

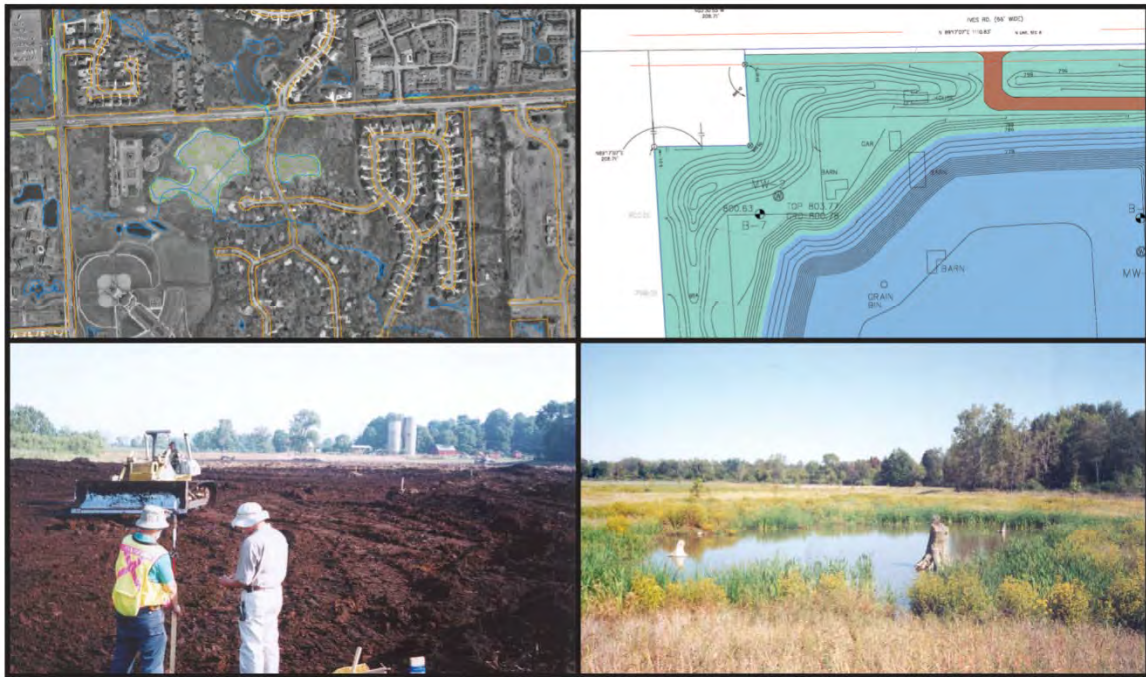
Baseline Environmental Assessment  
Conducted Pursuant to Section 20126(1)(c)  
of 1994 PA 451, Part 201, as amended

7850 East Jefferson Avenue  
Detroit, Michigan

GDC-East Jefferson, LLC

May 1, 2019

ASTI ENVIRONMENTAL





**Baseline Environmental Assessment Submittal Form**

*This form is for submittal of a Baseline Environmental Assessment (BEA), as defined by Part 201, Environmental Remediation and Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended, for the purpose of establishing an exemption to liability pursuant to Section 20126(1)(c) and Section 21323a(1)(b) for a new owner or operator of property that is a facility as defined by Section 20101(1)(s) or Property as defined by Section 21303(d). The BEA report must be conducted either prior to or within 45 days after becoming the owner or operator, whichever is earliest. This form and the BEA report must be submitted prior to or within 6 months of becoming the owner or operator whichever is earliest. A separate BEA is required for each legal entity that is or will be a new owner or operator of the property. To maintain the exemption to liability, the owner and operator must also disclose the BEA to any subsequent purchaser or transferee before conveying interest in the property pursuant to Section 20126(1)(c) and Section 21323a(1)(b). An owner or operator of a facility or Property also has due care obligations under Section 20107a and Section 21304c with respect to any existing contamination to prevent unacceptable exposure; prevent exacerbation; take reasonable precautions; provide reasonable cooperation, assistance, and access to authorized persons taking response activities at the property; comply with land use restrictions associated with response activities; and not impede the effectiveness of response activities implemented at the property. Documentation of due care evaluations, all conducted response activities, and compliance with 7a or 4c need to be available to the MDEQ, but not submitted, within 8 months of becoming the owner or operator of a facility and/or Property.*

**Section A: Legal Entity Information**

<p>Name of legal entity that does or will own or operate the property: GDC-East Jefferson, LLC          Address: 41800 W. 11 Mile Road, Suite 209          City: Novi State: MI ZIP: 48375          Contact Person (Name &amp; Title): Nathan Keup / Member          Telephone: 248-513-4900          Email: nkeup@ginosko.com</p>	<p>Contact for BEA questions if different from submitter:          Name &amp; Title: Mr. Jeremy Eφος, EP, CPG / Environmental Geologist          Company: ASTI Environmental          Address: 10448 Citation Drive, Suite 100          City: Brighton State: MI ZIP: 48116          Telephone: 810-225-2800 Email:jefros@asti-env.com</p>
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**Section B: Property Information**

<p>Street Address of Property: 7850 East Jefferson Avenue          City: Plymouth State: Michigan Zip: 48170          Property Tax ID (include all applicable IDs):17000017</p> <p>Address according to tax records, if different than above (include all applicable addresses):          City: State: Zip:</p> <p>Status of submitter relative to the property (check all that apply):</p> <table border="0"> <tr> <td></td> <td>Former</td> <td>Current</td> <td>Prospective</td> </tr> <tr> <td>Owner</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>Operator</td> <td><input type="checkbox"/></td> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>		Former	Current	Prospective	Owner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Operator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<p>County: Wayne          City/Village/Township: Detroit          Town: 1S Range:12E Section: 2          Quarter: Southwest Quarter-Quarter: Southeast          Decimal Degrees Latitude: 42.349880°          Decimal Degrees Longitude: -82.995055°          Reference point for latitude and longitude:          Center of site <input checked="" type="checkbox"/> Main/front door <input type="checkbox"/>          Front gate/main entrance <input type="checkbox"/> Other <input type="checkbox"/></p> <p>Collection method:          Survey <input type="checkbox"/> GPS <input checked="" type="checkbox"/> Interpolation</p>
	Former	Current	Prospective										
Owner	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>										
Operator	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>										

**Section C: Source of contamination at the property (check all that are known to apply):**

<p>Facility regulated pursuant to Part 201, other source, or source unknown <input checked="" type="checkbox"/></p>	
<p>Part 201 Site ID, if known:</p>	
<p>Property - Leaking Underground Storage Tank regulated pursuant to Part 213 <input type="checkbox"/></p>	
<p>Part 211/213 Facility ID, if known:</p>	
<p>Oil or gas production and development regulated pursuant to Part 615 or 625 <input type="checkbox"/></p>	
<p>Licensed landfill regulated pursuant to Part 115 <input type="checkbox"/></p>	
<p>Licensed hazardous waste treatment, storage, or disposal facility regulated pursuant to Part 111 <input type="checkbox"/></p>	

**Section D: Applicable Dates (provide date for all that are relevant):**

MM/DD/YYYY

<p>Date All Appropriate Inquiry (AAI) Report or Phase I Environmental Assessment Report completed: 02/21/2019</p>
<p>Date Baseline Environmental Assessment Report conducted: 05/01/2019</p>
<p>Date submitter first became the owner: 04/01/2019</p>
<p>Date submitter first became the operator: 04/01/2019</p>
<p>Date submitter first became the operator (if prior to ownership):</p>
<p>Anticipated date of becoming the owner for prospective owners:</p>
<p>Anticipated date of becoming the operator for prospective operators:</p>
<p>If former owner or operator of this property, prior dates of being the owner or operator:</p>

**Section E: Check the appropriate response to each of the following questions:**

YES NO

1. Is the property at which the BEA was conducted a "facility" as defined by Section 20101(1)(s) or a Property as defined by Section 21303(d)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2. Was the All Appropriate Inquiry (AAI) completed in accordance with Section 20101(1)(f) and or 21302(1)(b)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3. Was the BEA, including the sampling, conducted either prior to or within 45 days of the date of becoming the owner, operator, or of foreclosure, whichever is earliest?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4. Is this BEA being submitted to the department within 6 months of the submitter first becoming the owner or operator, or foreclosing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5. Does the BEA provide sufficient rationale to demonstrate that the data is reliable and relevant to define conditions at the property at the time of purchase, occupancy, or foreclosure, even if the BEA relies on studies of data prepared by others or conducted for other purposes?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6. Does this BEA contain the legal description of the property addressed by the BEA?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Does this BEA contain the environmental analytical results, a scaled map showing the sample locations, and the basis for the determination that the property is a facility as defined by Section 20101(1)(s) or the basis for the determination that the property is a Property as defined by Section 21303(d)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Section F: Environmental Consultant Signature:**

*I certify to the best of my knowledge and belief, that this BEA and all related materials are true, accurate, and complete. I certify that the property is a facility as defined by Section 20101(1)(s) or a Property as defined by Section 21303(d) and have provided the sampling and analyses that support that determination. I certify that any exceptions to, or deletions from, the All Appropriate Inquiry Rule are described in Section 1 of the BEA report.*

Signature:  Date: 5/31/2019

Printed Name: Jeremy Efros

Company: ASTI Environmental

Mailing Address: 10448 Citation Drive # 100 City: Brighton State: MI Zip: 48116

Telephone: 810-225-2800 E-Mail: jefros@asti-env.com

**Section G: Legal Entity Signature:**

*With my signature below, I certify that to the best of my knowledge and belief, this BEA and all related materials are true, accurate, and complete.*

Signature:  Date: May 30, 2019

(Person legally authorized to bind the legal entity)

Printed Name: Nathan Keup

Title and Relationship of signatory to submitter: Member

Address: 41800 W. 11 Mile Road, Suite 209 City: Novi State: MI Zip: 48375

Telephone: 248-513-4900 E-Mail: nkeup@ginosko.com

Submit the BEA report and this form to the MDEQ District Office for the county in which the property is located. An office map is located at [www.michigan.gov/deqrrd](http://www.michigan.gov/deqrrd).

Baseline Environmental Assessment  
Conducted Pursuant to Section 20126(1) (c)  
of 1994 PA 451, Part 201, as amended

7850 East Jefferson Avenue  
Detroit, Michigan

May 1, 2019

**Prepared For:**

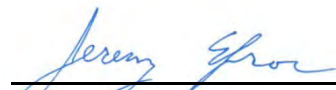
GDC-East Jefferson, LLC  
41800 W. 11 Mile Road Suite 209  
Novi, Michigan 48375

**Report Prepared By:**

ASTI Environmental  
10448 Citation Drive, Suite 100  
Brighton, Michigan 48116  
(810) 225-2800

**ASTI Project No. 2-10105**

Report Prepared by:

  
\_\_\_\_\_  
Jeremy Efros, EP, CPG  
Environmental Geologist

Report Reviewed by:

  
\_\_\_\_\_  
Brian Kuberski, EP  
Associate IV



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**FIGURES**

- 1 Site Location Map
- 2 Soil Boring Location Map
- 3 Soil Analytical Above GRCC Map

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- 1 Summary of Soil Sample Analytical Results

**ATTACHMENTS**

- A Phase I Environmental Site Assessment, ASTI Environmental, February 21, 2019 (portions)
- B Limited Subsurface Investigation, 7850 E. Jefferson Avenue, Detroit, Michigan, ASTI Environmental, April 25, 2017
- C ALTA/NSPS Land Title Survey
- D Resume of Jeremy Efros

## **1.0 INTRODUCTION AND DISCUSSION**

ASTI Environmental (ASTI) was retained by the GDC-East Jefferson, LLC to prepare a Baseline Environmental Assessment (BEA) of the property located at 7850 East Jefferson Avenue in the City of Detroit, Wayne County, Michigan (Subject Property). A Site Location Map is provided as Figure 1. This BEA was conducted on May 1, 2019.

### **1.1 Owner Information**

GDC-East Jefferson, LLC took ownership of the Subject Property on April 1, 2019. The contact information for GDC-East Jefferson, LLC is as follows:

GDC-East Jefferson, LLC  
Nathan Keup  
41800 W. 11 Mile Road, Suite 209  
Novi, Michigan 48375  
248-513-4900  
nkeup@Ginosko.com

### **1.2 Intended Use of Subject Property**

GDC-East Jefferson, LLC intends develop the Subject Property for residential use.

### **1.3 Executive Summary of AAI – Phase I ESA, February 21, 2019**

ASTI was retained by GDC-East Jefferson, LLC to conduct a Phase I Environmental Site Assessment (ESA) of the Subject Property, which was completed on February 21, 2019. The Phase I ESA was conducted in accordance with the United States Environmental Protection Agency (US EPA) Standards and Practices for All Appropriate Inquiries (AAI) and ASTM Practice E1527-13 and the Michigan State Housing Development Authority (MSHDA) Environmental Review Requirements for 2018.

The Phase I ESA included (1) a site inspection on December 28, 2018, (2) interviews with knowledgeable site contacts, (3) review of pertinent Michigan Department of Environmental Quality (DEQ), Department of Licensing and Regulatory Affairs (LARA), Wayne County, and City of Detroit information, (4) acquisition and review of a federal and Michigan database search, (5) review of historical aerial photographs, Sanborn maps, and city directories, (6)

FEMA Map search and National Wetlands Inventory map review, and (7) Noise Assessment.

The Phase I ESA identified the following recognized environmental condition (REC) with respect to the Subject Property:

- Based on the laboratory analytical results for the soil samples collected at the Subject Property during the Limited Subsurface Investigation dated April 25, 2017, ASTI opines that the Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). The facility-level concentrations of metals, at the Subject Property are representative of a release.

Portions of the Phase I ESA are included as Attachment A. The EDR Radius Report and Michigan Department of Environment, Great Lakes, and Energy (EGLE) have been removed from the Phase I ESA as requested by EGLE for BEA submittals.

#### **1.4 Exceptions to or Deletions from AA/E1527-13**

No deletions or deviations to ASTM E1527-13 occurred during the Phase I ESA other than the addition of the MSHDA Review Requirements for 2018.

#### **1.5 Data Gaps**

The following three data gaps were encountered during the completion of the Phase I ESA:

Data Gap 1. ASTI was unable to determine the first date of development.

Data Gap 2. ASTI was unable to verify heating sources for past developments.

Data Gap 3. ASTI was unable review certain requested records from the DEQ (current EGLE).

Data Gaps 1 and 3 were determined not to be significant because information from other sources provided sufficient information regarding past use to determine the potential RECs with respect to the Subject Property. Data Gap 2 was determined not to be significant because ASTI indicated heating oil was likely first used as a fuel source prior to natural gas and that if a buried heating oil fuel tank is found during any redevelopment activities, the tank should be properly decommissioned with verification sampling conducted.



## **1.6 Sampling Completed**

### Limited Subsurface Investigation, ASTI Environmental, April 25, 2017

On April 7, 2017, ASTI conducted a Limited Subsurface Investigation (LSI) that was documented in ASTI's April 25, 2017 LSI report. The work was completed on behalf of Shamrock Acquisitions, LLC, who provided the document to GDC-East Jefferson, LLC.

ASTI was provided with a prior Phase II ESA report completed at the Subject Property by NTH Consultants, LTD (NTH) on October 12, 2007. The Phase II ESA was conducted to evaluate the following recognized environmental conditions (RECs) identified in NTH's Phase I ESA of the Property dated September 11, 2007.

- The Subject Property formerly contained several structures, at least one of which had a basement. No information was available regarding the nature or source of the fill materials used to fill in the basements of the former structure(s).
- Review of available historical sources indicated that two storage tanks were present at the Subject Property with no detailed information available as to the current status or removal of the tanks.
- Review of available historical sources indicated that the southern 1/3 of the Subject Property was filled in sometime in the late 1800s or 1900s. In addition, fill soils containing debris were encountered during NTH's concurrent geotechnical investigation. No information was available as to the nature or source of the fill materials.

The Phase II ESA identified arsenic, chromium, and mercury in soil at concentrations above the Part 201 generic residential cleanup criteria (GRCC) for drinking water protection and groundwater surface water interface protection criteria. The Property was determined to be a "facility" as defined in Part 201. Based on the results of the Phase II ESA, NTH conducted a BEA of the Subject Property in January 2008, which was affirmed on February 1, 2008. A Geophysical Survey was also conducted during the Phase II ESA and no underground storage tanks (USTs) were identified. Three anomalies identified during the Geophysical Survey were investigated and determined not be USTs.

The purpose of ASTI's LSI was to determine the current conditions of the Subject Property based on the RECs and previous investigation results. ASTI is basing this BEA solely on the results of ASTI's 2017 LSI and not the previous NTH data.

ASTI advanced five soil borings (SB-1 through SB-5) at the Subject Property using a direct-push Geoprobe® drill rig. A soil sample was collected from each soil boring location for a total of five samples. A Soil Boring Location Map is provided as Figure 2. Photographs of the completion of the soil borings are included in the LSI report in Attachment B. Boring/sample ID, boring/sample locations, and depth were as follows.

<b>Boring/Sample ID</b>	<b>Boring/Sample Location</b>	<b>Depth of Boring</b>
SB-1	Northwestern portion of the Subject Property in regard to deposition of fill material	16 feet
SB-2	Central portion of the Subject Property in regard to deposition of fill material	16 feet
SB-3	Central portion of the Subject Property in regard to deposition of fill material	16 feet
SB-4	Southern portion of the Subject Property within the area of a historical riverbed	16 feet
SB-5	Southern portion of the Subject Property within the area of a historical riverbed	16 feet

The soil borings were advanced to 16 feet below ground surface (bgs) with a track-mounted, direct-push Geoprobe®. All down-hole equipment was decontaminated using an Alconox® wash and clean water rinse between borings to minimize the risk of cross contamination of samples. Soil encountered during field activities was characterized by ASTI's field personnel, examined for visual and/or olfactory evidence of impact, screened using a photoionization detector (PID), and recorded in a field logbook. Prior to sampling, the PID was calibrated to manufacturer specifications using 100 parts per million (ppm) isobutylene calibration gas. No PID readings were encountered in the field above 0 ppm as indicated in the soil boring logs provided in the LSI report in Attachment B.

All soil samples were collected into laboratory certified clean 4-ounce glass jars for analysis of Michigan 10 metals (arsenic, barium, cadmium, copper chromium, lead, mercury, selenium, silver, and zinc) and polynuclear aromatic hydrocarbons (PNAs), and 40-ml glass vials preserved in the field with methanol for volatile organic compounds (VOCs) analysis. All samples were placed on ice and submitted to Merit Laboratories, Inc. in East Lansing, Michigan under standard chain of custody procedures.

Soil samples were submitted for analysis of VOCs by US EPA Method 8260C, PNAs by US EPA Method 8270D, and Michigan 10 metals by US EPA Method 7471B and/or 6020A.

Sample depth, location rationale, and analysis are provided in the following table.

Boring	Sample Matrix	Sample Depth	Rationale for sample location	Analysis
SB-1	Soil	0.5-1.5'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & Michigan 10 metals
SB-2	Soil	6.5-7.5'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & Michigan 10 metals
SB-3	Soil	9-10'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & Michigan 10 metals
SB-4	Soil	7-8'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & Michigan 10 metals
SB-5	Soil	5-6'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & Michigan 10 metals

The subsurface lithology encountered in the soil borings, underlying surface cover (topsoil), generally consisted of fill soils varying in composition from sand to silty-clay that extended to depths between 4 and 13 feet bgs. The fill materials in SB-1 through SB-4 each contained varying amounts of debris (brick, concrete, foundry sand, and slag). A Silty-clay stratum was encountered underlying the fill materials and extended to the explored depth of soil borings SB-1 through SB-4. The silty-clay stratum was also present in SB-5 and persisted to 14 feet bgs before a well graded sand layer was encountered to 16 feet bgs. No odors or staining were observed in the soil borings and no readings were detected on the PID. No groundwater was encountered in soil boring SB-1. Groundwater was encountered in soil borings SB-2 through SB-5 between 8 feet and 12 feet bgs within sand layers or sand seams in the silty-clay. The depth to groundwater was generally encountered at deeper depths towards the Detroit River. The likely groundwater flow direction is to the southeast based on surface gradient and observed depth to groundwater.

The results were compared to the GRCC for the Property under Part 201 for soil drinking water protection (DWP), groundwater surface water interface protection (GSIP), direct

contact (DC), soil volatilization to indoor air inhalation (SVIAI), and particulate soil inhalation (PSI).

### *Soil Analytical Results*

Table 1 presents the laboratory analytical results for the soil samples in comparison to the applicable EGLE Part 201 GRCC. The laboratory analytical reports and chain of custody records are provided in the LSI report in Attachment B.

The laboratory analytical results reported the metal mercury at concentrations exceeding the GRCC for GSIP in soil samples SB-1 (0.5-1.5'), SB-3 (9-10'), and SB-4 (7-8'). In addition, arsenic was detected at a concentration exceeding the GRCC for DWP and GSIP in soil sample SB-2 (6.5-7.5'). Lead was reported at a concentration exceeding the GRCC for DC in soil sample SB-1 (0.5-1.5').

The arsenic results were also compared to the regional background concentrations contained in the Michigan Background Soil Survey 2005 (Updated 2015). The Subject Property is located in the Huron-Erie Glacial Lobe. Based on the Michigan Background Soil Survey 2005 (Updated 2015) and DEQ regulation 324.2101(1)(e)(ii)(A), the regional background concentration of arsenic in sand in the Huron-Erie glacial lobe is 22,800 µg/kg. Arsenic was reported in soil sample SB-2 (6.5-7.5') at a concentration of 6,280 µg/kg which is below the regional background concentration and does not represent an exceedance of the GRCC. No other metals were detected above the GRCC.

PNAs were reported in soil samples SB-1 and SB-3 at concentrations below the GRCC. No PNAs were reported in the remaining soil samples. No VOCs were detected in the soil samples.

### **1.7 General Location of Known Contamination**

Based on the analytical results obtained during the subsurface investigation at the Subject Property, the affected media at the Subject Property are soil. A map depicting the soil boring locations is provided as Figure 2 and a map depicting the sample locations with soil and analytical results above the GRCC is provided as Figure 3.

**1.8 Basis of Conclusion the Property is a Facility**

Based on the concentrations of the metals mercury and lead in soil at the Subject Property exceeding the applicable GRCC, it is ASTI's opinion that the Subject Property is a "facility" as defined in Part 201.

## **2.0 PROPERTY INFORMATION**

### **2.1 Legal Description of Subject Property**

The location of the Subject Property is indicated on a Site Location Map provided as Figure 1. The Subject Property is assigned Parcel ID 17000017. A legal description of the Subject Property is included on the ALTA/NSPS Land Title Survey Attachment C.

### **2.2 Survey Map(s)**

A scaled Soil Boring Location Map (Figure 2) depicts details of site improvements. The map is based on the Survey provided in Attachment C.

### **2.3 Scaled Site Map(s)**

A Soil Analytical Above GRCC Map is provided as Figure 3. The map depicts site structures, sample locations, and the detected contaminant concentrations in excess of the Part 201 GRCC.

### **2.4 Scaled Area Map**

A scaled Site Location Map, based on a USGS quadrangle, is provided as Figure 1.

