)**

**Analysis Requested/Method**

Sample Matrix	VOCs (8260B)	SVOCs (8270/EPA 625)	MI 10 Metals (6020/7471)	PCBs (8082)	Chloride (9056)	Pesticides (EPA 608)	Herbicides (EPA 615)
1 F S	X	X	X	X	X	X	X
1 F S	X	X	X	X	X	X	X
1 F S	X	X	X	X	X	X	X

**BA PROJECT #:** 81867

**ABBREVIATIONS FOR SAMPLE MATRIX**

S = Solid  
 L = Liquid  
 DW = Drinking H<sub>2</sub>O  
 WW = Wastewater  
 O = Oil  
 P = Wipe  
 A = Air (Tedlar Bag)  
 F = Filter  
 T = Tube  
 M = Misc GW=Groundwater  
 SW = Surface Water

**Container Type & Quantity**

VOAS (PRES)	VOAS (UNPRES)	HDPE UNPRESERVED	HDPE HNO <sub>3</sub> FILTERED	HDPE HNO <sub>3</sub> UNFILTERED	HDPE H <sub>2</sub> SO <sub>4</sub>	HDPE NAOH	AMBER GLASS	AMBER GLASS H <sub>2</sub> SO <sub>4</sub>	GLASS, NO PRESERVATIVE	MEOH Preserved:	(F)ield or (L)ab Preserved
1									1	F	S
1									1	F	S
1									1	F	S

**IF RUSH approved by:** A. Smak

**Sample Description**  
 35 Characters Limit

20425-HA-01 (2-3')  
 20425-HA-02 (2-3')  
 20425-HA-03 (2-3')

ID#	Sample Description	Time	Date
807	20425-HA-01 (2-3')	14:00	05/10/22
828	20425-HA-02 (2-3')	14:25	05/10/22
809	20425-HA-03 (2-3')	14:45	05/10/22

**Instructions:** Standard Turn around Time

**Drinking Water:**  
 Fax to LCHD? yes  no   
 Chlorinated Water Supply? yes  no   
 MCL Failure yes  no   
 Client Notified (date/time/initials):

**Please fill out the Chain of Custody completely and review. Incorrect or incomplete information will result in a "hold" on all analyses.**

RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:	TRNS. #	RELINQUISHED BY:	RECEIVED BY:	DATE:	TIME:
Adam Smak	Adam Smak	5/10/2022		3	Adam Smak	Drop Box	5/18/22	19:30
Cold Storage	Adam Smak	5/17/2022		4	Drop box		5/18/22	8:00





BRIGHTON ANALYTICAL, LLC

QUALITY ASSURANCE/QUALITY  
CONTROL

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Pesticides

Analysis Date: 5/25/2022

Method Reference: EPA 8081B

Matrix: Soil

Batch: 05/18/22 MB

SPIKE - ACCURACY					
Laboratory ID CR00774	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
DCB (Surrogate)	0.50	ND	70 / 79	60 - 130	100%
Lindane	0.05	ND	102 / 111	60 - 130	<20
Heptachlor	0.05	ND	69 / 73	60 - 130	<20
Aldrin	0.05	ND	67 / 75	60 - 130	<20
Dieldrin	0.05	ND	103 / 112	60 - 130	<20
Endrin	0.05	ND	92 / 100	60 - 130	<20
DDT	0.05	ND	122 / 108	60 - 130	<20
SPIKE - PRECISION					
Laboratory ID CR00774	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
DCB (Surrogate)	0.35	0.40	12.1	≤ 20%	79%
Lindane	0.051	0.056	9.2	≤ 20%	112%
Heptachlor	0.034	0.036	5.9	≤ 20%	75%
Aldrin	0.034	0.037	10.7	≤ 20%	71%
Dieldrin	0.051	0.056	8.9	≤ 20%	109%
Endrin	0.046	0.050	7.5	≤ 20%	94%
DDT	0.061	0.054	12.5	≤ 20%	108%
Standard	ID #				
DCB (Surrogate)	#4186.2				
Pesticides	#4409				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: PCB

Analysis Date: 5/25/2022

Method Reference: EPA 8082A

Matrix: Soil

Batch: 05/18/22 MB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00774					
DCB (Surrogate)	0.50	ND	81 / 80	50 - 130	100%
Aroclor 1260	1.0	ND	69 / 75	50 - 130	<330 µg/Kg
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00774					
DCB (Surrogate)	0.41	0.40	1.0	≤ 20%	81%
Aroclor 1260	0.69	0.75	7.6	≤ 20%	75%
MISCELLANEOUS					
Standard	ID #				
DCB (Surrogate)	#4186.2				
Aroclor 1260	#4210.2				