### **2.5 Subject Property Location**

The Subject Property is located on the south side of East Jefferson Avenue, approximately 200 feet east of Seyburn Street and 200 feet southwest of Van Dyke Street in the City of Detroit, Wayne County, Michigan. The approximate center of the Subject Property is located at Latitude 42.349880° and Longitude -82.995055°.

### **2.6 Spatial Data**

The following spatial data were provided on the BEA Submittal form.

County: Wayne

City/Village/Township: Detroit

Section: 2

Town: 1S Range: 12E

Quarter: Southwest Quarter-Quarter: Southeast

Decimal Degrees Latitude: 42.349880°

Decimal Degrees Longitude: -82.995055°

Latitude and longitude are referenced from the center of the Property from the EDR Radius Map Report with GeoCheck, survey, and Google Earth.

### 3.0 FACILITY STATUS

#### 3.1 Contaminant Table

Contaminant concentrations in soil at the Subject Property that exceed the EGLE GRCC are summarized in the following table.

Table of Soil Analytical Results in Excess of EGLE GRCC

Sample Identification	Chemical Compound	CAS Number	GRCC (µg/kg)	Analytical Result (µg/kg)
SB-1 0.5-1.5'	Lead	7439921	DC - 400,000	518,000
	Mercury	7439976	GSIP 130	187
SB-3 9-10'	Mercury	7439976	GSIP 130	190
SB-4 7-8'	Mercury	7439976	GSIP 130	215

GSIP = Groundwater Surface Water Interface Protection

DC = Direct Contact criteria

#### 3.2 Laboratory Analytical Report

Complete analytical results (laboratory data sheets) for the soil samples collected during the LSI are included in the LSI Report in Attachment B.



#### 4.0 IDENTIFICATION OF THE AUTHOR OF THE BEA

Mr. Jeremy Efos assumes the primary responsibility for the data assembly, interpretation, and technical conclusions for this BEA. Mr. Efos is a Certified Professional Geologist and has over 13 years of experience in Environmental Consulting including Phase I Environmental Site Assessments, Phase II Environmental Assessments, Baseline Environmental Assessments, soil and groundwater remediation, and Leaking Underground Storage Tank assessments. Mr. Efos has a Bachelor of Science in Geology from the University of Michigan and a Masters Candidacy in Geophysics and Paleoseismology from Boston College. Mr. Efos' current resume is included as Attachment D.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Jeremy Efos, CPG, EP  
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810-225-3800 F  
810-360-9310 C  
[jefros@asti-env.com](mailto:jefros@asti-env.com)

## **5.0 PHASE I ESA – AAI/ASTM E1527-13**

The Phase I ESA, dated February 21, 2019, is provided as Attachment A. The report considers hazardous substances as defined by Section 20101(1)(x). Note that the EDR Radius Report and other files maintained by the EGLE have been removed from the Phase I ESA.

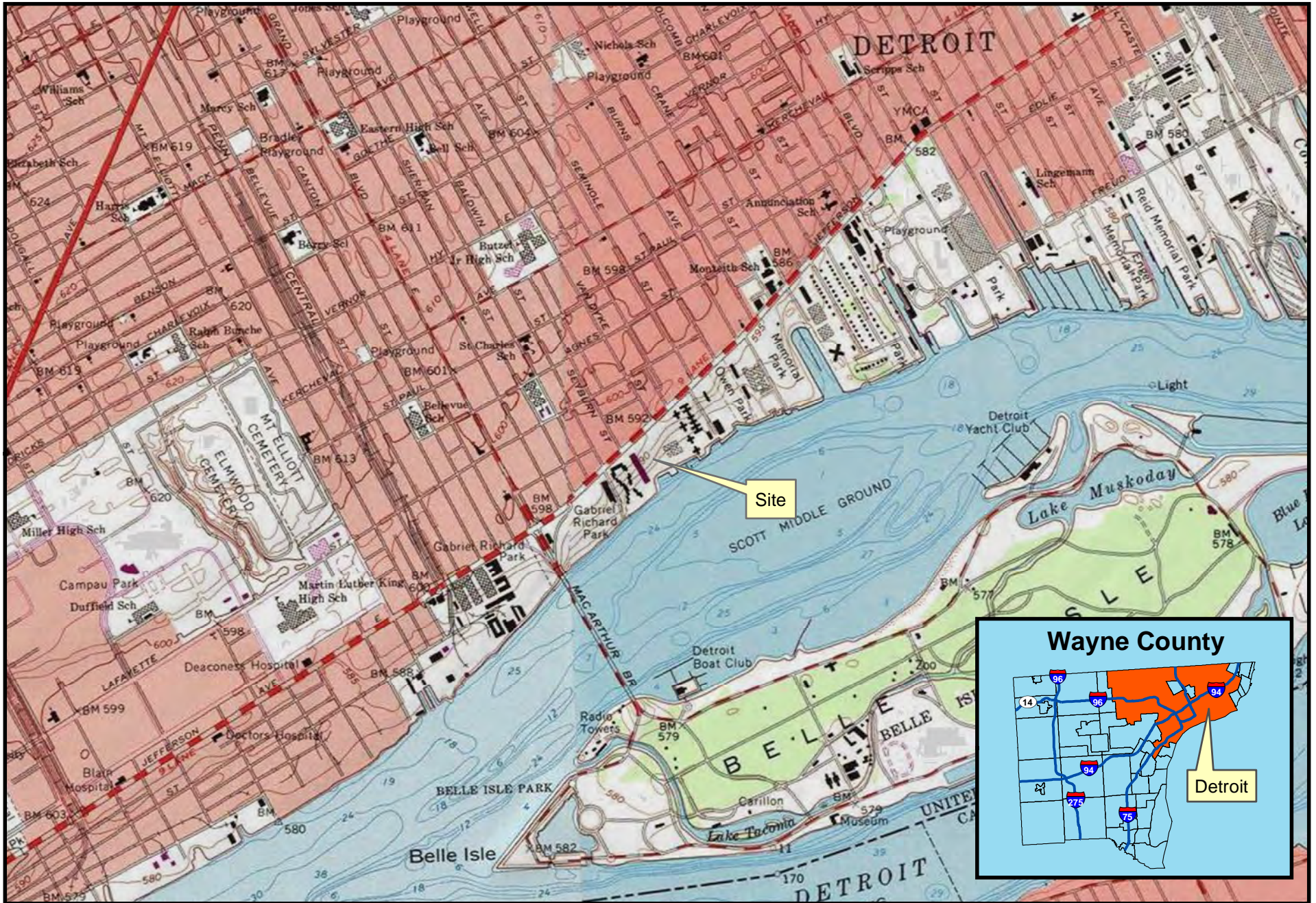
## 6.0 REFERENCES

The following references were used in preparing this BEA:

1. Part 201 of the Natural Resources and Environmental Protection Act, Act 451 of 1994, as amended
2. Michigan Department of Environmental Quality – Remediation and Redevelopment Division, Part 7 Environmental Contamination Response Activity, R 299.46: Generic Soil Cleanup Criteria for Residential Category, December 30, 2013
3. ASTM Document E1527-13; “Standard Practice for Environmental Assessments; Phase I Environmental Assessment Process”
4. Environmental Protection Agency, 40 CFR Part 312, Standards and Practices for All Appropriate Inquires; Final Rule
5. Laboratory Analytical Reports, Fibertec Environmental Services, April 19, 2017
6. Limited Subsurface Investigation, 7850 E. Jefferson Avenue, Detroit, Michigan, ASTI Environmental, April 25, 2017
7. Phase I Environmental Site Assessment, 2.8 Acres of Vacant Land, 7850 E. Jefferson Avenue, Detroit, Michigan, ASTI Environmental, February 21, 2019
8. ALTA/NSPS Land Title Survey, giffels webster, April 24, 2019

## FIGURES

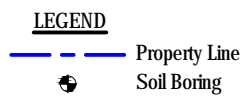
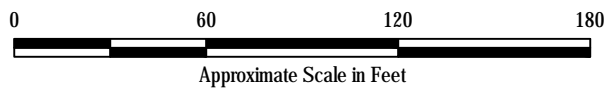
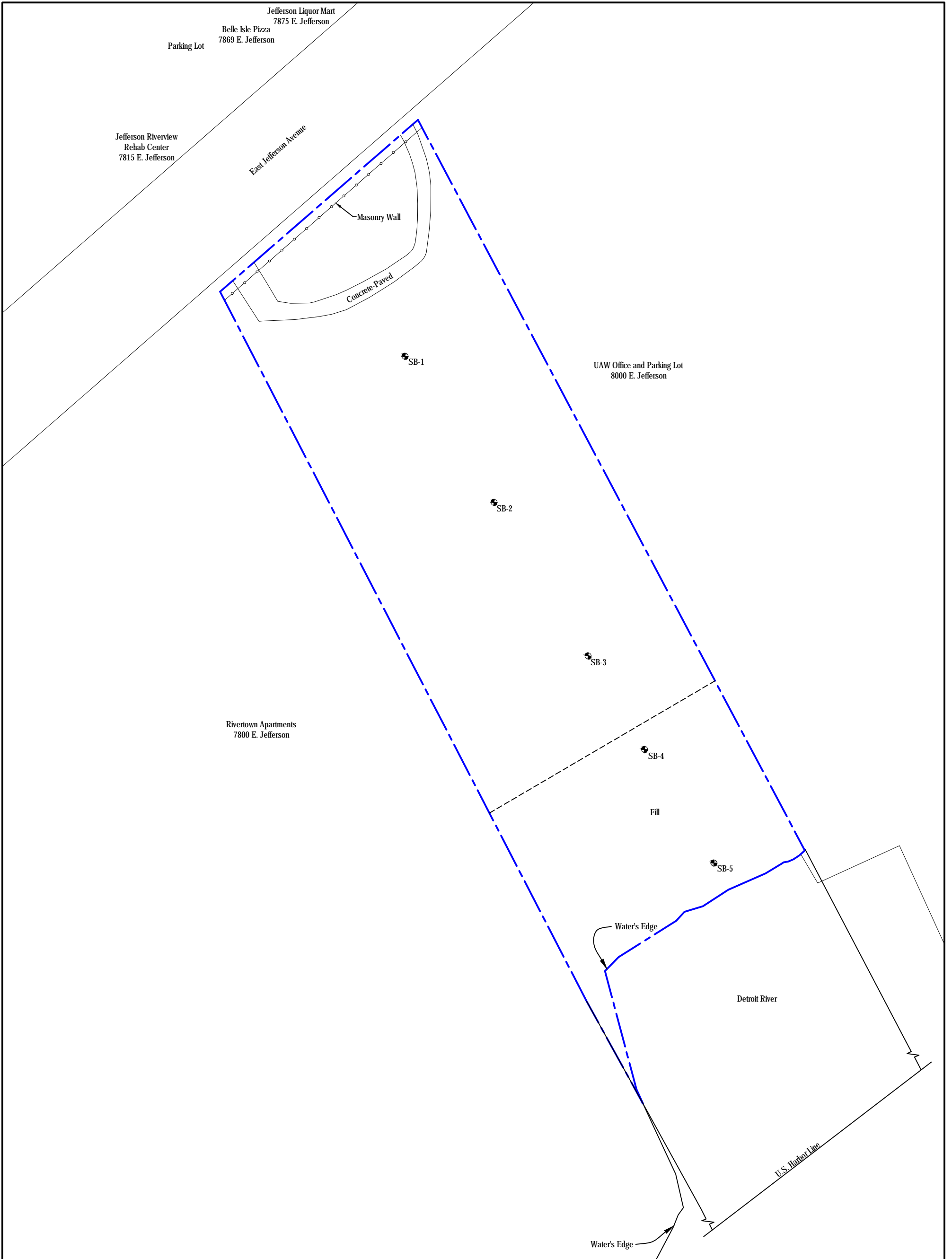
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- 3 Soil Analytical Above GRCC Map

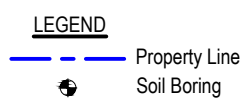
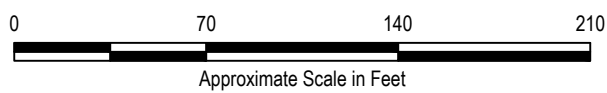
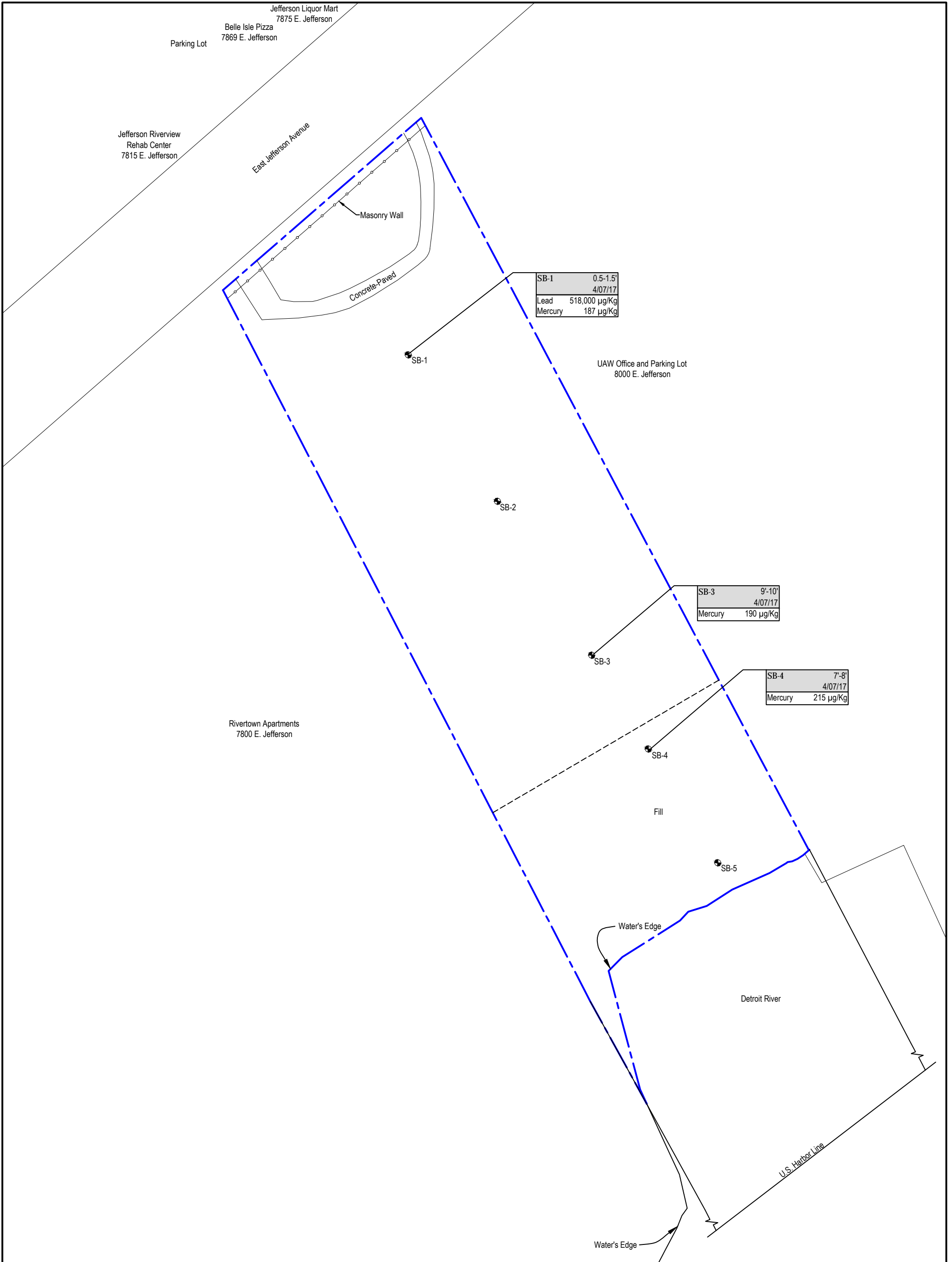


7850 E. Jefferson Ave.

Created for: GDC - East Jefferson, LLC  
 Created by: JRN, April 30, 2019, ASTI Project 2-10105

Figure 1 - Site Location Map





## **TABLES**

- 1 Summary of Soil Sample Analytical Results







## ATTACHMENTS

**Attachment A**

**Phase I Environmental Site Assessment  
February 21, 2019 (portions)**

Phase I Environmental Site Assessment  
2.8 Acres of Vacant Land  
7850 E. Jefferson Avenue  
Detroit, Michigan

GDC-East Jefferson LLC  
February 21, 2019

ASTI ENVIRONMENTAL



## SECTION IX

## 2018 MSHDA PHASE I SUMMARY COVER SHEET

Project Name:	2.8 acres of vacant land		
Project Address:	7850 E. Jefferson Ave.		
Sponsors Name:	Nathan Keup	Sponsor E-mail:	Nkeup@ginosko.com
Consulting Firm:	ASTI Environmental		
Consultant Phone:	(810)225-2800	E-mail:	aspencer@asti-env.com
Consultant Project #:	1-10105	Report Date:	February 21, 2019

Additional Site Info (please complete if known)			
Site area:	2.8 (in acres)	# Units planned:	
Vacant land:	<input checked="" type="checkbox"/>	Developed:	<input type="checkbox"/>
Vacant Structure(s):	<input type="checkbox"/>	# vacant	
		If developed, # existing buildings:	
		Date(s) of construction for existing structures:	
Single Site:	<input type="checkbox"/>	Scattered sites:	<input type="checkbox"/>
		If scattered, # sites:	
Rehab of existing structure(s):	<input type="checkbox"/>	New Construction <u>with</u> planned demolition of existing structure(s):	<input type="checkbox"/>
Adaptive Re-Use:	<input type="checkbox"/>	New Construction <u>without</u> planned demolition of existing structure(s):	<input type="checkbox"/>
No physical changes planned:	<input type="checkbox"/>	Comments:	

Please answer all questions below, noting the appropriate page or appendix in your report that contains the supporting documentation. **Summary Cover Sheets containing unknown or incomplete responses will not be processed and will be returned for correction.**

**1. Report Findings**

a. The site contains a wetland area(s).

Yes  No Pg. 32  
(See requirements in Sec. IV, H.6)

b. The site or a portion of the site is in the Special Flood Hazard Area.

Yes  No Pg. 32  
(See requirements in Sec. IV, H.5)

c. The site contains a UST(s) or AST(s).

Yes  No Pg. 23  
(See requirements in Sec. IV, I)

d. **RECs** - The Phase I ESA revealed a REC(s).

Yes  No Pg. 28-29  
(See requirements in Sec. IV)

e. **EMF** - There are high power electrical transmission lines within 500 feet of the subject site.

Yes  No Pg. 32

(See requirements in Sec. IV, H.7)

f. **HP GAS** - There are buried high-pressure gas transmission lines (4" in diameter and 400 psi or greater) within 1000 feet of the subject site.

Yes  No Pg. 32

(See requirements in Sec. IV, H.8)

g. **NOISE** - The subject site is near a busy roadway or within 1000 feet of a limited access freeway or 3000 feet of a rail line, or within 15 miles of an airport.

Yes  No Pg. 32-33

Was a noise assessment performed?

Yes  No

(See requirements in Sec. IV, H.9)

h. **ASBESTOS** - A NESHAP-compliant asbestos survey is required for every MSHDA renovation/remodeling project, regardless of the date of construction. Was a NESHAP-compliant asbestos survey performed for this renovation/remodeling project?

Yes  No Pg. 32

If Yes, were any asbestos containing materials(ACM) identified?

Yes  No

(See requirements in Sec. IV, H.1)

i. **LEAD** - For structures built before January 1, 1978, a combination lead Risk Assessment/Inspection satisfying state and federal requirements is required. Was a combination lead Risk Assessment/Inspection performed?

Not required: Post-1977 Date of Construction

Yes  No Pg. 32

If Yes, was Lead Based Paint identified?

Yes  No

(See requirements in Sec. IV, H.2)

j. **RADON** - For developments in EPA Radon Zone 1 counties (Branch, Calhoun, Cass, Hillsdale, Jackson, Kalamazoo, Lenawee, St. Joseph, and Washtenaw) was a radon assessment conducted by a Radon Professional was performed?

Not required: Not in EPA Radon Zone 1 county  
Pg. 32

Yes  No

If Yes, was Radon identified above the EPA action level?

Yes  No

(See requirements in Sec. IV, H.4)

k. A "Recorded Land Records" search was performed?

Yes  No Pg. 19

(See requirements in Sec. IV, C)

l. A Phase II investigation is required?

Yes  No Pg. 28

(See requirements in Sec. V)


m. A Tier I and non-invasive Tier II Vapor Encroachment Screen were performed?  
 Yes  No Pg. 33  
(See requirements in Sec. IV, H.10)

n. A Vapor Encroachment Condition (VEC) was identified. An invasive Tier II investigation is recommended.  
 Yes  No Pg. 33  
(See requirements in Sec. IV, H.10)

**2. Report Documentation Check List. If any of the responses below are "NO," do not submit report.**

- a. MSHDA Phase I Letter of Reliance completed?  Yes  No
- b. User's Disclosure Statement completed?  Yes  No
- c. Compliant ACORD 25 Certificate of insurance included?  Yes  No
- d. FEMA Flood Plain Map Included?  Yes  No
- e. Fire Insurance Maps or No Coverage Letter Included?  Yes  No
- f. Development Site Plan Included?  Yes  No
- g. Site boundaries indicated on all maps and photos?  Yes  No

I represent that this Summary Cover Sheet accurately reflects the environmental information contained in the above captioned document.

  
\_\_\_\_\_/2-21-19\_\_\_\_\_  
Signature of Environmental Professional      Date      Anthony Spencer  
Print or Type Legal Name



Phase I Environmental Site Assessment  
2.8 Acres of Vacant Land  
7850 E. Jefferson Avenue  
Detroit, Michigan

January 11, 2019

**Report Prepared For:**

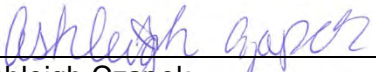
GDC-East Jefferson, LLC  
41800 W. 11 Mile Road Suite 209  
Novi, Michigan 48375  
and  
Michigan State Housing Development Authority  
735 E. Michigan Avenue  
Lansing, Michigan 48912

**Report Prepared By:**

ASTI Environmental  
10448 Citation Drive, Suite 100  
Brighton, Michigan 48116  
1-800-395-ASTI

**ASTI Project No. 1-10105**

Report Prepared by:

  
\_\_\_\_\_  
Ashleigh Czapek  
Associate I

  
\_\_\_\_\_  
Anthony Spencer, EP  
Associate II



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10.6	Interview Documentation: MSHDA User's Questionnaire, Site Manager's Questionnaire, and Development Plan	
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## **1.0 EXECUTIVE SUMMARY**

ASTI Environmental (ASTI) was retained by GDC-East Jefferson, LLC to conduct a Phase I Environmental Site Assessment (ESA) of 2.8 acres of an overall 3.7 acre property, 7850 E. Jefferson Avenue, Detroit, Wayne County, Michigan (Subject Property). The remaining .09 acres is part of the Detroit River and is not required to be covered in this Phase I ESA. The Phase I ESA was conducted in accordance with American Society for Testing and Materials (ASTM) Practice E1527-13 and the Michigan State Housing Development Authority (MSHDA) Environmental Review Requirements for 2018. The information and opinions rendered in this report are exclusively for reliance by GDC-East Jefferson, LLC, Cinnaire Development Management Finance, LLC and MSHDA, and ASTI will not distribute or publish this report without the consent of GDC-East Jefferson, LLC, except as required by law or court order. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied, are made.

The Phase I ESA included (1) a site inspection on December 28, 2018, (2) interviews with knowledgeable site contacts, (3) review of pertinent Michigan Department of Environmental Quality (DEQ), Department of Licensing and Regulatory Affairs (LARA), Wayne County, and City of Detroit information, (4) acquisition and review of a federal and Michigan database search, (5) review of historical aerial photographs, Sanborn maps, and city directories, (6) FEMA Map search and National Wetlands Inventory map review, and (7) Noise Assessment.

No testing or sampling of materials (for example, soil, water, and air) was included in this assessment. No limiting conditions were identified during the site reconnaissance, except for those described in Section 6.1. The temperature was approximately 48 °F and rainy.

### **1.1 Summary and Conclusions**

A detailed summary of the findings of this Phase I ESA can be found in Section 8.1.

We have performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E1527-13 and MSHDA requirements of the 2.8 acres of an overall 3.7 acres of vacant land, 7850 E. Jefferson Avenue, Detroit, Wayne County, Michigan (Subject Property). Any exceptions to, or deletions from, this practice are described in Section 5.4 of

this report. This assessment has revealed no evidence of recognized environmental conditions (RECs) in connection with the Subject Property, except for the following.

- Based on the laboratory analytical results for the soil samples collected at the Subject Property during the Limited Subsurface Investigation dated April 25, 2017, ASTI opines that the Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). The facility-level concentrations of metals, at the Subject Property are representative of a release.

### **1.2 Data Failure Points**

Refer to Section 8.4 for a discussion regarding data failures and/or data gaps encountered during the investigation.

### **1.3 Identified Liens or Activity Use Limitations**

The DEQ Remediation and Redevelopment Division (RRD) maintains a list of properties that have perfected environmental liens on file with the DEQ. The Subject Property was not on the list as of the last update dated November 2, 2018 (Appendix 10.5).

Based on a review of the government records search for the Subject Property provided from EDR and information provided on the User Questionnaire, there are no activity and use limitations (AULs) against the Subject Property.

## 2.0 INTRODUCTION

ASTI Environmental (ASTI) was retained by GDC-East Jefferson, LLC to conduct a Phase I Environmental Site Assessment (ESA) of 2.8 acres of an overall 3.7 acre property, 7850 E. Jefferson Avenue, Detroit, Wayne County, Michigan (Subject Property). The Phase I ESA was conducted in accordance with the American Society for Testing and Materials (ASTM) *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process* (E1527-13), 40 CFR Part 312: Standards and Practice for All Appropriate Inquiries; Final Rule (AAI), and the Michigan State Housing Development Authority (MSHDA) Environmental Review Requirements for 2018.

### **2.1 Purpose**

The assessment was conducted to identify *recognized environmental conditions*, (RECs), *historical recognized environmental conditions* (HRECs), and *controlled recognized environmental conditions* (CRECs) associated with the historical uses of the Subject Property, current site operations, and the condition of surrounding properties. ASTI understands that the findings of this study will be used for a LIHTC submittal to MSHDA. This Phase I ESA can be also used by GDC-East Jefferson, LLC and Cinnaire Development Management Finance, LLC to qualify for one of three landowner liability protections (contiguous property owner, innocent landowner, or bona fide prospective purchaser) available under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 as amended, and may also be used to qualify for State of Michigan liability defenses and exemption that may be available under Part 201 of the Natural Resources and Environmental Protection Act.

According to ASTM Practice E1527-13, the term *recognized environmental condition* is defined as the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

## **2.2 Detailed Scope of Services**

Information required to complete the ESA was obtained from personal interviews and review of practically reviewable and reasonably ascertainable records. Informational sources include the following:

- User's Environmental Questionnaire;
- Owner's Questionnaire
- DEQ Perfected Environmental Liens (11-2-18);
- Department of Environmental Quality (DEQ);
- Department of Licensing and Regulatory Affairs (LARA);
- available records maintained by the Detroit and Wayne County;
- The EDR Radius Map Report with GeoCheck (12-12-18);
- aerial photographs;
- Sanborn maps;
- city directories;
- Noise Assessment;
- FEMA; and
- U.S. Fish and Wildlife Service NWI Map.

Ms. Laura Gray inspected the Subject Property on December 28, 2018 under the direction of Mr. Anthony Spencer, Environmental Professional. Ms. Ashleigh Czapek and Mr. Anthony Spencer completed report preparation. Copies of Ms. Czapek's and Mr. Spencer's resumes are provided in Appendix 10.8.

## **2.3 Significant Assumptions**

Information obtained during this assessment, to the extent it was relied on to form our opinion, was assumed to be complete and accurate. ASTI cannot be held responsible for the quality or content of information obtained from interviews and standard sources. Since ASTI cannot warrant or guarantee that the information provided by interviews and standard sources is accurate or complete, the intention of this Phase I ESA is to reduce, but not eliminate, uncertainty for the potential for RECs, HRECs, and CRECs on the Subject Property.



## **2.4 Limitations and Exceptions**

The information and opinions included in this report were given in response to a limited scope of work being a Phase I ESA per ASTM Practice E1527-13 and MSHDA Environmental Review Requirements for 2018, and should be considered and implemented only in light of that particular scope of work. The services provided by ASTI in completing this assessment have been provided in a manner consistent with the normal standards of the profession. No other warranties, expressed or implied, are made.

No testing or sampling of materials (for example, soil, water, and air) was included in this assessment. No limiting conditions were identified during the site reconnaissance, except for those described in Section 6.1. The temperature was approximately 48 °F and rainy.

Responses received from regulatory agencies or other secondary sources of information after the issuance of this report may alter the facts, findings, conclusions, or recommendations to this ESA.

## **2.5 Special Terms and Conditions**

The Phase I ESA was performed in conformance with the scope and limitations of ASTM Practice E1527-13, AAI, and MSHDA Environmental Review Requirements for 2018. No special terms and conditions outside ASTM Practice E1527-13, AAI, and MSHDA Requirements have been addressed. Under the AAI Rule and ASTM Practice E1527-13, all appropriate inquiries must be conducted within one year prior to the date of transaction of the Subject Property. However, certain components of the all appropriate inquiries (interviews, liens searches, records review, and visual inspections) must be conducted or updated within 180 days prior to the date of the Subject Property transaction.

## **2.6 User Reliance**

The Phase I ESA was performed for the benefit of GDC-East Jefferson, LLC, Cinnaire Development Management Finance, LLC and MSHDA, and ASTI acknowledges that said parties may rely on the contents and conclusions presented in this report. ASTI acknowledges the fact that the scope of work was sufficient in ASTI's opinion to uncover, to the extent of ASTI's services, potential environmental liabilities at the Subject Property.

This effort was performed per authorization of GDC-East Jefferson, LLC on December 11, 2018. The information and opinions rendered in this report are exclusively for use by GDC-

East Jefferson, LLC, Cinnaire Development Management Finance, LLC and MSHDA. ASTI will not distribute or publish this report without the consent of GDC-East Jefferson, LLC, except as required by law or court order.

Any use a third party makes of this report, or any reliance upon it, or any decisions based on it, is the sole responsibility of the third party. A third party is not afforded the status of a third party beneficiary unless ASTI expressly agrees to such status in writing. ASTI has no responsibility for any damages that may be suffered by a third party as a result of any decision made, or action taken by a third party, based on this report.

### 3.0 SITE DESCRIPTION

#### 3.1 Location and Legal Description

<b>General Location</b>	A Site Location Map is provided in Appendix 10.1.
<b>Quarter Section, Township and Range</b>	Southwest ¼ of Section 2, T2S and R12E
<b>City/Township, County, State Zip Code</b>	Detroit, Wayne County, MI, 48214
<b>Parcel Number(s)</b>	17000017

Current assessing records with parcel legal descriptions are included in Appendix 10.5.

#### 3.2 Site and Vicinity General Characteristics

<b>Subject Property Zoning</b>	R-6-High density residential district
<b>Local Development Utilization</b>	Residential and commercial

A Site Features Map is included in Appendix 10.2. Photographs of the Subject Property and adjoining properties were taken during the site inspection and are provided as Appendix 10.3.

#### 3.3 Current Use of the Subject Property

The Subject Property is currently vacant land and has no obvious use.

#### 3.4 Descriptions of Structures, Roads, Other Improvements on the Site

Below is summary of the Subject Property improvements.

<b>Roads and Other Improvements</b>	
<b>Access</b>	Access is available from East Jefferson Ave.
<b>Paved Areas</b>	There is a crescent shaped paved path through the northern section of the Subject Property.
<b>Maintained Lawn</b>	Most of the Subject Property is green space.
<b>Landscaped Areas</b>	None
<b>Surface Water</b>	None, but the Detroit River borders to the south.

<b>Municipal Services and Utilities</b>			
<b>Service or Utility</b>	<b>Present</b>	<b>Provider</b>	<b>Comments</b>
Potable Water Source	No		Available
Irrigation Well	No		
Sewage	No		Available
Storm Sewer	No		Available
Electrical	No		Available
Natural Gas	No		Available
Solid Waste Disposal	No		
Heating & Cooling	No		

There was no indication or evidence of the former presence of potable wells or septic systems on the Subject Property. A current or prior heating source other than natural gas has not been identified through a review of reasonably ascertainable records.

**3.5 Current Uses of Adjoining Properties**

ASTI observed adjoining properties during the inspection to evaluate the potential risk these properties may pose to the Subject Property.

<b>Adjoining Property Use</b>			
<b>Direction from Property</b>	<b>Occupant &amp; Address</b>	<b>Use</b>	<b>Potential Concerns Observed During Site Reconnaissance</b>
North	Riverview Medical Offices 7815 E. Jefferson	Medical offices	None
	Belle Isle Pizza 7869 E. Jefferson	Restaurant	
	Jefferson Liquor Mart and Boost Mobile 7875 E. Jefferson	Alcohol store and cell phone store	
	Vacant structure	None	
South	Detroit River	None	None
East	International U.A.W. Federal Credit Union 8000 E. Jefferson	Credit union	None
West	River Tower Apartments 7800 E. Jefferson	Apartments	None

#### **4.0 USER PROVIDED INFORMATION**

In order to qualify for one of the landowner liability protections offered by the Small Business Liability Relief and Brownfield's Revitalization Action of 2001, the User, defined by ASTM as *the party seeking to use Practice E1527 to complete an environmental site assessment of the Subject Property*, has specific obligations for completing a successful application of this practice as outlined in Section 6 of ASTM E1527-13. Failure to provide information regarding the obligations outlined to the Environmental Professional may result in a determination that AAI is not complete.

Mr. Nathan Keup representing GDC-East Jefferson, LLC, completed a User's Questionnaire. A copy of the User's Questionnaire is provided in Appendix 10.6.

#### **4.1 Title Records**

A title search was not included in the scope of this Phase I ESA.

#### **4.2 Environmental Liens or Activity and Use Limitations**

Mr. Keup was not aware of any environmental liens or activity and land use limitations.

#### **4.3 Specialized Knowledge**

Mr. Keup does not have any specialized knowledge or experience related to the Subject Property or nearby properties that might help ASTI identify a potential REC.

#### **4.4 Commonly Known or Reasonably Ascertainable Information**

Mr. Keup does not have any commonly known or reasonably ascertainable information indicative of releases or threatened releases on the Subject Property.

#### **4.5 Valuation Reduction for Environmental Issues**

According to Mr. Keup, the purchase price represents the fair market value.

#### **4.6 Owner, Property Manager, and Occupant Information**

The Subject Property is owned by Shamrock Acquisitions, LLC. Additional interview information is provided in Section 7.0.

#### **4.7 Reason for Performing Phase I ESA**

ASTI understands that the findings of this study will be used for a LIHTC submittal to MSHDA. This Phase I ESA can be also used by GDC-East Jefferson, LLC to qualify for one of three landowner liability protections (contiguous property owner, innocent landowner, or bona fide prospective purchaser) available under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 as amended, and may also be used to qualify for State of Michigan liability defenses and exemption that may be available under Part 201 of the Natural Resources and Environmental Protection Act.

#### **4.8 Other**

No other information was provided by Mr. Keup.

## 5.0 RECORDS REVIEW

### 5.1 Standard Environmental Record Sources

ASTI ordered a government records search for the Subject Property from Environmental Data Resources, Inc. (EDR) in Shelton, Connecticut. A copy of The EDR Radius Map Report with GeoCheck dated December 12, 2018, is included in Appendix 10.5. A description of the databases, search distances, and results are presented in the report.

<b>ASTM-Required Databases</b>			
<b>Database List (ASTM Required Search Distance)</b>	<b>Subject Property Listing</b>	<b>Adjoining Property Listing</b>	<b>Total Applicable ASTM Listings</b>
Federal NPL/State Hazardous Waste Site (1 mile)	No	No	0
Delisted NPL (0.5 mile)	No	No	0
Federal/State/Tribal Equivalent SEMS (0.5 mile)	No	No	0
Federal SEMS Archive (0.5 mile)	No	No	1
Federal RCRA CORRACTS (1 mile)	No	No	0
Federal TSD Facility (0.5 mile)	No	No	0
Federal RCRA Generator (Subject Property/Adjoining)	No	No	0
Federal Inst./Eng. Controls (Subject Property only)	No	No	0
Federal ERNS (Subject Property Only)	No	N/A	0
State/Tribal Landfill or Solid Waste Facility (0.5 mile)	No	No	0
State/Tribal LUST (0.5 mile)	No	Yes(1)	7
State/Tribal Registered UST (Subject Property/Adjoining Properties)	No	Yes	1
State/Tribal Inst./Eng. Controls (Subject Property only)	No	N/A	0
State/Tribal Voluntary Cleanup Sites (0.5 mile)	No	No	0
State/Tribal Brownfield Sites (0.5 mile)	No	No	1

Refer to the EDR report Executive Summary for abbreviation descriptions.



<b>Supplemental Databases Selected by Environmental Professional</b>			
<b>Supplemental Database List Name (ASTI Search Distance)</b>	<b>Subject Property Listing</b>	<b>Adjoining Property Listing</b>	<b>Additional Listings in Search Distance</b>
State/Tribal - Part 201 (1 mile)	No	No	3
Michigan Baseline Environmental Assessment (BEA) Sites ( <sup>1</sup> / <sub>10</sub> mile)	Yes	No	1
Historical Auto Stations ( <sup>1</sup> / <sub>10</sub> mile)	No	Yes	3
Dry Cleaners/Historical Cleaners ( <sup>1</sup> / <sub>10</sub> mile at EP discretion/i.e. Detroit)	No	Yes	0
Additional Non-ASTM Databases (Subject Property or Adjoining Property)	Yes(1)	No	N/A
Orphans	No	No	0

#### Discussion of Subject Property Listings

The subject Property is listed with a BEA conducted in 2008 and a related Inventory listing. See section 5.4.5 for a further discussion of these listings.

#### Discussion of Off-Site Listings of Environmental Concern

Adjoining property listings are discussed below. For the remaining listings, ASTI considers select criteria to determine which listings represent an environmental concern to the Subject Property. The criteria include but are not limited to the following.

- Database type
- Topography relative to the Subject Property
- Direction and distance
- Soil profile identified in available sources
- Known or inferred groundwater depth and flow direction
- Status of applicable investigation
- Surface and subsurface conditions including but not limited to buildings, pavement, utility corridors, and surface water features
- Potable water source (well or municipal)

An evaluation of these criteria is completed to determine the level of risk associated with each listing. Listings with likely releases that are found to have the potential to represent an elevated or high risk are requested through FOIA to applicable agencies.

Using the referenced criteria and based upon the information contained within the EDR report, ASTI did identify additional listings beyond adjoining properties that were considered

to represent the potential to be an elevated or high risk to the Subject Property. Adjoining listings and these sites are discussed below.

<b>Site Name</b>	Jennings Building
<b>Databases Listing(s)</b>	LUST, UST, AIRS, WDS
<b>Location</b>	7815 E Jefferson Ave.
<b>Distance and Direction</b>	North adjoining
<b>Documentation Requested</b>	<ul style="list-style-type: none"> <li>• LARA: Michigan Department of Licensing and Regulatory Affairs</li> </ul>
<b>Summary of Findings</b>	<p>This site is listed as a UST and “closed” LUST site. The site contained a 5,000-gallon diesel UST, which was installed on May 14, 1959 and removed on October 15, 1998. During the removal, stained soils and elevated PID readings were noted. A confirmed release was submitted to the DEQ on October 15, 1998. The LUST site was closed on March 3, 1999. ASTI requested associated DEQ records from the DEQ, but they were not provided. Releases that have been granted regulatory closure have low potential for affecting offsite locations.</p> <p>Due to the soil lithology in the area, regulatory closure of the release, and the location across E. Jefferson Ave., it is unlikely that an associated release would migrate onto the Subject Property.</p>

<b>Site Name</b>	Brossy L C Dyeing Co
<b>Databases Listing(s)</b>	EDR Historic Cleaner
<b>Location</b>	7885 E Jefferson Ave.
<b>Distance and Direction</b>	North adjoining
<b>Documentation Requested</b>	None
<b>Summary of Findings</b>	This site was identified as a historical cleaner. The historical information was considered as part of the summary provided in Section 5.5.

<b>Site Name</b>	Stoepel H Robert
<b>Databases Listing(s)</b>	EDR Historic Auto Station
<b>Location</b>	7895 E Jefferson Ave.
<b>Distance and Direction</b>	North adjoining
<b>Documentation Requested</b>	None
<b>Summary of Findings</b>	This site was identified as a historical auto garage and service station. The historical information was considered as part of the summary provided in Section 5.5.

<b>Site Name</b>	Sunoco Inc., Marine Pollution Control, McIntosh Super Service, Duncan Service
<b>Databases Listing(s)</b>	LUST, UST, FINDS, WDS, Financial assurance, Inventory, RCRA-NonGen, ECHO, EDR Historic Auto
<b>Location</b>	8005 E Jefferson Ave.
<b>Distance and Direction</b>	~approximately 300 feet to the northeast
<b>Documentation Requested</b>	<ul style="list-style-type: none"> <li>• <i>RRD</i>: Remediation and Redevelopment Division of the DEQ</li> </ul>
<b>Summary of Findings</b>	<p>The site is listed as an “open” LUST site. Multiple confirmed releases have occurred on the site, 1990, 2000, 2001, 2002 and 2018. All were gasoline or diesel related except for the 2001 release which was used oil. The 1990 release was closed in 1999. Closure reports were reviewed for the 1990 and 2000/2001 releases. Soil boring logs from the 2000/2001 closure report indicate that the soil is mostly clay. The nearest detections to the Subject Property are ~ 400 feet to the northeast and are under the cleanup criteria for direct contact and volatilization to indoor air inhalation.</p> <p>Due to the soil lithology, reviewed DEQ records, the distance, and location across E. Jefferson Ave., it is unlikely that an associated release would migrate onto the Subject Property.</p>

## **5.2 Additional Environmental Record Sources**

### Michigan Oil and Gas Wells

Based on a review of the DEQ GeoWebFace search system and EDR report, no oil or gas wells were identified on or adjoining to the Subject Property.

### County and Local Records Review

ASTI requested information for the Subject Property from the Wayne County Department of Public Services. A response was received on December 14, 2018 indicating that no records were found (Appendix 10.5).

A Freedom of Information Act request for Detroit Fire Department records for the Subject Property was submitted. A response was received on January 8, 2019 indicating that no records were found (Appendix 10.5).

Assessing Department files were available for review. A current assessing record is provided in Appendix 10.5

Building Department permits from Detroit were reviewed. General building permits were issued for the Subject Property, no environmental concerns were noted.

City of Detroit, Safety Engineering and Environmental Department Oil Tank Card Records were reviewed.

A 220-gallon heating tank was listed in the basement of the Subject Property in 1931.

The north adjoining property at 7875 E. Jefferson, listed a leaking underground storage tank in Section 5.1, had two 220-gallon tanks installed in 1952 and two 220-gallon tanks installed in 1953. At 7895 E. Jefferson, another north adjoining site, the location was listed as having 220- and 440-gallon tanks in the basement and a 2,000-gallon UST in 1927; two 220-gallon tanks in the basement in 1933 and 1934; and one 220-gallon tank in 1935.

The east adjoining property at 7900 E. Jefferson is listed as having an outdoor 2,000-gallon UST in 1929; one 220-gallon tank in the basement in 1948 and a 1,000-gallon UST in 1949. No further information was provided for the current status of the USTs. Due to soil lithology and inferred groundwater flow direction to the southeast, it is unlikely that any associated release would migrate onto the Subject Property.

**5.3 Physical Setting Sources**

A Physical Setting Sources Map, which includes an overlay of the United States Geological Survey (USGS) topographic map (7.5-minute series) for the Belle Isle, Michigan quadrangle, which includes the Subject Property, is provided in the EDR report in Appendix 10.5. The USGS map is also the basis of the Site Location Map in Appendix 10.1.

<b>Average Elevation (feet above mean sea level)</b>	582 ft
<b>Local Gradient</b>	The topography of the Subject Property declines to the southeast.
<b>Regional Gradient</b>	The topography of the regional area declines to southeast.
<b>Nearest Surface Water Body</b>	The Detroit River to the southeast
<b>Groundwater Depth</b>	According to a limited subsurface investigation conducted on the Subject Property in 2017, 8 to 12 feet below ground surface (bgs). It was present at four of five sampling locations in a sand layer or seam that is apparently discontinuous.
<b>Groundwater Flow Direction</b>	Groundwater flow is inferred to the southeast

Soil composition information for the Subject Property is included in the EDR report (Appendix 10.5). The soil component for the Subject Property is described as follows.

Soil Component	Soil Texture	Infiltration Rate	Drainage	Hydric
Urbanland	Variable	Not reported	Not reported	No

During a limited subsurface investigation conducted on the Subject Property (refer to Section 5.4.5), the subsurface lithology encountered in the soil borings, underlying surface cover (topsoil), generally consisted of fill materials varying in composition from sand to silty-clay and extended to depths between 4 feet and 13 feet bgs. The fill materials contained varying amounts of debris consisting of brick, concrete, foundry sand, and slag.

#### **5.4 Historical Use Information on the Subject Property**

*Reasonably ascertainable* standard historical sources as found in Section 8.3.4 of ASTM Practice E1527-13 were used to determine the previous use of the Subject Property and surrounding area. A chronological summary of the sources used may include, but is not limited to aerial photographs, Sanborn maps, city directories, agency records, and prior environmental assessments. ASTI made a *good faith* effort to identify the obvious uses of the Subject Property from the present back to the Subject Property's first developed use, or back to 1940, whichever is earlier. *Data Failures* were encountered as part this assessment and are discussed as data gaps in Section 8.4.

##### **5.4.1 Aerial Photographs**

ASTI reviewed available aerial photographs of the Subject Property area provided by EDR. Copies of the aerial photographs are included in Appendix 10.4. The aerial photographs are summarized as follows.