COMMENTS: \_\_\_\_\_

## REPRESENTATIVE BATCH QUALITY CONTROL

### Accuracy & Precision

Analyst: BY/TP

Parameter: Herbicide

Analysis Date: 5/25/2022

Method Reference: EPA 8151

Matrix: Soil

Batch: 05/23/22 BYMB

SPIKE - ACCURACY					
Laboratory ID	Spike Conc. (µg/mL)	Background (µg/mL)	Percent Recovery	Acceptable Range (%)	Method Blank Concentration
CR00818					
DCPA (Surrogate)	1.0	ND	102 / 103	50 - 130	100%
Silvex	0.2	ND	101 / 99	50 - 130	<50
SPIKE - PRECISION					
Laboratory ID	Observed A (µg/mL)	Observed B (µg/mL)	RPD	Acceptable Range	LCS Percent Recovery
CR00818					
DCPA (Surrogate)	1.02	1.03	0.6	≤ 20%	96%
Silvex	0.202	0.197	2.6	≤ 20%	86%
MISCELLANEOUS					
Standard	ID #				
DCPA (Surrogate)	#4437.1				
Silvex	#4438.1				

COMMENTS: \_\_\_\_\_

# GC/MS

## SEMI-VOLATILE METHOD 8270

### REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 5/23/2022

Std ID: #4420/#4436

Inst./Detec: HP5973/GC-MS

Laboratory ID#: CR00818

Matrix: soil

Analyst: RG

Ext. date: 5/20/2022

SURROGATES	Matrix Spike-Precision*			Matrix Spike-Acuracy				LCS-%recovery	
	Spike 1	Spike 2	RPD	Spike Conc. ug/L	% Recovery	Range (%)	Sample surr. recov.	LCS-MStd	Method Blank
2-Fluorophenol	82	84	2.4	100	83	33-115	73	59	34
D5-Phenol	86	86	0.0	100	86	34-122	75	60	35
D5-Nitrobenzene	87	89	2.3	100	88	23-132	81	62	33
2-Fluorobiphenyl	92	93	1.1	100	93	20-126	85	67	37
2,4,6-Tribromophenol	78	82	5.0	100	80	23-132	55	62	26
D14-Terphenyl	94	97	3.1	100	96	27-142	77	76	35
<b>COMPOUNDS</b>									
Phenol	90	89	1.1	100	90	30-159	ND	59	<330
2-Chlorophenol	85	85	0.0	100	85	48-124	ND	55	<330
1,4-Dichlorobenzene	77	77	0.0	100	77	36-105	ND	50	<330
2-Methylphenol	93	91	2.2	100	92	45-117	ND	60	<330
N-nitrosodipropylamine	89	87	2.3	100	88	44-129	ND	56	<330
1,2,4-Trichlorobenzene	76	78	2.6	100	77	32-109	ND	50	<330
4-Chloro-3-methylphenol	72	75	4.1	100	74	23-164	ND	46	<330
2-Methylnapthalene	84	84	0.0	100	84	21-130	ND	53	<330
2,4,5-Trichlorophenol	77	84	8.7	100	81	5-159	ND	52	<330
Acenaphthene	95	95	0.0	100	95	43-125	ND	64	<330
3-Nitroaniline	90	94	4.3	100	92	27-139	ND	60	<830
Dibenzofuran	90	90	0.0	100	90	32-138	ND	62	<330
2,4-Dinitrotoluene	84	88	4.7	100	86	28-137	ND	57	<330
4-Nitrophenol	73	74	1.4	100	74	5-181	ND	49	<830
Pentachlorophenol	69	71	2.9	100	70	5-188	ND	42	<800
DI-n-butylphthalate	110	106	3.7	100	108	34-128	ND	63	<330
Pyrene	94	104	10.1	100	99	19-159	ND	57	<330

\* Matrix Spike Precision +/-20 RPD

Comments:



# ICP-MS METHOD 200.8/6020

## REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY

Analysis Date: 05/20/2022

Standard ID: 050522 S

Batch: 05/19/2022 S2

Matrix Spike Lab ID: CR00820

Matrix: Soil

Analyst: LT

Metals	Matrix Spike - Precision *			Matrix Spike - Accuracy**				Miscellaneous***		
	Matrix Spike (ug/Kg)	Matrix Spike Dup (ug/Kg)	RPD (%)	Spk Conc (ug/Kg)	MS Recovery (%)	MSD Recovery (%)	Sample Conc (ug/Kg)	Method Blk (ug/Kg)	LCS-Method STD (%)	Ind. Std. SPEX 1&3 (%)
Chromium	92384	99709	7.6	100000	83.0	90.3	9369	<500	102.9	98.9
Copper	95541	101581	6.1	100000	87.0	93.0	8575	<1000	108.7	92.0
Zinc	133852	137315	2.6	100000	94.2	97.6	39681	<1000	108.7	104.6
Arsenic	89031	91279	2.5	100000	84.8	87.1	4220	<100	104.8	100.4
Selenium	88074	87652	0.5	100000	87.9	87.5	170	<100	109.8	101.5
Silver	742	754	1.6	1000	71.6	72.8	26	<100	96.5	108.5
Cadmium	95981	96424	0.5	100000	95.8	96.3	168	<50	104.4	103.0
Barium	128955	129882	0.7	100000	96.4	97.3	32577	<100	103.5	101.6
Lead	117348	116261	0.9	100000	102.2	101.1	15132	<1000	108.2	96.3