Year	Observations
1937	General area: Roadways and buildings are evident.
	Subject Property: A building is evident to north with associated driveway to the east.
	North adjoining: Building and parking areas are evident beyond E Jefferson Ave.
	East adjoining: A vacant parcel is evident.
	South adjoining: The Detroit River is noticeable.

Year	Observations
	West adjoining: Blurry photograph, driveways are evident.
1949	Subject Property: The building appears to be improved with an extra driveway to the west and a new building is evident to the south.
	North adjoining: No significant change is evident.
	East adjoining: New building is evident.
	South adjoining: West adjoining: Artificial filling was added to extend the surface area. New building complex is evident, with associated parking
1952	No significant change is evident.
1961	No significant change is evident.
1972	Subject Property: No significant change is evident.
	North adjoining: No significant change is evident.
	East adjoining: No significant changes are evident.
	South adjoining: No significant changes are evident. West adjoining: No significant changes are evident.
1987, 1997, 1999, 2005, 2009, 2012, 2016	No significant changes are evident.

#### 5.4.2 Sanborn Maps

ASTI reviewed available Sanborn maps of the Subject Property area provided by EDR. Copies of the Sanborn maps are included in Appendix 10.4. The maps are summarized as follows.

Year	Observations
1887	General area: Roadways, alleys, buildings, and the Detroit River are evident.
	Subject Property: A duplex is depicted with a garage structure to the south.
	North adjoining: Vacant parcels were depicted.
	East adjoining: A vacant parcel was identified.
	South adjoining: The Detroit River is evident. West adjoining: A dwelling and a bowling alley were present.
1910	Subject Property: The duplex was expanded into one large dwelling with an underground passage, a second dwelling, a greenhouse, and a boathouse to the south. A 50-gallon gasoline tank was present to the west of the garage.
	North Adjoining: Dwelling and vacant parcels were present.
	East adjoining: Dwelling and carriage house were present.
	South adjoining: The Detroit River is evident. West adjoining: The bowling alley structure was converted to a dwelling.
1915	Subject Property: No significant changes were identified except for a dock area addition and boilers identified in the southwest dwelling.
	North adjoining: No significant changes.
	East adjoining: No significant changes.

Year	Observations
	South adjoining: No significant changes.
	West adjoining: No significant changes.
1941	Subject Property: Previous dwelling was changed to Colony Town Club.
	North adjoining: A hospital, stores and apartments are identified. A filling station with four USTs was also present to the northeast at 7885-7895 E. Jefferson Ave.
	East adjoining: Previous dwelling was changed to Chrysler Corp. Sales Training School.
	South adjoining: No significant changes.
	West adjoining: The dwellings were removed and the area is vacant.
1951	Subject Property: Colony Town Club was changed to Detroit Medical Hospital and the dock area was removed.
	North adjoining: No significant changes.
	East adjoining: A large boat house was constructed on the waterfront.
	South adjoining: No significant changes.
	West adjoining: No significant changes.
1953	No significant changes were evident.
1957	
1961	Subject Property: No significant changes.
	North adjoining: The hospital was expanded to the east and the filling station and USTs to the northeast were removed.
	East adjoining: No significant changes.
	South adjoining: No significant changes.
	West adjoining: No significant changes.
1977	Subject Property: All structures were removed from the Subject Property.
	North adjoining: No significant changes.
	East adjoining: The Chrysler Corp. building was labeled as vacant. The remainder of the parcel is labeled as parking.
	South adjoining: No significant changes.
	West adjoining: The River Towers and associated parking was present.
1989	Subject Property: No significant changes.
	North adjoining: No significant changes.
	East adjoining: The vacant building was removed.
	South adjoining: No significant changes.
	West adjoining: No significant changes.
1991	No significant changes.
1996	
2002	

### 5.4.3 City Directories

A city directory search was conducted by EDR (Appendix 10.4). Findings are incorporated into Sections 5.3.5 and 5.3.6.

### 5.4.4 Title Search

A title search was not included in the scope of this Phase I ESA.

#### 5.4.5 Prior Environmental Investigations

##### NTH, 2007-2008

A Phase II ESA report was completed at the Subject Property by NTH Consultants, LTD (NTH) on October 12, 2007. The Phase II ESA was conducted to evaluate the following recognized environmental conditions (RECs) identified in NTH's Phase I ESA of the Subject Property dated September 11, 2007. A copy of these reports is provided in the Tab Attachments.

- The Subject Property formerly contained several structures, at least one of which had a basement. No information was available regarding the nature or source of the fill materials used to fill in the basements of the former structure(s).
- Review of available historical sources indicated that two storage tanks were present at the Subject Property with no detailed information available as to the current status or removal of the tanks.
- Review of available historical sources indicated that the southern 1/3 of the Subject Property was filled in sometime in the late 1800s or 1900s. In addition, fill soils containing debris were encountered during NTH's concurrent geotechnical investigation. No information was available as to the nature or source of the fill materials.

At the time, the Phase II ESA identified arsenic, chromium, and mercury in soil at concentrations above the Michigan Department of Environmental Quality's (MDEQ)'s Part 201 generic residential cleanup criteria (GRCC) for drinking water protection and groundwater surface water interface protection criteria. The Subject Property was determined to be a "*facility*" as defined in Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201).

Based on the results of the Phase II ESA, NTH conducted a Baseline Environmental Assessment (BEA) of the Subject Property in January 2008, which was affirmed on February 1, 2008. A Geophysical Survey was also conducted during the Phase II ESA and no underground storage tanks were identified. ASTI was unable to review this document. It was likely based on the laboratory information provided in the 2007 Phase II.



#### ASTI, 2017

ASTI conducted a limited subsurface investigation at the Subject Property and the report is dated April 25, 2017. On April 7, 2017, ASTI advanced five soil borings (SB-1 through SB-5) at the Subject Property using a direct-push Geoprobe<sup>®</sup> drill rig. At the time, the laboratory analytical results reported the metals mercury, arsenic and lead at concentrations exceeding the generic residential cleanup criteria (GRCC) for direct contact. The detected arsenic was determined to be below normal background concentrations in the area.

The Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). A Baseline Environmental Assessment (BEA) is not applicable for the current owner, but could be prepared for a new ownership entity.

ASTI recommended the preparation of a Due Care Plan to document the procedures to follow to avoid exacerbation of or exposure to existing contamination during redevelopment and future use of the Subject Property.

A Due Care Memo was completed on May 3, 2017. Based on the information provided to ASTI for preparation of the Due Care Memo, the likely applicable pathways for due care would be the soil volatilization to indoor air inhalation (SVIAI), particulate soil inhalation (PSI), and direct contact (DC). Based on the limited sampling completed, there is a potential unacceptable risk due to the detection of lead above the GRCC for DC.

#### **5.4.6 Summary of Historical Uses on the Subject Property**

Based on review of the obtained historical sources, the historic use(s) of the Subject Property is summarized as follows.

The Subject Property contained a residential dwelling and outbuildings by 1888. The southern portion was filled sometime in the late 1800's or early 1900's. By 1935, the northern portion contained a clubhouse building identified as the Colony Town Club and the southern portion contained a residential dwelling and associated outbuildings. By the mid 1940's the northern portion was developed with a building used as a hospital and as a youth home. The Subject Property has remained vacant since approximately 1977.

The southern portion of the Subject Property was filled in sometime in the late 1800s or early 1900s. No information was available about the fill material used, the use of unknown fill materials is considered a REC.

**5.5 Historical Use Information on Adjoining Properties**

Based on review of the obtained historical sources, the historic uses of adjoining properties are summarized as follows.

<b>Summary of Historic Uses of Adjoining Properties</b>	
<b>Direction</b>	<b>Historical Use Summary</b>
North	<p>The property was developed with a residential structure in the early 1900s. By the early 1930s the area was developed with a hospital and several commercial structures. Over the years these structures housed a variety of commercial ventures including, a florist, restaurants, drug store, dying company, an auto garage, filling station, dry cleaners, automotive parts sales, bait and tackle shop and an investment company.</p> <p>Concerns associated with the former gas station and auto repair include underground storage tank systems including tanks, pumps, and associated piping for petroleum products such as gasoline, diesel, fuel oil, and used oil; the use of in-ground hoists; and spills associated with auto repair operations such as oils and solvents.</p> <p>Releases are commonly associated with the use of white gas and/or solvents at dry cleaners.</p> <p>Based on reviewed reports from Section 5.4.5, soil lithology, distance to the operations, and the location across E Jefferson Ave., it is unlikely that an associated release would migrate onto the Subject Property from sites to the north.</p>
East	<p>The property is developed with a residential dwelling, outbuilding and boathouse in the early 1900s. By 1940, the residence had been converted to the Chrysler Corporation Sales Training School. A large boat house was constructed on the water for the Chrysler corporation in the early 1950s. By the 1970s, the Chrysler Corp. building was vacant and the southern portion of the property had been acquired by the U.A.W. Headquarters to the east. In the early 1980s the structure was demolished and the area was paved for parking. The current structure I still used by the U.A.W.</p>
South	<p>The area to the south is the Detroit River.</p>
West	<p>By at least 1987, there was a bowling alley and residential structure. By the early 1900s, the bowling alley was converted to a residential structure. Between 1915 and the mid-1930s the two structures were removed. In the late 1960s/early 1970s the current apartment tower was constructed.</p>

## 6.0 SITE RECONNAISSANCE

### 6.1 Methodology and Limiting Conditions

<b>Assessor Name and Title</b>	Laura Gray, Environmental Technician
<b>Date of Inspection</b>	December 28, 2018
<b>Weather Conditions</b>	48°F and rainy
<b>Methodology</b>	Inspected exterior of the Subject Property, including all property boundaries, and adjoining properties from Subject Property and public access areas.
<b>Access Limitations</b>	Some areas of overgrown vegetation, trash and debris. An encampment of setup within a wooded area of the Subject Property.

### 6.2 General Site Settings

<b>General Location</b>	A Site Location Map is provided in Appendix 10.1
<b>City/Township, County, State Zip Code</b>	Detroit, Wayne County, Michigan 48214
<b>Acreage</b>	2.8 of 3.7 acres
<b>Local Development Utilization</b>	Residential and commercial

### 6.3 Exterior Observations

The following table summarizes the site exterior observations. Items observed are discussed further following the table.

<b>Category</b>	<b>Item</b>	<b>Item Observed</b>
Above Ground Hazardous Substances and Petroleum Products	Drums, barrels or containers ≥5 gallons in connection with identified uses	No
	Drums, barrels or containers ≥5 gallons not in connection with identified uses	No
	Unidentified Substance Containers	No
	ASTs	No
Underground Hazardous Substances and Petroleum Products	USTs (fill ports and/or vent pipes)	No
	Fuel dispensers	No
	Natural gas or petroleum pipelines/wells	No
Basic & Specialized Systems (Electrical, Hydraulic, Refrigeration, & PCBs)	Pole-mounted transformers	No
	Pad-mounted transformers	No
	Capacitors	No
	Hydraulic equipment	No

Category	Item	Item Observed
	Emergency generator	No
	High-power transmission lines (EMF)	No
Indications of Releases or Potential Releases	Stained soil or pavement	No
	Stressed vegetation	No
	Pools of liquid	No
	Strong or pungent odors	No
	Filled Land	No
	Unregulated/Unauthorized Waste Disposal	Yes
Drainage & Waste Collection Systems	Pits	No
	Ponds	No
	Lagoons	No
	Sumps	No
	Storm water collection basins	No
	Monitor wells	No
	Dry wells/crocks	No
	Oil-water separators	No
	Regulated/Authorized Waste Removal (Dumpsters)	No
Other Notable Items		

Items noted as not observed do not fully warrant that these items are not present on the Subject Property as some items may not have been readily observable.

#### **6.4 Interior Observations**

The Subject Property is currently vacant land. However, there are remnants of a former brick shed or garage structure on the southeast border of the Subject Property.

## **7.0 INTERVIEWS**

### **7.1 Interview with Owner**

The Subject Property is owned by Shamrock Acquisitions, LLC. An Owner Questionnaire was completed by Mr. Matthew Duffield on January 10, 2019 (Appendix 10.6). Mr. Duffield stated that historical sources indicated that two storage tanks were present at the property previously and that no information available as to the current status or removal of tanks and that no tanks were visually present; he is referring to the historical tanks listed as a REC in the previous Phase I ESA. Mr. Duffield also stated that the property was historically used as a high end residence and is now vacant.

### **7.2 Interview with Key Site Manager**

Refer to Section 7.1.

### **7.3 Interview with Occupants**

The Subject Property is currently vacant.

### **7.4 Interviews with Local Government Officials**

Conversations with local government officials were limited to requesting records.

### **7.5 Interviews with Others**

No others were interviewed as part of this assessment.

## 8.0 EVALUATION

### 8.1 Findings

Historical summary

#### NTH, 2007-2008

A Phase II ESA report was completed at the Subject Property by NTH Consultants, LTD (NTH) on October 12, 2007. The Phase II ESA was conducted to evaluate the following recognized environmental conditions (RECs) identified in NTH's Phase I ESA of the Subject Property dated September 11, 2007. A copy of these reports is provided in the Tab Attachments.

- The Subject Property formerly contained several structures, at least one of which had a basement. No information was available regarding the nature or source of the fill materials used to fill in the basements of the former structure(s).
- Review of available historical sources indicated that two storage tanks were present at the Subject Property with no detailed information available as to the current status or removal of the tanks.
- Review of available historical sources indicated that the southern 1/3 of the Subject Property was filled in sometime in the late 1800s or 1900s. In addition, fill soils containing debris were encountered during NTH's concurrent geotechnical investigation. No information was available as to the nature or source of the fill materials.

At the time, the Phase II ESA identified arsenic, chromium, and mercury in soil at concentrations above the Michigan Department of Environmental Quality's (MDEQ)'s Part 201 generic residential cleanup criteria (GRCC) for drinking water protection and groundwater surface water interface protection criteria. The Subject Property was determined to be a "*facility*" as defined in Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201).

Based on the results of the Phase II ESA, NTH conducted a Baseline Environmental Assessment (BEA) of the Subject Property in January 2008, which was affirmed on February 1, 2008. A Geophysical Survey was also conducted during the Phase II ESA and

no underground storage tanks were identified. ASTI was unable to review this document. It was likely based on the laboratory information provided in the 2007 Phase II.

### ASTI, 2017

ASTI conducted a limited subsurface investigation at the Subject Property and the report is dated April 25, 2017. On April 7, 2017, ASTI advanced five soil borings (SB-1 through SB-5) at the Subject Property using a direct-push Geoprobe® drill rig. At the time, the laboratory analytical results reported the metals mercury, arsenic and lead at concentrations exceeding the generic residential cleanup criteria (GRCC) for direct contact. The detected arsenic was determined to be below normal background concentrations in the area.

The Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). A Baseline Environmental Assessment (BEA) is not applicable for the current owner, but could be prepared for a new ownership entity.

ASTI recommended the preparation of a Due Care Plan to document the procedures to follow to avoid exacerbation of or exposure to existing contamination during redevelopment and future use of the Subject Property.

A Due Care Memo was completed on May 3, 2017. Based on the information provided to ASTI for preparation of the Due Care Memo, the likely applicable pathways for due care would be the soil volatilization to indoor air inhalation (SVIAI), particulate soil inhalation (PSI), and direct contact (DC). Based on the limited sampling completed, there is a potential unacceptable risk due to the detection of lead above the GRCC for DC.

## **8.2 Opinion**

Based on the site inspection, interviews, regulatory and municipal records review, and review of historical documentation, the following is opined by the EP.

1. The EP did not identify any de minimis conditions associated with the Subject Property.
2. The EP did not identify any HRECs associated with the Subject Property.
3. The EP did not identify any CRECs associated with the Subject Property.

4. The EP identified the following RECs associated with the Subject Property, except for those listed below.

- Based on the laboratory analytical results for the soil samples collected at the Subject Property during the Limited Subsurface Investigation dated April 25, 2017, ASTI opines that the Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). The facility-level concentrations of metals, at the Subject Property are representative of a release.

### **8.3 Additional Investigation**

ASTI recommends additional investigation prior to site development.

### **8.4 Data Gaps**

Data gaps occur when the EP is unable to obtain information required despite a *good faith* effort.

Data failure is one type of data gap. According to ASTM Practice E1527-13, data failure occurs when all of the standard historical sources that are *reasonably ascertainable* and likely to be useful have been reviewed and yet the objectives have not been met. Historical sources are required to document property use back to the Subject Property's first developed use or back to 1940, whichever is earlier. A data failure occurred and is described below.

<b>Data Gap</b>	ASTI was unable to determine the first date of development.	
<b>Is this a significant data gap?</b>	No	
<b>Rationale</b>	Information from other sources provided sufficient information regarding past use.	

Additional data gaps were encountered during the investigation consisting of the following.

<b>Data Gap</b>	ASTI was unable to verify heating sources for past developments. You may discuss the tanks from past reports and owner.	
<b>Is this a significant data gap?</b>	No	
<b>Rationale</b>	It appears that heating oil was used as a fuel source prior to natural gas. If a buried heating oil fuel tank is found during any redevelopment activities, the tank should be properly	



	decommissioned with verification sampling conducted.
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<b>Data Gap</b>	ASTI was unable review certain requested records from the DEQ	
<b>Is this a significant data gap?</b>	No	
<b>Rationale</b>	Sufficient information was reviewed from other sources to determine the likelihood of a release. Should this information become available it should be reviewed.	

## **8.5 Conclusions**

We have performed a Phase I ESA in accordance with the scope and limitations of ASTM Practice E1527-13 of 2.8 acres of an overall 3.7 acre property, 7850 E. Jefferson Avenue, Detroit, Wayne County, Michigan (Subject Property). Any exceptions to, or deletions from, this practice are described in Section 5.4 of this report. This assessment has revealed no recognized environmental conditions in connection with the Subject Property, except for the following.

- Based on the laboratory analytical results for the soil samples collected at the Subject Property during the Limited Subsurface Investigation dated April 25, 2017, ASTI opines that the Subject Property is a “facility” as defined in Part 201 of Michigan’s Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). The facility-level concentrations of metals, at the Subject Property are representative of a release.

## **8.6 Additional Services**

A noise Assessment was performed by ASTI for the Subject Property.

## **8.7 Deviations**

No deletions, deviations, or additions to E1527-13 have occurred during this assessment, except for MSHDA Environmental Review Requirements for 2018.

## **8.8 References**

The following references were used in preparing this Phase I ESA.

- Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process E1527-13
- Michigan State Housing Development Authority Environmental Review Requirements for 2018

- Standard Guide for Vapor Encroachment Screening on Subject Property Involved in Real Estate Transactions: ASTM E2600-15
- The EDR Radius Map Report with GeoCheck, 12-12-18
- The EDR Aerial Photo Decade Package, 12-12-18
- EDR Certified Sanborn Map Report, 12-12-18
- The EDR-City Directory Image Report, 12-17-18
- User Questionnaire
- Owner Questionnaire
- Detroit Assessing Department
- Wayne County Department of Public Services
- Detroit Building Department
- Detroit Fire Department
- Phase I ESA, 9-11-07
- Phase II ESA, 10-12-07
- Limited Subsurface Investigation, 4-25-17
- Due Care Memo, 5-3-17
- DEQ Perfected Environmental Liens List, 11-2-18
- <http://www.deq.state.mi.us/GeoWebFace/>
- U. S. Fish and Wildlife Service
- FEMA

**8.9 Signature(s) of Environmental Professional**

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312.

I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.



Anthony Spencer, EP  
Associate II

**8.10 Qualification(s) of Environmental Professional(s)**

Ms. Anthony Spencer has been conducting Phase I Environmental Site Assessments for ASTI Environmental for seven years. Mr. Spencer has a Bachelors Degree in Environmental Science from Wayne State University.

## **9.0 NON-SCOPE SERVICES DISCUSSION**

### **9.1 Asbestos-Containing Materials (ACMs)**

There are no structures present on the Subject Property. Some building ruins remain.

### **9.2 Lead-Based Paint (LBP)**

There are no structures present on the Subject Property.

### **9.3 Radon Gas**

Wayne County is not a MSHDA radon mitigation county. Wayne County is located within EPA Radon Zone 3.

### **9.4 100-Year Floodplain**

The majority of the Subject Property is not located within a flood hazard zone per FEMA Panel 26163CO301E dated February 2, 2012; but a small portion of the southern end of the Subject Property at the riverfront is included in the 100-year floodplain (Appendix 10.7).

### **9.5 Wetlands**

A wetland delineation was not included in the scope of this Phase I ESA. No obvious wetland features were observed on the Subject Property parcel. ASTI obtained a National Wetlands Inventory map from the U.S. Fish and Wildlife Service (Appendix 10.7). No NWI wetlands were identified.

### **9.6 EMF**

No EMF lines were observed near the Subject Property.

No cell towers or roof top phone towers, antennae, or arrays were observed.

### **9.7 High Pressure Buried Gas Lines**

The Subject Property is not believed to be located within 1,000 feet of buried high-pressure gas transmission lines.

### **9.8 Noise Analysis**

One busy roadway was identified within 1,000 feet of the Subject Property and it was assessed in the Noise Assessment (Appendix 10.7). Two active airports were also noted

within the 15-mile distance criteria. Coleman A Young International Airport is located approximately 3.74 miles distant and Windsor International Airport is located 5.22 miles distant and based on the distance to these airports they are not considered a noise concern. The roadway noise was projected to levels in 2029 and was found to be within the "Normally Unacceptable" range.

#### **9.9 Assessment of Potential Vapor Encroachment Conditions, ASTM E 2600-15**

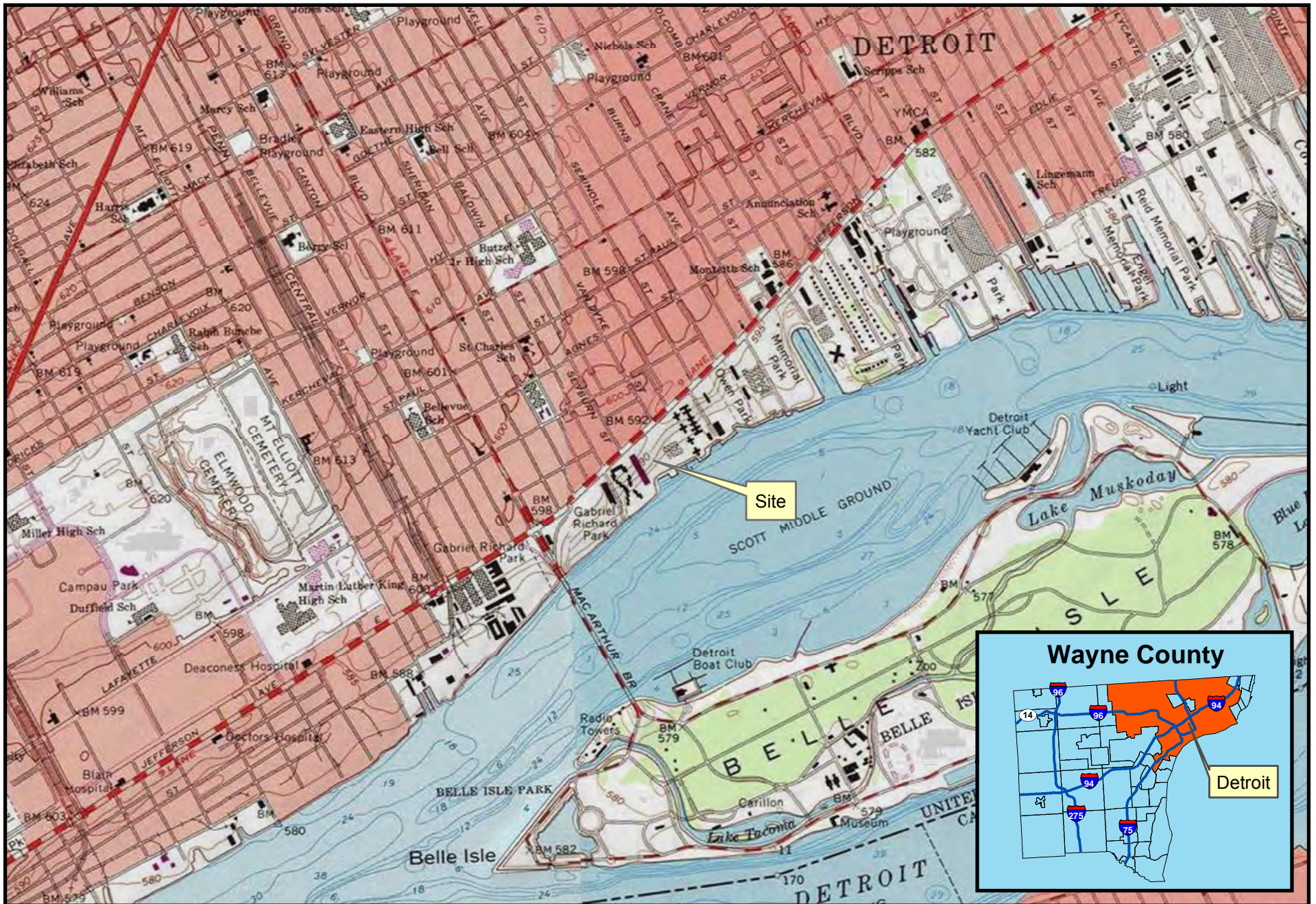
The purpose of Tier 1 and Tier 2 Non-Invasive screening is to conduct an initial screen to determine if a vapor encroachment condition (VEC) exists in connection with the Subject Property. The vapor encroachment screen (VES) is conducted in accordance with ASTM E 2600-15.

Based on the results of the Limited Subsurface Investigation conducted on the Subject Property in April 2017, mercury was identified above the GRCC. The screening process concludes that a VEC likely exists.

## 10.0 APPENDICES

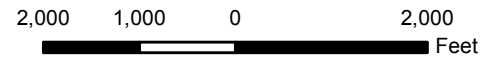
- 10.1 Site Location Map/USGS 7.5 min. Topographic Map
- 10.2 Site Features Map
- 10.3 Site Photographs
- 10.4 Historical Research Documentation: Aerial Photographs, Certified Sanborn Map Report, and City Directory Summary
- 10.5 Regulatory Records Documentation: The EDR Radius Map Report with GeoCheck, DEQ FOIA/File Documentation, Health Department Response, Assessing Records, City of Detroit Building Department Index Permit and City of Detroit, Safety Engineering and Environmental Department Oil Tank Card Records, City Of Detroit Fire Department Response and DEQ Perfected Environmental Liens
- 10.6 Interview Documentation: MSHDA User's Questionnaire, Site Manager's Questionnaire, and Development Plan
- 10.7 Special Contractual Conditions Between User and Environmental Professional: FEMA Firmette Map, National Wetlands Inventory Map, and Noise Assessment
- 10.8 Qualifications of the Environmental Professional(s)
- 10.9 MSHDA Phase I Letter of Reliance
- 10.10 Copy of Environmental Professional Insurance Certificate

**10.1 Site Location Map/USGS 7.5 min. Topographic Map**



7850 E. Jefferson Ave.

Detroit, MI



Created for: GDC-East Jefferson LLC  
 Created by: BJG, January 9, 2019, ASTI Project 1-10105

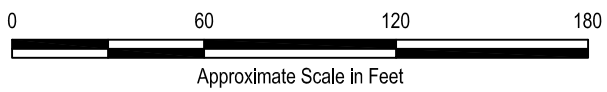
Figure 1 - Site Location Map



## **10.2 Site Features Map**



Image Credit: Google Earth



**LEGEND**  
 - - - - - Property Line

7850 E. Jefferson Ave.

Detroit, MI

Created for: GDC East Jefferson, LLC  
 ASTI Project 1-10105, MPM, January 10, 2019

### **10.3 Site Photographs**

# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 1.** The north view of the Subject Property facing south, showing a concrete paved driveway and general vegetation



**Photo 2.** The north boundary of the Subject Property facing west, showing remnants of a masonry wall



**Photo 3.** The east boundary of Subject Property, showing tall vegetation

# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 4.** The south boundary of the Subject Property



**Photo 5.** The west view of the Subject Property



**Photo 6.** Soil piles located to the north of the Subject Property

# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 7.** Masonry walls debris located to the northeast of the Subject Property



**Photo 8.** Example of asphalt patches located to the northeast of the Subject Property



**Photo 9.** Change in gradient of the Subject Property located to the south

# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 10.** Old building remains located to the southeast of the Subject Property



**Photo 11.** Fence debris located to the southeast of the Subject Property



**Photo 12.** Ground depressions located to the north toward the center of the Subject Property

# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 13.** Another example of the ground depressions



**Photo 14.** Northwest adjoining senior living community located on 7815 E Jefferson



**Photo 15.** Northeast adjoining properties located on 7869 and 7875 E Jefferson



# PHOTO LOG

7850 E Jefferson Ave, Detroit, Michigan



**Photo 16.** East adjoining Union building located at 7900 E Jefferson



**Photo 17.** West adjoining River Towers located at 7800 E Jefferson

**10.4 Historical Research Documentation:** Aerial Photographs, Certified Sanborn Maps, and City Directory Report



**7850 E Jefferson Ave**

7850 E Jefferson Ave

Detroit, MI 48214

Inquiry Number: 5509725.8

December 12, 2018

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

**Site Name:**

7850 E Jefferson Ave  
 7850 E Jefferson Ave  
 Detroit, MI 48214  
 EDR Inquiry # 5509725.8

**Client Name:**

Applied Science & Technology  
 10448 Citation Drive  
 Brighton, MI 48116  
 Contact: Laura Gray



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**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: March 28, 1999	USGS/DOQQ
1997	1"=500'	Flight Date: April 26, 1997	DTE
1987	1"=500'	Flight Date: June 17, 1987	USDA
1972	1"=500'	Flight Date: July 01, 1972	USDA
1961	1"=500'	Flight Date: May 30, 1961	DTE
1956	1"=500'	Flight Date: April 13, 1956	DTE
1952	1"=500'	Flight Date: August 17, 1952	DTE
1949	1"=500'	Flight Date: May 03, 1949	DTE
1937	1"=500'	Flight Date: July 23, 1937	USDA

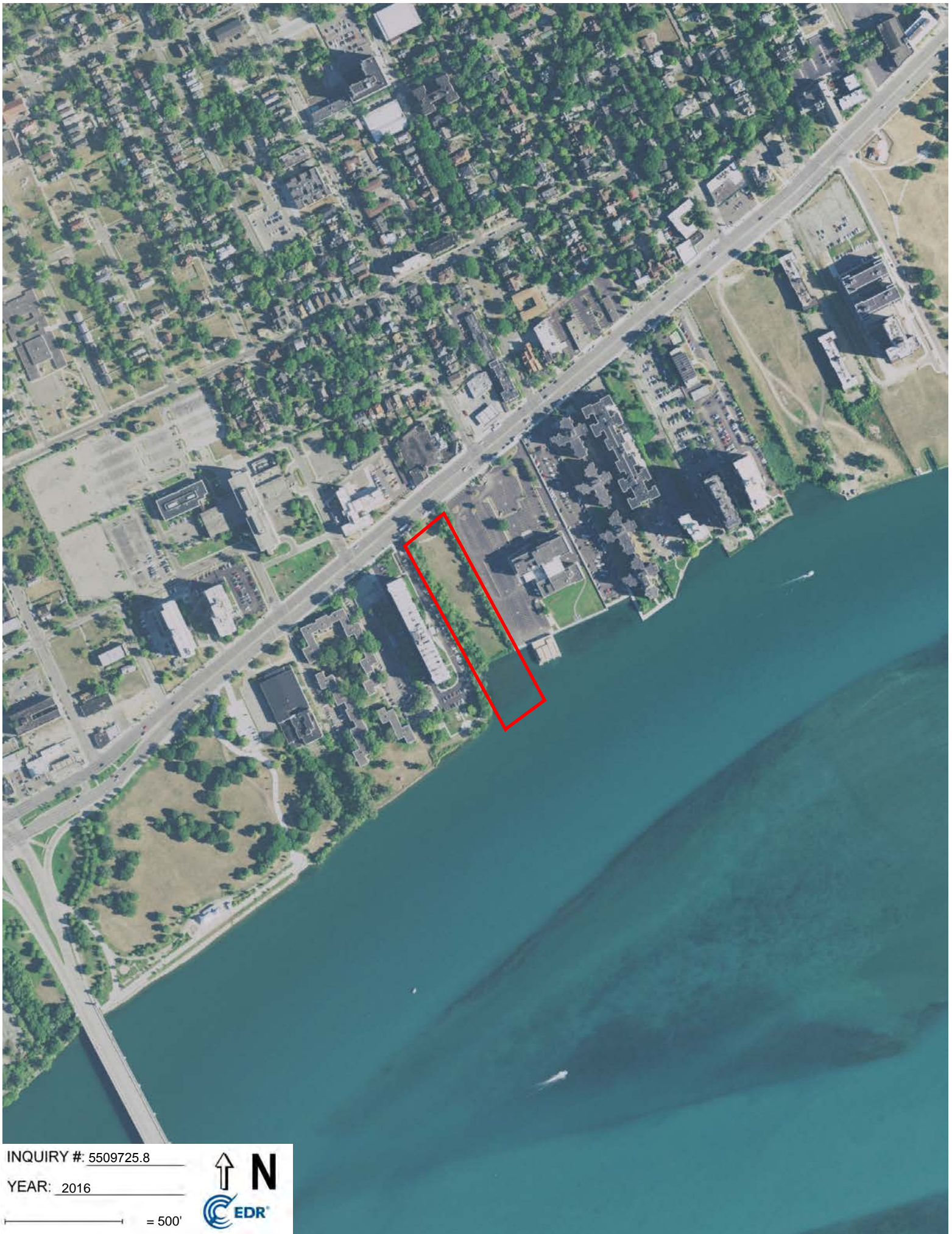
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INQUIRY #: 5509725.8

YEAR: 2016

— = 500'





INQUIRY #: 5509725.8

YEAR: 2012

— = 500'





INQUIRY #: 5509725.8

YEAR: 2009

— = 500'





INQUIRY #: 5509725.8

YEAR: 2005

— = 500'







INQUIRY #: 5509725.8

YEAR: 1999

— = 500'





INQUIRY #: 5509725.8

YEAR: 1997

— = 500'





INQUIRY #: 5509725.8

YEAR: 1987

— = 500'





INQUIRY #: 5509725.8

YEAR: 1972

— = 500'





INQUIRY #: 5509725.8

YEAR: 1961

 = 500'





INQUIRY #: 5509725.8

YEAR: 1956

— = 500'





INQUIRY #: 5509725.8

YEAR: 1952

— = 500'





INQUIRY #: 5509725.8

YEAR: 1949

— = 500'







INQUIRY #: 5509725.8  
YEAR: 1937



— = 500'

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million, and the number of people aged 75 and over has increased from 4.5 million to 6.5 million (Office for National Statistics 2000). The number of people aged 65 and over is projected to increase to 17.5 million by 2020, and the number of people aged 75 and over to 8.5 million (Office for National Statistics 2000).

There is a growing awareness of the need to address the needs of older people, and the need to ensure that they are able to live independently and actively in their own homes. This has led to a number of initiatives, including the development of the National Framework for Older People (Department of Health 1999) and the National Strategy for Older People (Department of Health 2000). The National Framework for Older People sets out the government's commitment to older people and the need to ensure that they are able to live independently and actively in their own homes.

The National Strategy for Older People sets out the government's commitment to older people and the need to ensure that they are able to live independently and actively in their own homes. It identifies a number of key areas for action, including the need to improve the quality of care for older people, to increase the number of people who are able to live independently and actively in their own homes, and to ensure that older people are able to participate fully in society.

The National Strategy for Older People also identifies a number of key areas for action, including the need to improve the quality of care for older people, to increase the number of people who are able to live independently and actively in their own homes, and to ensure that older people are able to participate fully in society. It also identifies a number of key areas for action, including the need to improve the quality of care for older people, to increase the number of people who are able to live independently and actively in their own homes, and to ensure that older people are able to participate fully in society.

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7850 E Jefferson Ave

7850 E Jefferson Ave

Detroit, MI 48214

Inquiry Number: 5509725.3

December 12, 2018

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

12/12/18

**Site Name:**

7850 E Jefferson Ave  
7850 E Jefferson Ave  
Detroit, MI 48214  
EDR Inquiry # 5509725.3

**Client Name:**

Applied Science & Technology  
10448 Citation Drive  
Brighton, MI 48116  
Contact: Laura Gray



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**PO #** NA  
**Project** 1-10105

**Maps Provided:**

2002	1951
1996	1941
1991	1915
1989	1910
1977	1897
1961	
1957	
1953	



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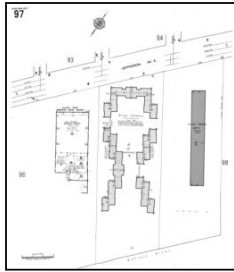
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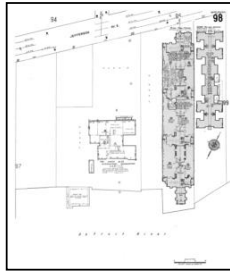
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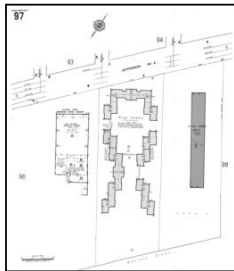


Volume 8, Sheet 97  
2002

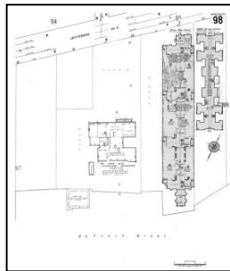


Volume 8, Sheet 98  
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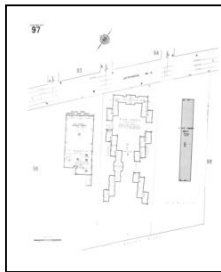


Volume 8, Sheet 97  
1996



Volume 8, Sheet 98  
1996

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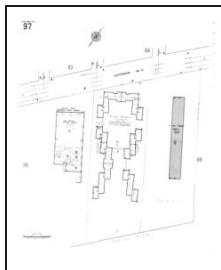


Volume 8, Sheet 97  
1991



Volume 8, Sheet 98  
1991

### 1989 Source Sheets



Volume 8, Sheet 97  
1989



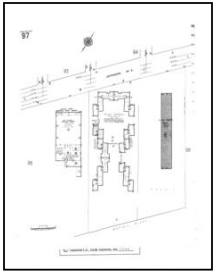
Volume 8, Sheet 98  
1989

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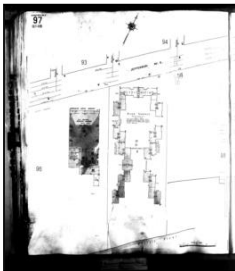


Volume 8, Sheet 97  
1977

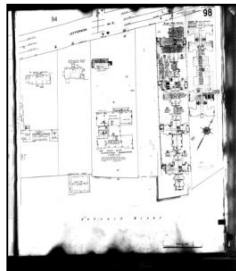


Volume 8, Sheet 98  
1977

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Volume 8, Sheet 97  
1961

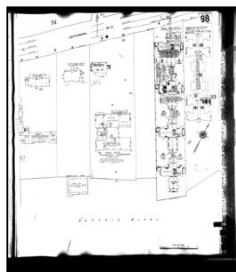


Volume 8, Sheet 98  
1961

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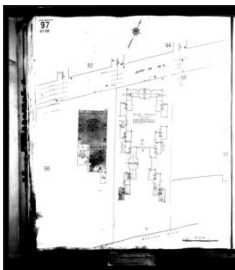


Volume 8, Sheet 97  
1957

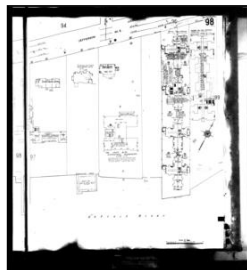


Volume 8, Sheet 98  
1957

### 1953 Source Sheets



Volume 8, Sheet 97  
1953



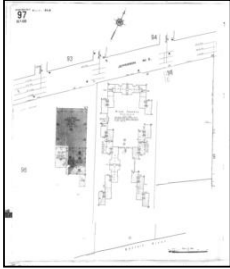
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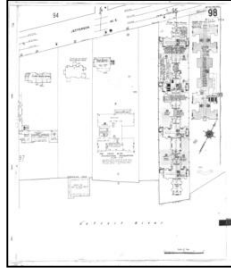
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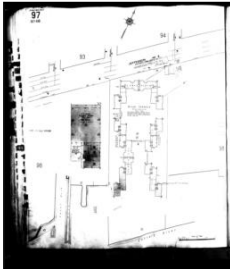


Volume 8, Sheet 97  
1951

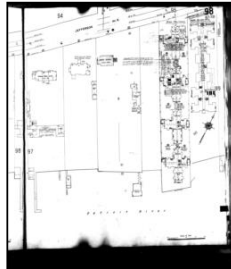


Volume 8, Sheet 98  
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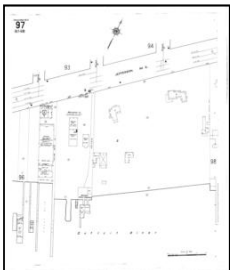


Volume 8, Sheet 97  
1941

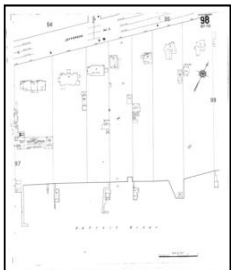


Volume 8, Sheet 98  
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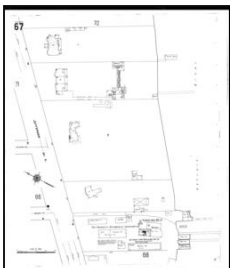


Volume 8, Sheet 97  
1915

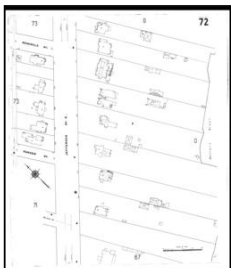


Volume 8, Sheet 98  
1915

### 1910 Source Sheets



Volume 8, Sheet 67  
1910



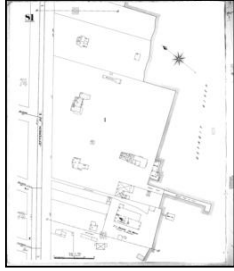
Volume 8, Sheet 72  
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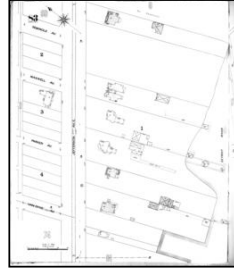
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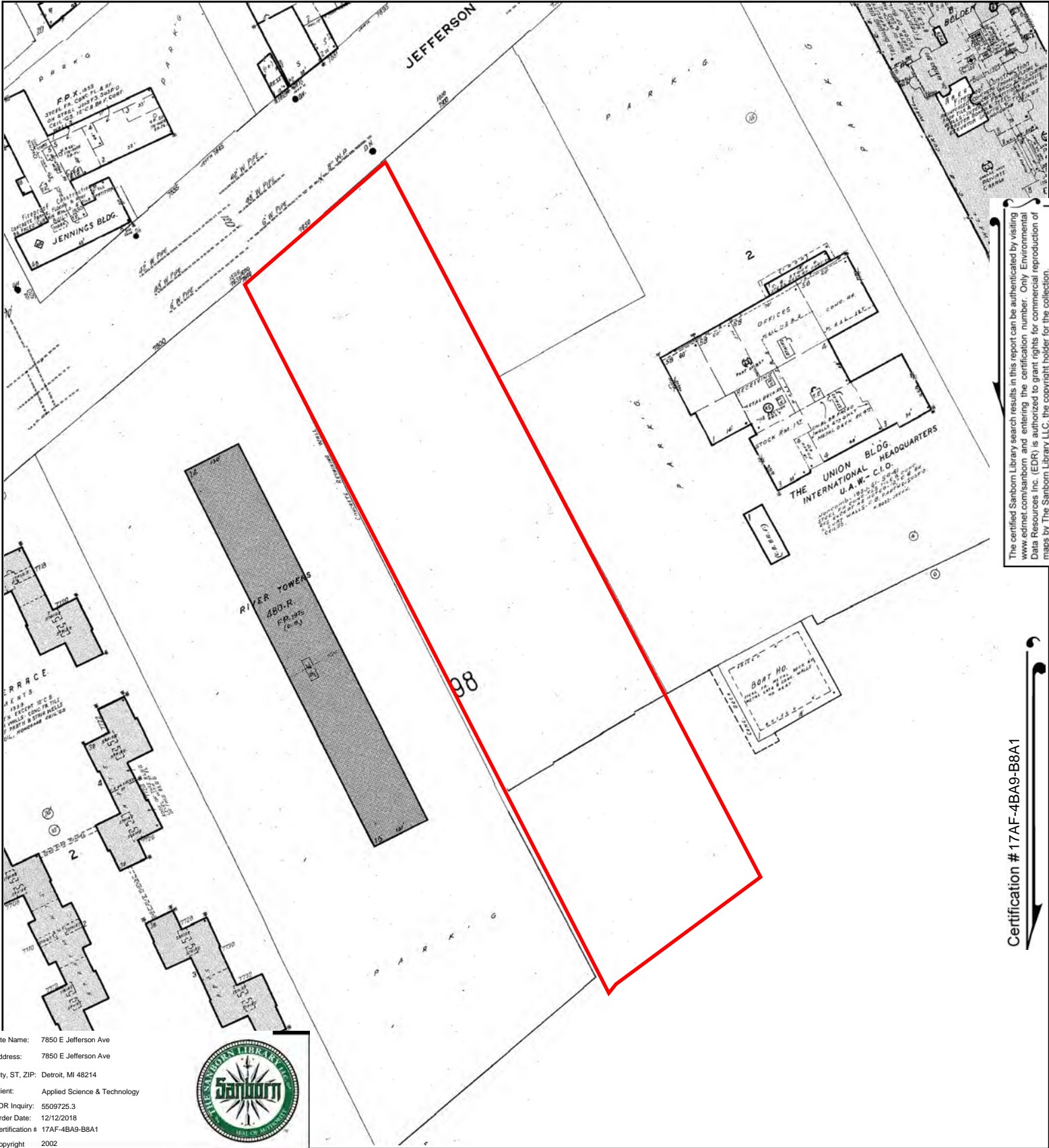