\* Matrix spike precision range +/- 20% RPD

\*\* Matrix spike accuracy range +/- 30% recovery

\*\*\* LCS accuracy range +/- 15% recovery / Ind std accuracy range +/- 10% recovery

Comments: \_\_\_\_\_

Representative Batch Precision And Accuracy Quality Control Summary

Ion Chromatograph EPA Method 300.0

Date: 5/20/2022

Reviewed by: \_\_\_\_\_

Analyst: RM

ERA Q041

ERA #: WP 294

Exp. Date: Oct-22

Analyte	Sample Conc.	LCS Value	LCS Conc.	% Rec. LCS	ERA Conc.	ERA TRUE Value	% Rec ERA	Control Limits	Units
Fluoride	<100	5,000	5,156	103	3,030	3,060	99	90-110%	µg/L
Chloride	<1000	50,000	49,832	100	68,326	67,500	101	90-110%	µg/L
Nitrite	<10	1,000	1,008	101				90-110%	µg/L
Nitrate	<10	1,000	950	95	6,318	6,240	101	90-110%	µg/L
Sulfate	<1000	50,000	49,370	99	15,288	15,300	100	90-110%	µg/L

Sample ID# 1087

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride	1,184	5,000	6,155	6,052	99	97	1.7	80-120%	µg/L
Chloride	47,645	50,000	95,912	94,734	97	94	1.2	80-120%	µg/L
Nitrite	7	1,000	997	961	99	95	3.7	80-120%	µg/L
Nitrate	13	1,000	946	893	93	88	5.9	80-120%	µg/L
Sulfate	8,283	50,000	56,265	55,785	96	95	0.9	80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L

Sample ID# \_\_\_\_\_

Analyte	Sample Conc.	Spike Value	MS Conc.	MSD Conc.	% Rec MS	% Rec MSD	RPD	Control Limits	Units
Fluoride		5,000						80-120%	µg/L
Chloride		50,000						80-120%	µg/L
Nitrite		1,000						80-120%	µg/L
Nitrate		1,000						80-120%	µg/L
Sulfate		50,000						80-120%	µg/L



**GC/MS**  
**VOLATILE METHOD 8260/624**

**REPRESENTATIVE BATCH PRECISION AND ACCURACY QUALITY CONTROL SUMMARY**

Analysis Date: May 23, 2022 Spike Std. ID: 4487 Inst./Detec: HP7890/5975 Vol6  
 Laboratory ID: CR00970 Matrix: Meoh Soil Analyst: CW

	Matrix Spike - Precision			Matrix spike - Accuracy				Sample background ug/L	LCS +/- 20%	Method Blank
	Spike 1 ug/L	Spike 1 ug/L	Relative Percent Difference +/- 20%	Spk Conc ug/L	% Recovery	% Recovery	Range (%)			
d4-1,2-Dichloroethane	47.2	46.7	1.1	50	94	93	70-130	95%	97%	97%
d8-Toluene	49.6	49.4	0.4	50	99	99	70-130	106%	99%	100%
4-Bromofluorobenzene	52.9	53.0	0.3	50	106	106	70-130	90%	99%	105%
<b>COMPOUNDS</b>										
1,1 Dichloroethene	48.4	46.7	3.5	50	97%	93%	70-130	<1	102%	<50
1,1 Dichloroethane	44.7	42.8	4.5	50	89%	86%	70-130	<1	95%	<50
Chloroform	41.2	40.7	1.2	50	82%	81%	70-130	<1	92%	<50
1,2- Dichloroethane	44.2	43.1	2.6	50	88%	86%	70-130	<1	95%	<50
Carbon tetrachloride	42.5	42.6	0.2	50	85%	85%	70-130	<1	98%	<50
1,2- Dichloropropane	46.5	49.1	5.5	50	93%	98%	70-130	<1	105%	<50
cis- 1,3 -dichloropropene	35.3	34.7	1.9	50	71%	69%	70-130	<1	105%	<50
Trichloroethene	57.7	57.3	0.6	50	115%	115%	70-130	<1	90%	<50
Dibromochloromethane	45.8	44.4	3.2	50	92%	89%	70-130	<1	95%	<50
1,1,2- Trichloroethane	43.8	42.7	2.4	50	88%	85%	70-130	<1	92%	<50
Tetrachloroethane	39.2	38.3	2.4	50	78%	77%	70-130	<1	99%	<50
1,1,2,2 -Tetrachloroethane	23.4	23.6	1.1	50	47%	47%	70-130	<1	102%	<50
Chlorobenzene	49.5	48.8	1.4	50	99%	98%	70-130	<1	94%	<50
1,3- Dichlorobenzene	43.3	43.0	0.8	50	87%	86%	70-130	<1	93%	<50
1,4- Dichlorobenzene	44.5	42.9	3.6	50	89%	86%	70-130	<1	88%	<50
1,2-Dichlorobenzene	44.8	43.3	3.3	50	90%	87%	70-130	<1	91%	<50

ug/L is equivalent to ppb

Comments: Low percent recovery due to matrix interference.