Volume 6, Sheet 81  
1897



Volume 6, Sheet 83  
1897





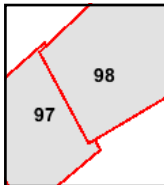
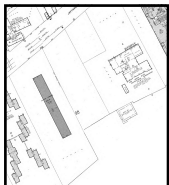
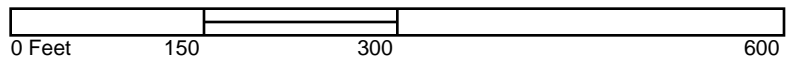
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Certification # 17AF-4BA9-B8A1

Site Name: 7850 E Jefferson Ave  
 Address: 7850 E Jefferson Ave  
 City, ST, ZIP: Detroit, MI 48214  
 Client: Applied Science & Technology  
 EDR Inquiry: 5509725.3  
 Order Date: 12/12/2018  
 Certification # 17AF-4BA9-B8A1  
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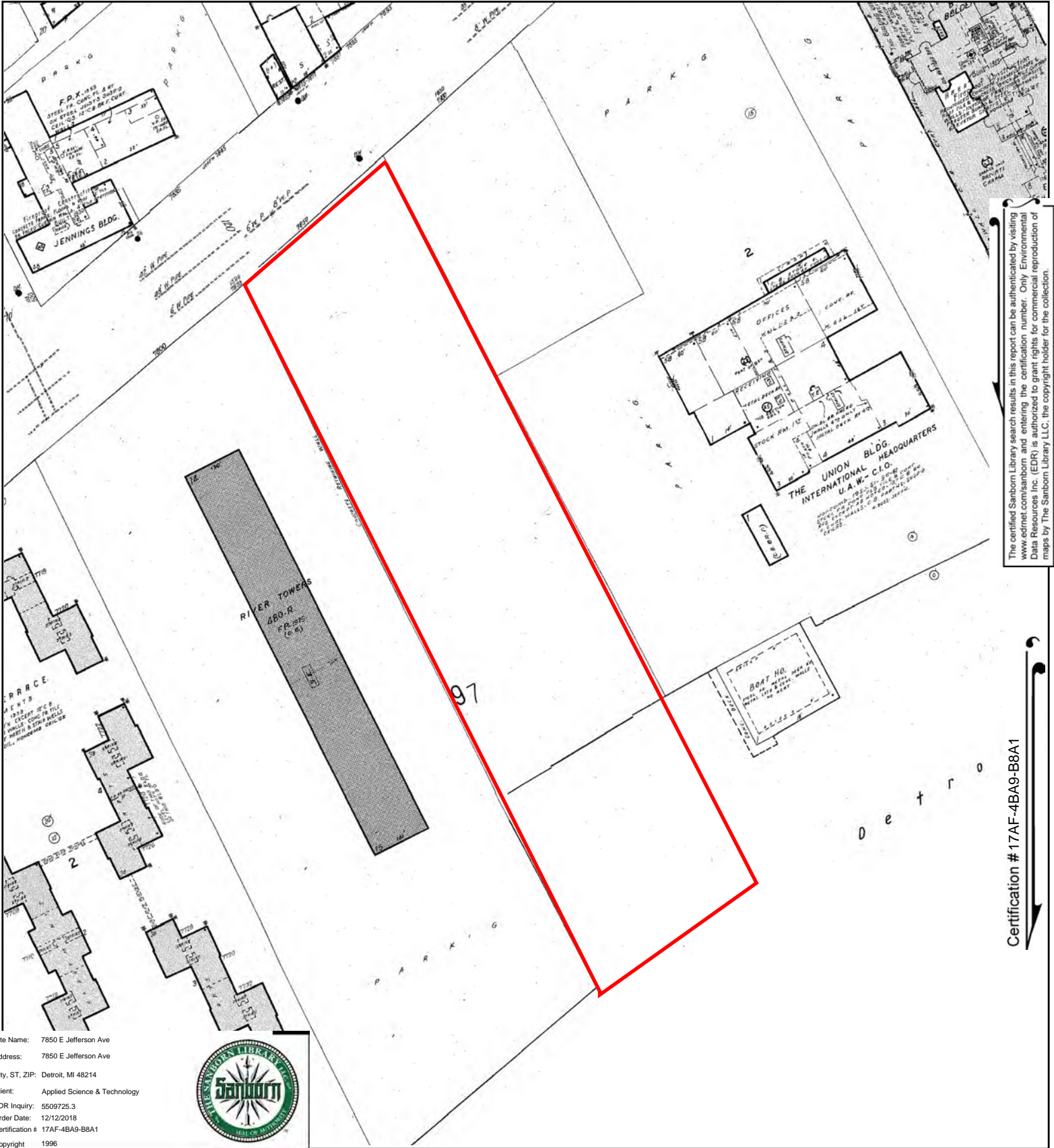


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



Volume 8, Sheet 98  
 Volume 8, Sheet 97





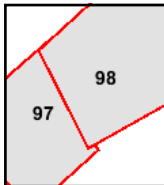
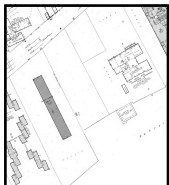
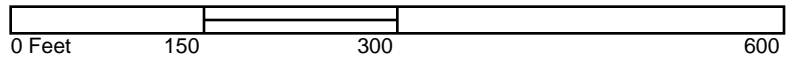
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 City, ST, ZIP: Detroit, MI 48214  
 Client: Applied Science & Technology  
 EDR Inquiry: 5509725.3  
 Order Date: 12/12/2018  
 Certification # 17AF-4BA9-B8A1  
 Copyright 1996

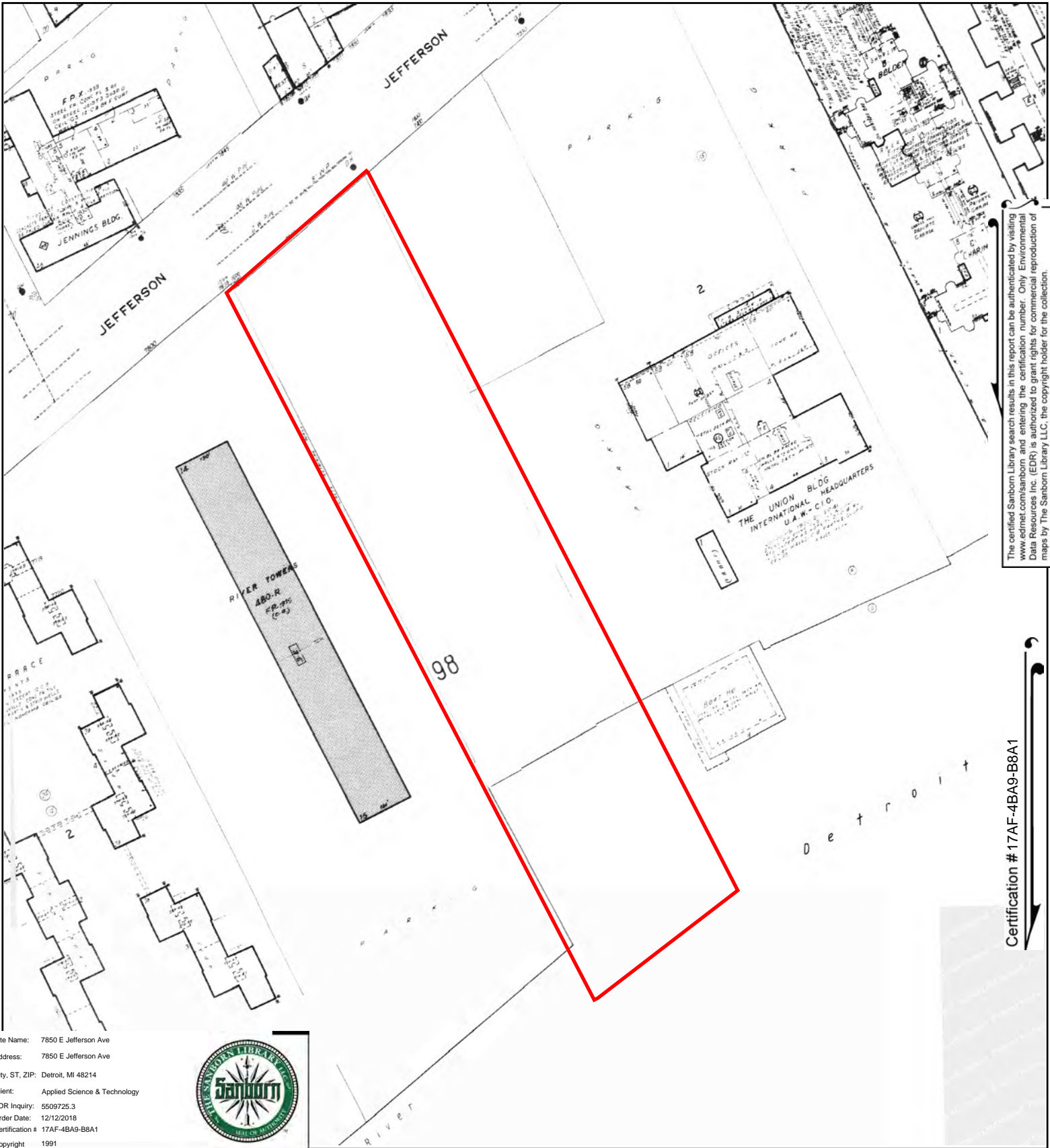


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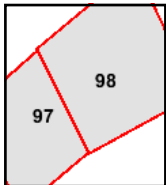
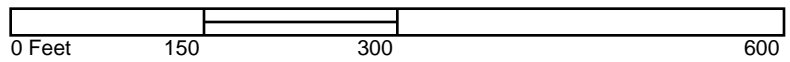
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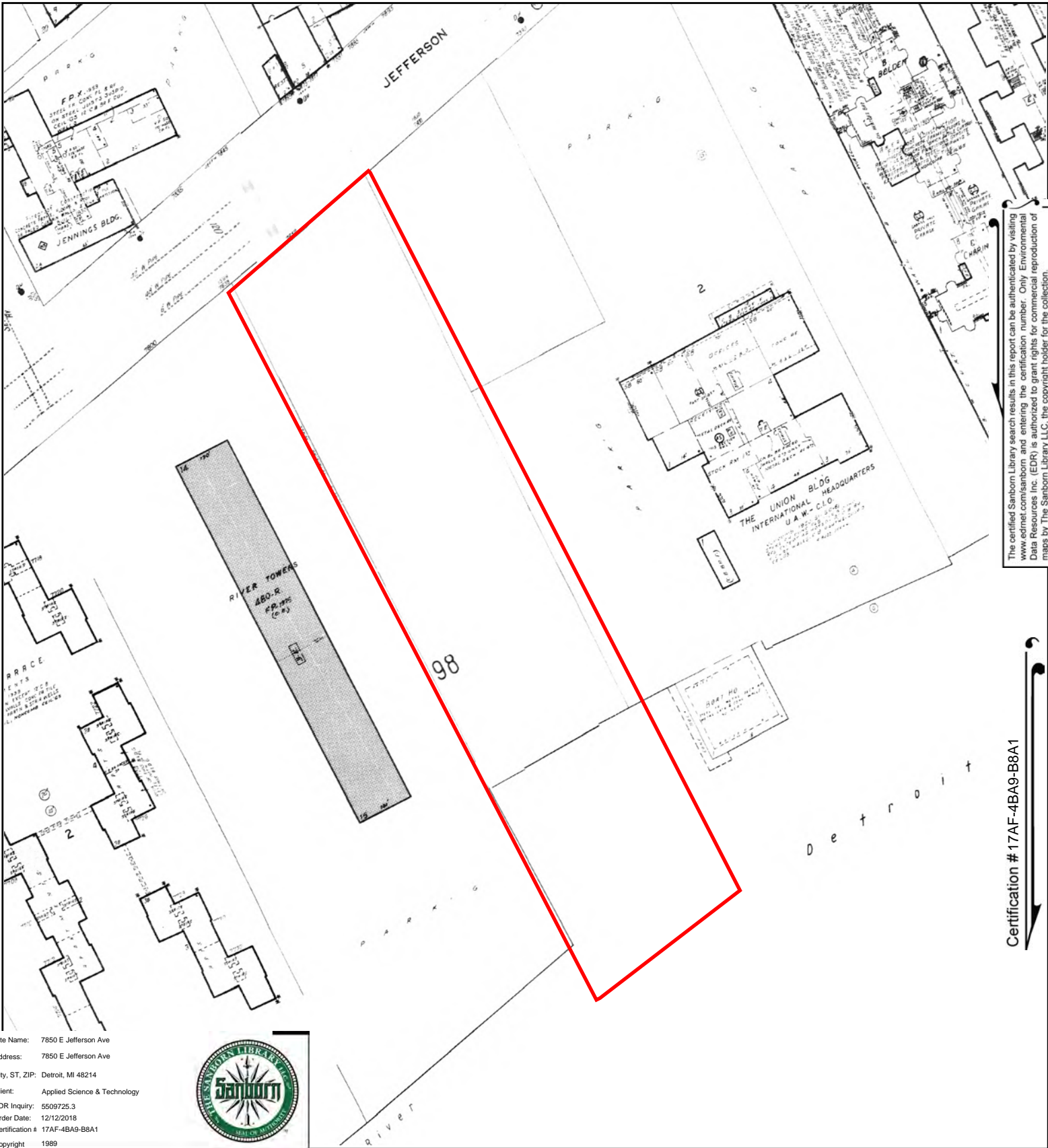


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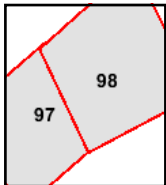
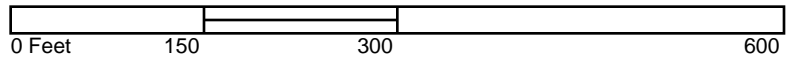
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 Copyright 1989

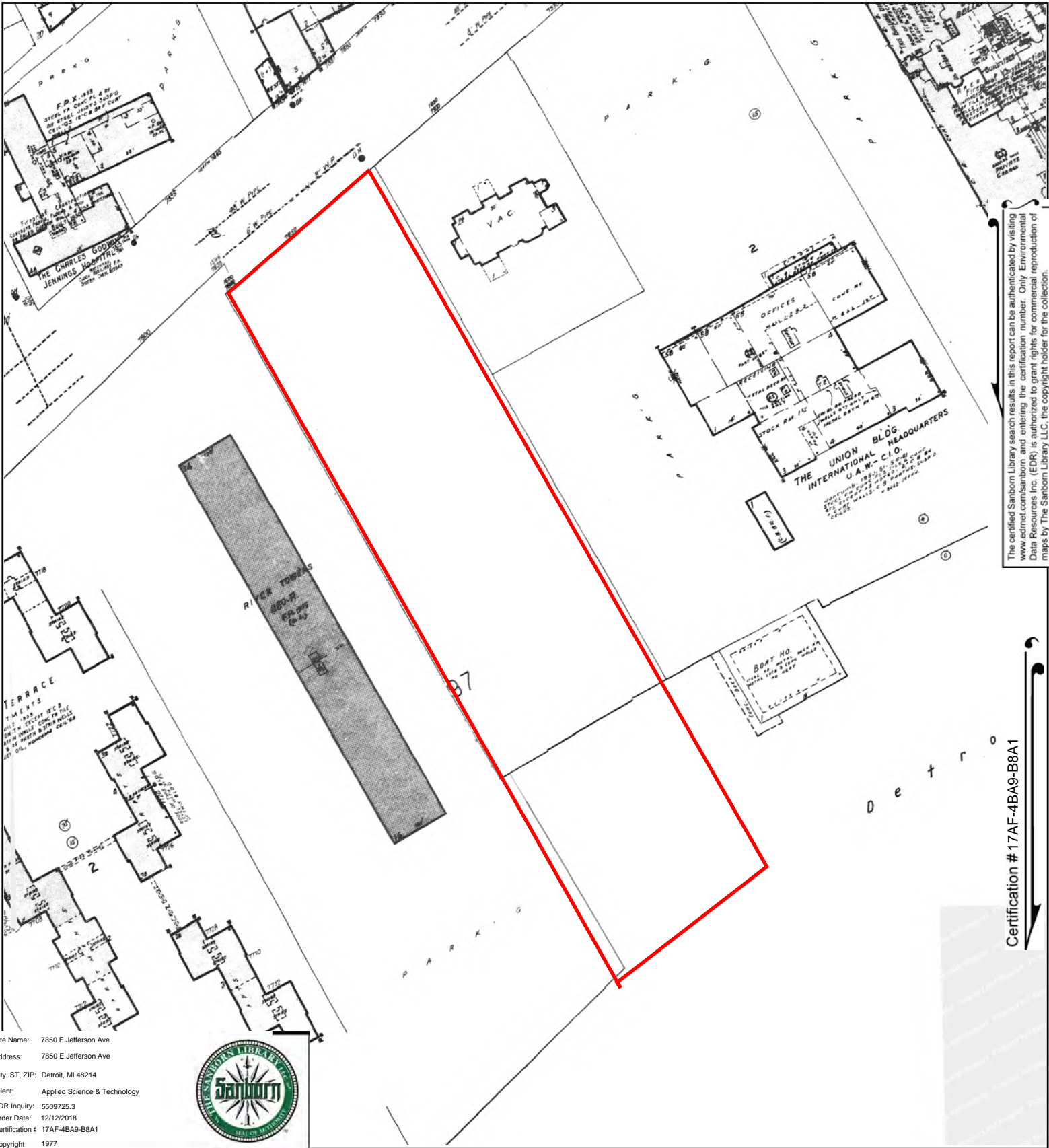


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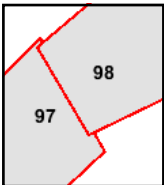
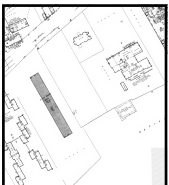
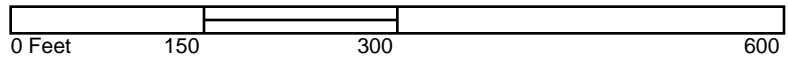
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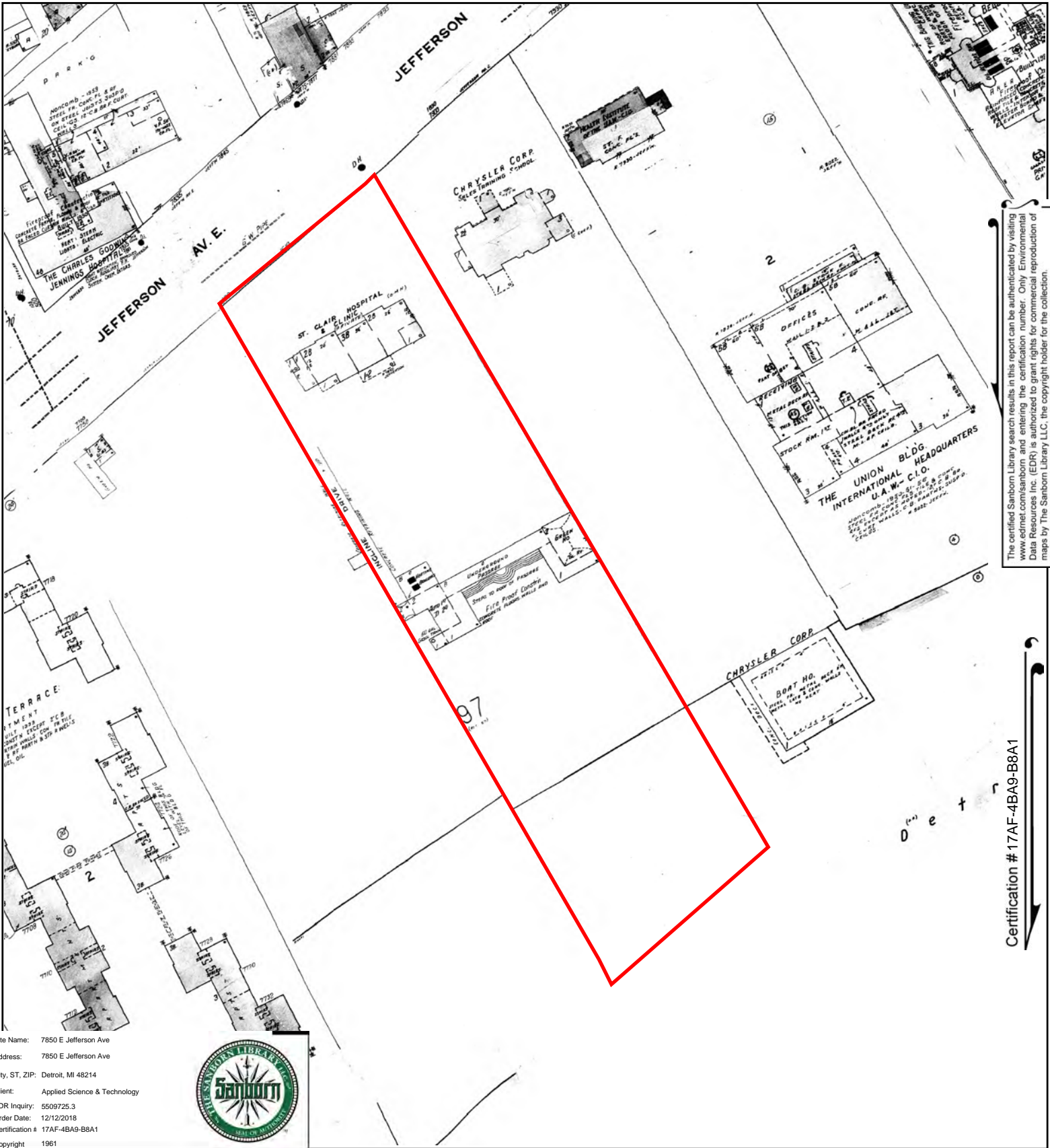


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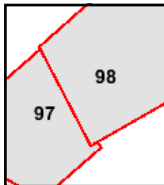
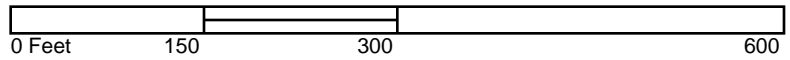
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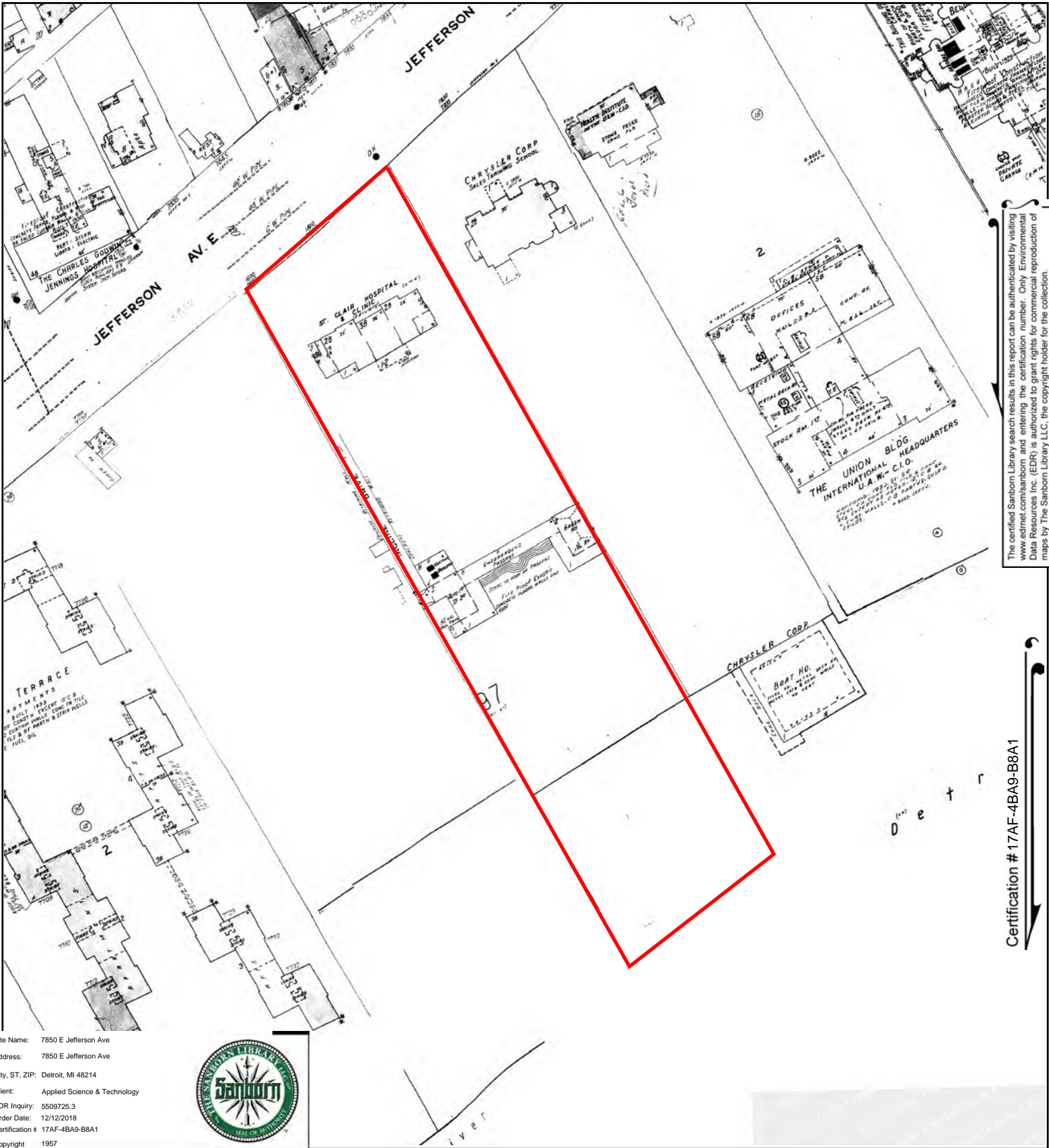


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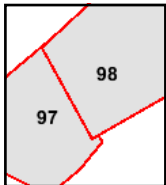
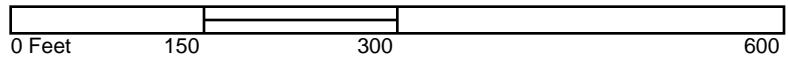
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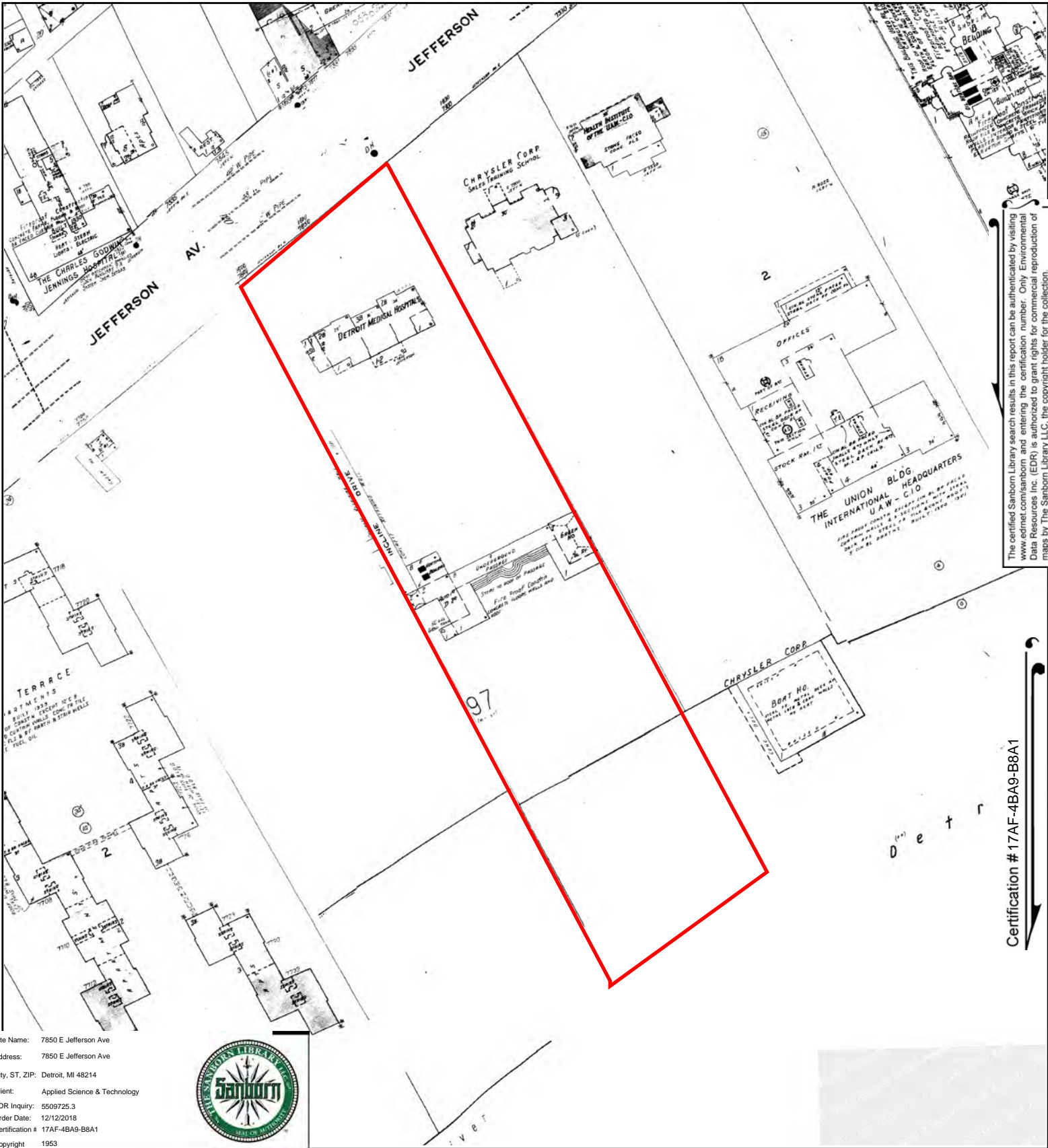


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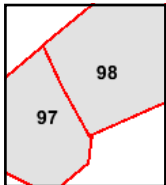
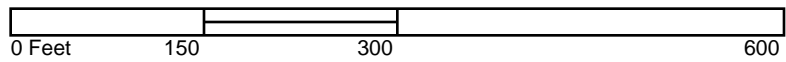




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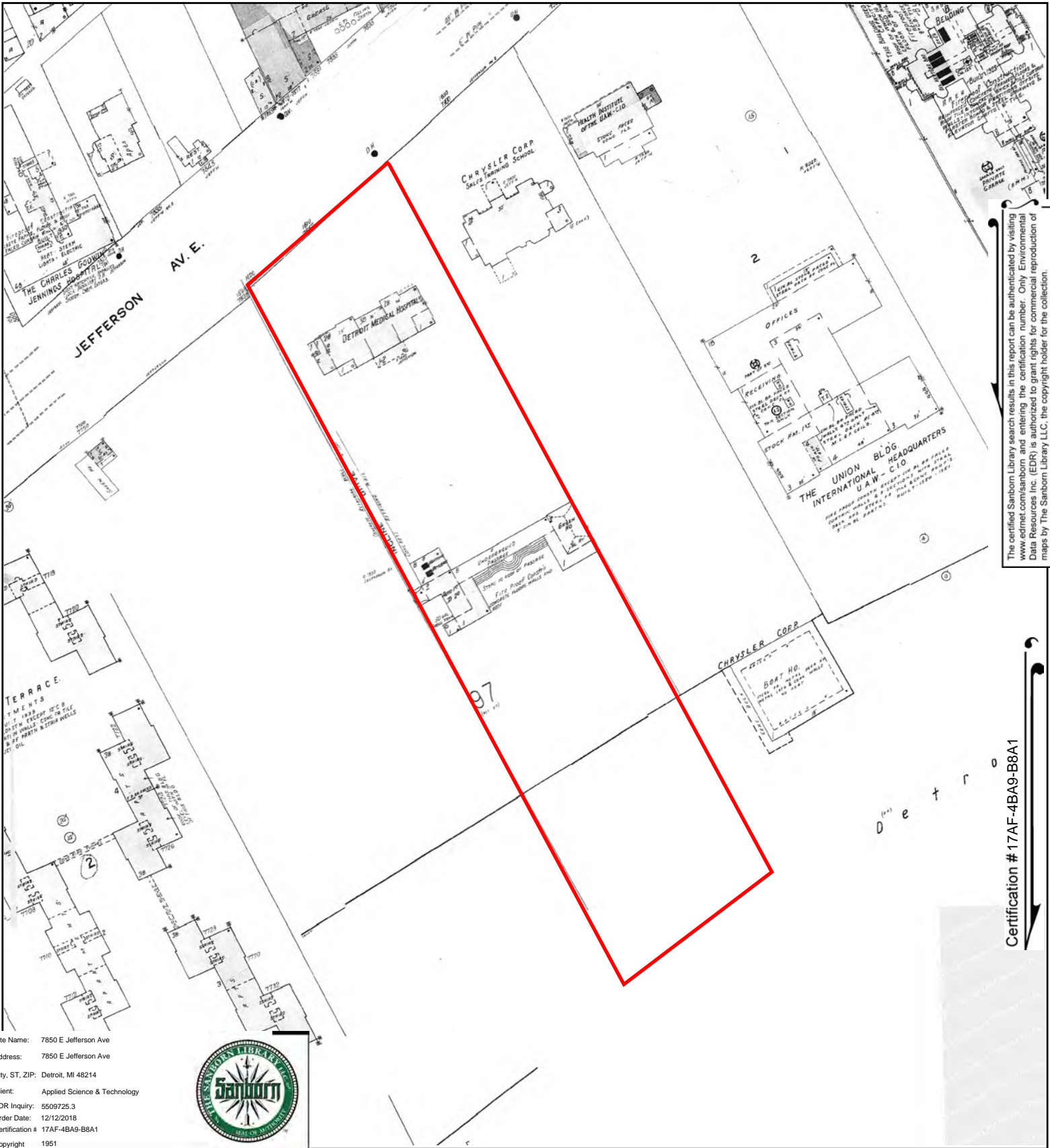
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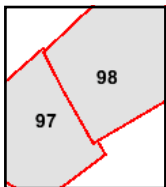
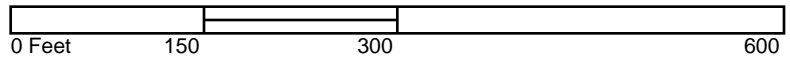
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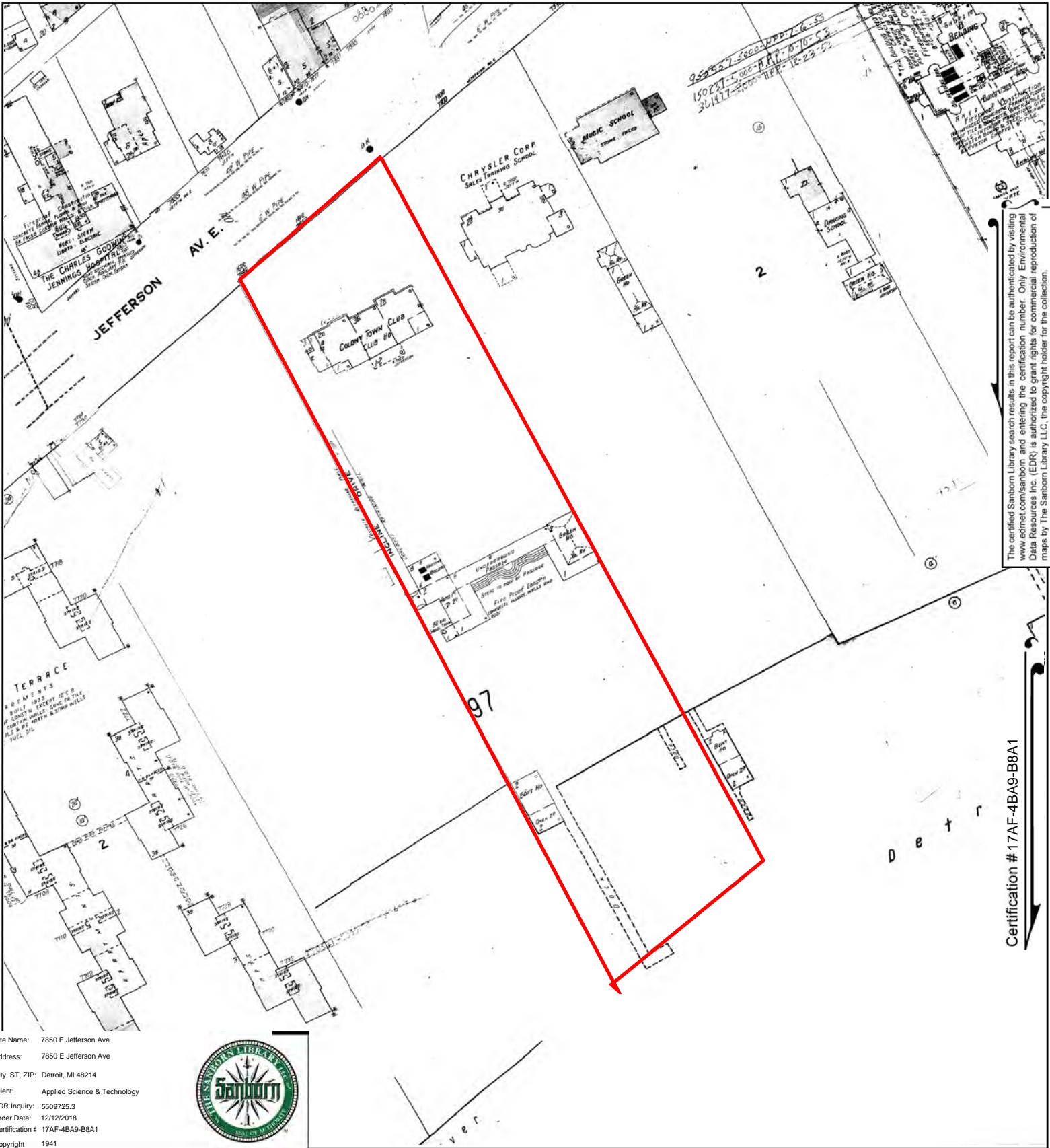


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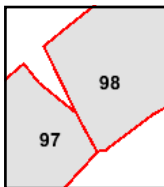
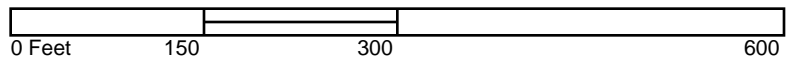




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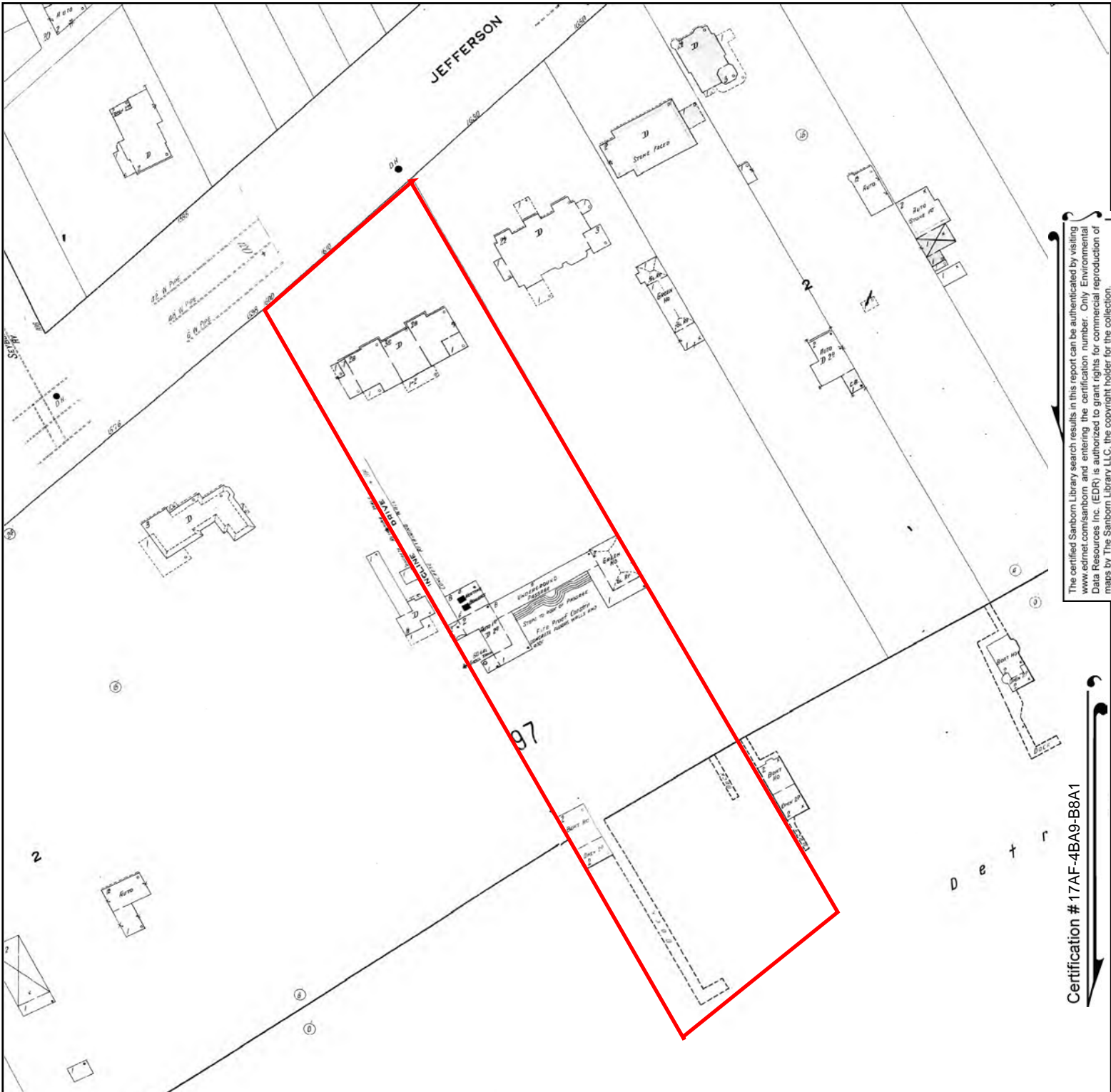
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Certification # 17AF-4BA9-B8A1





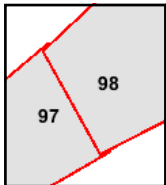
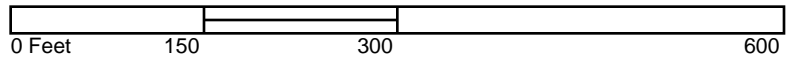
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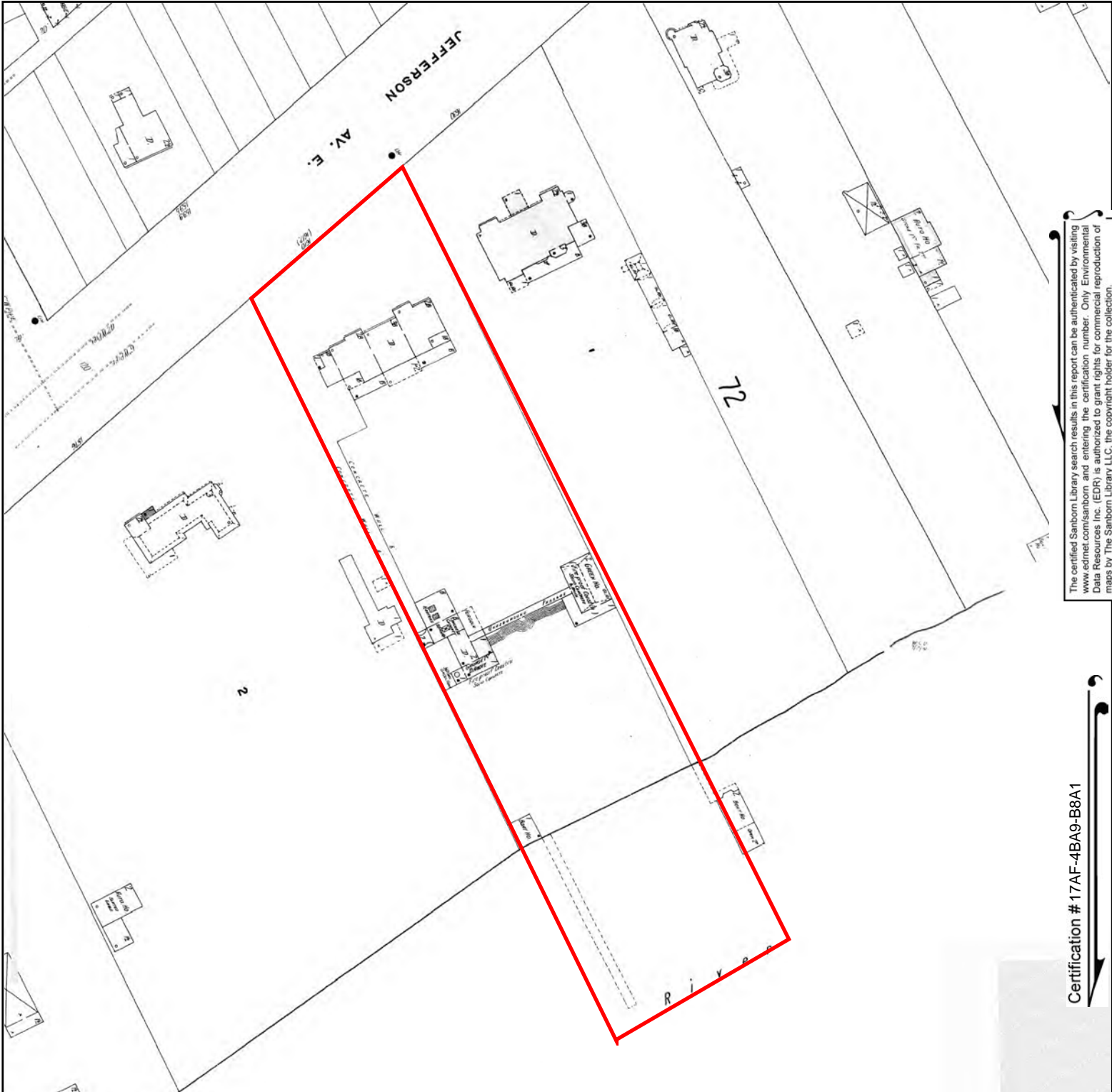


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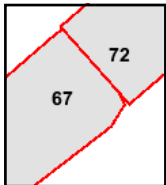
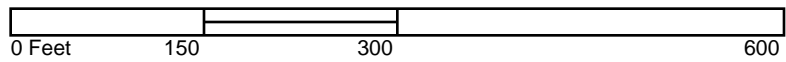
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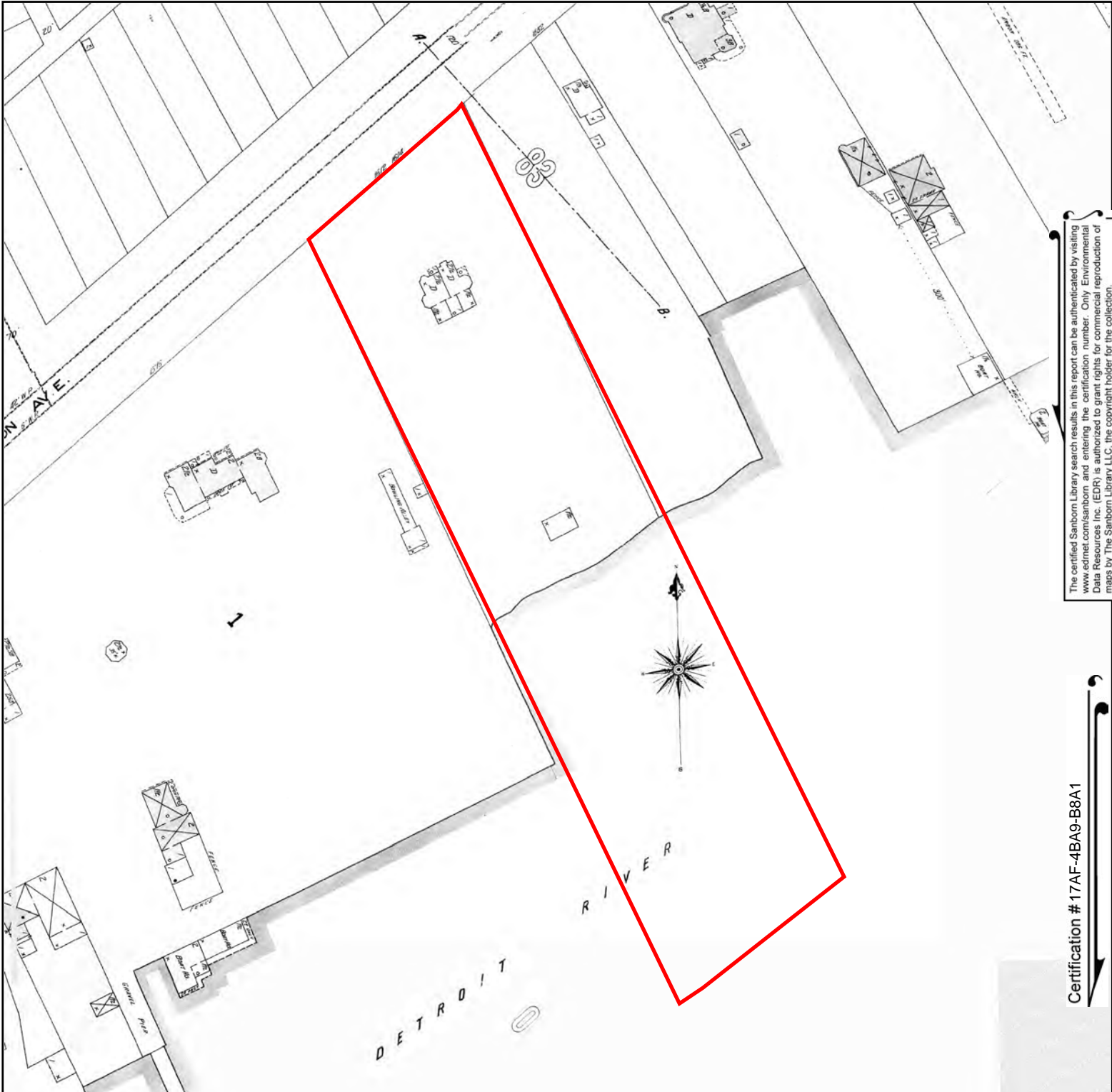


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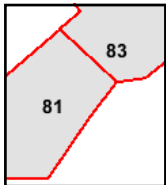
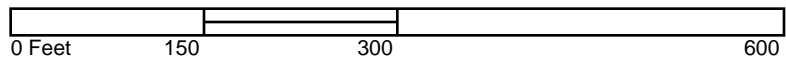
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 Order Date: 12/12/2018  
 Certification # 17AF-4BA9-B8A1  
 Copyright 1897



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**7850 E Jefferson Ave**

7850 E Jefferson Ave

Detroit, MI 48214

Inquiry Number: 5509725.5

December 17, 2018

# The EDR-City Directory Image Report

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Findings

City Directory Images

***Thank you for your business.***  
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with any questions or comments.

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## EXECUTIVE SUMMARY

### DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

### RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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Data by

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### RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2014	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2005	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
2000	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1995	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1992	<input checked="" type="checkbox"/>	<input type="checkbox"/>	EDR Digital Archive
1987	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1982	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1978	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1972	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1967	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1962	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1957	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Bressers Directory Co
1954	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1940	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
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1926	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1921	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO

## EXECUTIVE SUMMARY

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
1916	<input checked="" type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO
1911	<input type="checkbox"/>	<input type="checkbox"/>	POLK DIRECTORY CO

## FINDINGS

### TARGET PROPERTY STREET

7850 E Jefferson Ave  
Detroit, MI 48214

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

### E JEFFERSON AVE

2014	pg A2	EDR Digital Archive
2010	pg A16	EDR Digital Archive
2005	pg A32	EDR Digital Archive
2000	pg A49	EDR Digital Archive
1995	pg A63	EDR Digital Archive
1992	pg A78	EDR Digital Archive
1987	pg A84	Bressers Directory Co
1987	pg A85	Bressers Directory Co
1982	pg A86	Bressers Directory Co
1982	pg A87	Bressers Directory Co
1978	pg A88	Bressers Directory Co
1978	pg A89	Bressers Directory Co
1972	pg A90	Bressers Directory Co
1967	pg A91	Bressers Directory Co
1962	pg A92	Bressers Directory Co
1962	pg A93	Bressers Directory Co
1957	pg A94	Bressers Directory Co
1957	pg A95	Bressers Directory Co
1954	pg A96	POLK DIRECTORY CO
1954	pg A97	POLK DIRECTORY CO
1940	pg A98	POLK DIRECTORY CO
1935	pg A99	POLK DIRECTORY CO
1931	pg A100	POLK DIRECTORY CO
1926	pg A101	POLK DIRECTORY CO
1921	pg A102	POLK DIRECTORY CO
1916	pg A103	POLK DIRECTORY CO
1911	-	POLK DIRECTORY CO

Target and Adjoining not listed in Source

## FINDINGS

### CROSS STREETS

No Cross Streets Identified

## **City Directory Images**

## E JEFFERSON AVE

2014

(Cont'd)

7716 HUDSON, WILLIAM  
 MORRIS, FRANK J  
 STEVENSON, CARTER H  
 SUGGS, BERNARD  
 WARE, ALLAN  
 WOOD, WARREN  
 7718 ALEXANDER, RENEE D  
 JONES, VERONICA L  
 KYLE, GENE M  
 LUCY, ANTHONY W  
 SEALS, TINA P  
 SMITH, GERALD K  
 7720 ARLAUSKAS, PATRICIA L  
 CARSE, LINDA D  
 DAVIE, EDWARD L  
 FREEMAN, JOYCE L  
 JORDAN, GREG  
 MOORE, DON A  
 MOSS, KENNETH L  
 REMODELING DETROIT LLC  
 7722 FINK, H  
 KEATON-PAYNE, LEAH V  
 MIXON, ANTHONY  
 NIMMONS, ROSALYN  
 PITTS, LASHANNON  
 SCANDERICK, MICHAEL W  
 TAYLOR, JAMES E  
 WILLIAMSON, RICARDO A  
 WRIGHT, SIERRA  
 7724 CROCKRAN, STEVEN F  
 7726 DAY, ROBERT E  
 MITCHELL, DARRYL Q  
 7728 GRIER, MARK A  
 HAWTHORNE, ULTAME D  
 WILSON, GILBERT G  
 7730 MOORE, YVONNE D  
 OBANNON, MICHAEL K  
 ONEIL, CLARENCE E  
 TERRY, NIKKI R  
 7732 KIMBROUGH, HOPE  
 LANGFORD, SHARON L  
 WATSON, TIMOTHY J  
 WHITE, CHRISTON D  
 7733 COMPREHENSIVE REHABILITATION  
 LEANN BOOKSTORE  
 RIVERVIEW HEALTH & REHAB CTR  
 ST JOHN PROVIDENCE HEALTH SYS  
 URGENT CARE MANAGEMENT PC  
 7800 ABSTON, ELEANORA  
 ADAMS, DAVID

**E JEFFERSON AVE 2014 (Cont'd)**

7800 ALEXANDER, RODNEY  
ALLEN, LINDA J  
ALLEN, NAKYA R  
ALLEN, WILLIAM J  
ANDERSON-SR, THERO T  
ANDREWS, KATHY D  
ANDREWS, VERA E  
ARBITTER, JENNIFER V  
ARMSTRONG, KAREN D  
BANKS, ELEANOR C  
BARNES, EUGENE E  
BEAMON, LILLIAN J  
BELLARD, KENNETH D  
BEST, THELMA  
BILLINGSLEY, CONNIE  
BIVENS, EM M  
BLACK, SANDRA A  
BLOCKSON, LEE A  
BOLDEN, MATTIE  
BOONE, KATRINA A  
BOWEN, HAYWOOD  
BRADBERRY, JUDITH D  
BRADLEY, ROBERT J  
BRAY, MARK A  
BRITT, JAMES C  
BROWN, CHARLES  
BROWN, EDWARD  
BROWN, HELEN L  
BUCHANAN, VELMA J  
BUSH, JATONA L  
BYNUM, DORIS B  
CALLOWAY, PAULA  
CALVERT, CLEVE  
CAMPBELL, CYNTHIA  
CARROL, ELOISE  
CARTER, CHARLENE  
CARTHORN, PERRY  
CARVAN, BETTY C  
CATO, RENEE F  
CAULEY, JEROME S  
CAVITT, ETHEL M  
CHARLES, JOANN  
CHRISTIAN, TERRANCE K  
CLARK, MICHAEL  
COBBIN, MARILYN  
COHENS, JOHN  
COLE, BEVERLY G  
COLEMAN, PAULINE N  
CREATIVE STYLES  
CROWN OF GLORY HAIR SALON INC

## E JEFFERSON AVE

2014

(Cont'd)

7800 CURRAN, BETTY J  
DANIELS, MARCUS L  
DANZY, THEOPHILUS T  
DAVENPORT, DANIEL E  
DAVIS, LUCILLE D  
DICKENS, SAM  
DOBBS, ALICE  
DOWNS-JONES, MARY L  
DUKES, LESTER  
DUNN, BELL J  
DURHAM, LENELL L  
DURR, CHRISTINE L  
EDWARDS, S  
ELDER, MINNIE L  
EVANS, ANNIE R  
FARLEY, LINDA M  
FARMER, DEBORAH S  
FAULK, ADDIE L  
FERGUSON, THERESA S  
FIELDS, ROBERT L  
FINN, WILHELMINA F  
FLYNN, EMMAGENE  
FORD, LATRINA  
FOREHAND, JOE R  
FOSTER, CURTIS  
FOY, GERALDINE  
FRANKLIN, ALMA R  
FUNK SHUI MANAGEMENT LLC  
GANT, SHARON  
GARFIELD, VERONICA  
GATES, LYNDA J  
GATLING, JOYCE H  
GENTRY, HELEN H  
GILBERT, LEILA M  
GILLIAM, JOE N  
GLASS, KIM  
GLENN, NORRIS H  
GOINS, ANDAMO  
GOSSETT, PHILLIS E  
GOUDY, BEVERLY  
GRADY, WILLIAM E  
GRAHAM, MARTHA L  
GRANT, MARY A  
GRAVES, RITA C  
GREENE, IRMA J  
GRIFFIN, VAL M  
GROSS, LARNELL V  
GUIDEN, RICKEY  
HAGGEN, YVONNE C  
HARMON, ALAN L



**E JEFFERSON AVE 2014 (Cont'd)**

7800 HARRIS, ORA  
HARRIS, OTHA L  
HARRIS, QUINCY  
HARRISON, AARON M  
HARVY, JANICE  
HAWKINS, SHELIA M  
HAYNES, ROBBIE A  
HENRY, JOYCE  
HICKS, PAUL  
HILLMON, LEONARD  
HILTON, CAROLINE  
HINDS, BETTY A  
HINES, MARY D  
HINTON, NATHANIEL  
HODGE, OLGA  
HODGES, JOSEPHINE  
HOLMES, DONNIE R  
HUDSON, MARY F  
HUNT, HERMAN E  
IRBY, ARTHUR L  
JACKSON, KEITH  
JACKSON, LOUIS F  
JAMES, KANDICE M  
JAMES, LOUIS L  
JENKINS, BRIAN W  
JOHNSON, BLANCHE C  
JOHNSON, SHARONE C  
JOHNSON, THOMAS Z  
JONES, JOHNNIE  
JONES, MALVINA R  
JONES, SAMUEL L  
JONES, SHEILA L  
JOURNEY, DARTAGKA L  
KELLEY, DEMETRIUS L  
KEMP, CRYSTAL  
KEY, CAROLYN J  
KIMBROUG, EMMA M  
KING, BEVERLY B  
KING, SAMUEL  
LAGRONE, GLADYS M  
LANG, JOHN  
LAVIGNE, KATIE  
LAWSON, DAVID J  
LEE, SHERRY  
LEWIS, BERDINE  
LOGAN, MARILYN  
LONG, ALBERTA  
LOPP, ANITA R  
LUMSDEN, NORMAN B  
LYNEM, VEESTHER R

## E JEFFERSON AVE

2014

(Cont'd)

7800 MARTIN, WILLIE H  
MATHIS, ROBERT L  
MAXWELL, CORDELL A  
MCGEE, CATHERINE  
MCGHEE, HERMAN  
MCLEMORE, WILLIE J  
MELVIN, MARY W  
MEYERS, RAYMOND R  
MILLER, ANITA J  
MITCHELL, FANNIE M  
MONTGOMERY, WARDELL  
MOORE, JOHN H  
MOORE, MONICA R  
MOORE, WESLEY H  
MOSES, JERRY  
MUHAMMAD, HASSAN A  
MYATT, CAROL  
NELSON, HERSCHEL L  
NERO, BETTY  
NEROMILLER, BETTY  
NEWMAN, LAVERA  
NICHOLS, KARRIE  
NIXON, WILLIAM  
OWENS, MARION  
PACK, VIOLET A  
PARIS, BARBARA J  
PARKS, CALVIN D  
PARR, LOUIS  
PEETE, MATTHEW R  
PEOPLES, TOMMIE  
PHILLIPS, ELAINE D  
POLLARD, CROMWELL  
POYDRAS, BARBARA J  
PRESLEYSOOTT, WILLIE  
QUICK, JEROME  
RAINEY, ANNIE L  
RAMSA, LUCILLE  
RAMSEY, IDA M  
RANDOLPH, ELLEN T  
REDDEN, SHIRLEY A  
REESE, MARIE  
RENFROE, JEANETTE  
RENFROE, THERESA M  
REUBEN, ISSAC  
RICHARDSON, CHARLES V  
RIVER TOWERS  
ROBINSON, DOROTHY J  
ROBINSON, MARCO  
ROSS, MARGARET E  
RULE, WILLIE M

## E JEFFERSON AVE

2014

(Cont'd)

7800 RUSHING, ROBERT L  
SAMUEL, NATHANIEL  
SANDERS, NELLIE L  
SANKS, ROBERT R  
SACHEL, SANDRA  
SCOTT, ROSIE M  
SCRUGGS, DARRELL E  
SEARCY, VIOLA L  
SEATON, EVA L  
SELDON, NAOMI J  
SIMMS, CECELIA  
SIMPSON, TIFFANY T  
SMITH, ANGELA C  
SMITH, THEDRICK E  
SNIPES, JACQUELINE B  
SPARKS, MARTEEZ L  
SPENCER, VANESSA D  
STANLEY, ABRAHAM B  
STEPHENSON, GWENDOLYN F  
STEWART, IRVIN W  
STIGER, EUNICE M  
STURGES-SR, ARTHUR  
SULLIVAN, VINCENT A  
SUMMERS, DONALL E  
SUTTON, BREE L  
SWANN, JOSEPH  
SWIFT, SANDRA  
SYKES, WENDY  
TAYLOR, ROBERT B  
TEDFORD, WALLA B  
THOMAS, CHRISTIN E  
THOMAS, FRANK  
THOMPSON, DORIS N  
TOLLIVER, JACQUELINE M  
TOLLIVER, MARY L  
TOWNSEND, HERMAN L  
TRAMMELL, CONSTANCE  
TRUMAN, THERESA  
TUCKER, MAY  
UCHENDU, BON  
WALDON, BARBARA J  
WALKER, ALEX C  
WALLER, LINDA D  
WALLINGFORD, EMMA L  
WARD, THOMAS  
WATLEY, JOHNNIE B  
WEAVER, EVELYN  
WEBB, MARTHA E  
WHEELER, JIMMY  
WHITE, SHARON A

## E JEFFERSON AVE

2014

(Cont'd)

7800 WHITEHEAD, ALPHONSO N  
 WILKERSON, WILLIE J  
 WILLIAMS, CLARA D  
 WILLIAMS, EARL  
 WILLIAMS, T  
 WILLIE, JONES  
 WILSON, JOHN T  
 WOODS, BRUCE L  
 WOODWARD, BARBARA A  
 WOODWARD, GENEVA E  
 YOUNGUE, FRANKIE E  
 7869 GARALINOS PIZZA INC  
 7875 PATTAH HUTCH  
 7901 GATES, OLIVIA  
 7919 MICHAEL TS  
 8000 INTERNATIONAL UNION UAW REGION  
 INTERNATIONAL UNION UNITED AU  
 INTERNTIONAL UAW FEDERAL CR UN  
 SUSAN HARWOOD TRAINING GRANT P  
 UAW LOCAL 1954  
 UAW LOCAL 566 BUILDING CORP  
 UAW PUBLIC RELATIONS  
 UAW RETIRED EMPLOY OF MOLD A M  
 UNION BUILDING CORPORATION  
 UNITED AUTO AEROSPACE & AGRIC  
 VOLUNTARY BENEFITS PLAN FOR UA  
 8005 HANAA ENTERPRISE LLC  
 SUNOCO  
 VALERO ENTERPRISE LLC  
 8030 ELLIS, GERTRUDE  
 8045 MOROUN NURSING CTR DETROIT LLC  
 MOROUN NURSING HOME INC  
 8100 ALEXANDER, LAREL  
 ARNOLD, MELENIE  
 ARTHUR, RACHEL L  
 BARNES, ALICIA J  
 BESPOKE BOTANICALS LLC  
 BROWN, TONYA  
 BUNN, ELLA L  
 CASON, KAREN M  
 COLLINS, DIANE A  
 CUNNINGHAM, RODNEY  
 DANIEL MALONE  
 DEWITT, KHADIJA  
 DOROUGH, TINA  
 FLIPPEN, BRITTANY  
 GARRETTE, STEPHANIE V  
 GIBBONS, RACHEL C  
 GREEN, JULIA  
 HAMPTON-COOPER, LAUREN T

**E JEFFERSON AVE 2014 (Cont'd)**

8100 HAWKINS, KEVIN  
HAYES, DAMOND D  
HICKS, SHERRITHA  
HOLT, DESIREE  
HUBBERT, CHANTEL N  
HUGHES, UGANDA L  
JACKSON, NATASIA  
JAMES, ERICA  
JENKINS, CARLESIA S  
JONES, DANNY L  
KING, KAREN  
LINDSAY, CHRISTOP  
LOVELACE, CHRISTOPHER D  
MALONE, D  
MCINTOSH, CARMEN L  
MCMURRAN, WILLIAM R  
MEEKS, JANICE  
METCALF, AMY A  
MILES, SHERMON  
NEWELL, GLORIA J  
NICKELSON, KAI  
NORFLEET, ALLISON L  
NORMAN, LONNIE  
ODUMS, CHAVON  
PAPERIE DESIGN STUDIO LLC  
PATILLO, LATOI M  
PERSON, ALEXIS D  
PLUM, GERALD C  
RHODES, GLENN E  
SACKEY, DONNIE  
SHOBE, CARLA  
SPRATT, CHEVIS B  
STALKER, SARAH E  
TECHNOGENIUS  
THAMES, ANGELA L  
THOMAS, CARMA  
TRITON INVESTMENT COMPANY  
TUCKER, RICKY L  
WARD, GILBERT  
WEINSTEIN, TRACI  
WHITE, ALBERT  
WILSON, CHRISTOPHER A

**E JEFFERSON AVE 2010 (Cont'd)**

7718 KYLE, ROBIN H  
 RICHARDSON, KEYNDA  
 7720 AIDA WORKS SPA  
 ARLAUSKAS, PATRICIA L  
 BROWN, ERNESTINE  
 HOLLINGSLED, ROBERT  
 LYNK, CAREY D  
 MASON, PAT A  
 PELT, ALPHONSO  
 7722 BEAL, VIVIAN L  
 KEATON-PAYNE, LEAH V  
 NIMMONS, ROSALYN  
 PITTS, LASHANNON  
 TAYLOR, BRENDA L  
 WELCH, TONY  
 7724 CROCKRAN, STEVEN F  
 7726 EDWARDS, CELIA M  
 JOHNSON, ATASHA  
 PITTMAN, MARY L  
 TIERT, LORETTA  
 7728 ALDRIDGE, RAYMOND W  
 ARCHIE, CHARLES B  
 GRIER, MARK A  
 HENRY, WAYNE R  
 PREMIER SUPPLIERS  
 WILSON, GILBERT  
 7730 MOORE, YVONNE D  
 OBANNON, SHIRLEY A  
 ONEIL, CLARENCE E  
 7732 ALBRECHT, WILLIAM A  
 EPSTEIN, SOLOMON  
 HARDY, JOHN W  
 KNIGHT, CASSANDRA F  
 LANGFORD, KRYSTAL N  
 NEWSOM, DENISE  
 7733 MEDICAL RESOURCE GROUP  
 ST JOHN HEALTH  
 URGENT CARE MANAGEMENT PC  
 7800 ACKLIN, CONNIE L  
 ADAMS, DAVID  
 ALFORD, BENNIE  
 ALLEN, WILLIAM J  
 ANDERSON, ALBERTA D  
 ANDERSON, JOSEPH  
 ANDREWS, VERA E  
 ANTHONY, JERRY L  
 ANTLE, ANNA M  
 ARCHIE, DOROTHY  
 ARMSTRONG, KAREN D  
 B SMITH

**E JEFFERSON AVE 2010 (Cont'd)**

7800 BAILEY, WANDA A  
BANTA, MILTON C  
BARBER, MARY L  
BARNES, EUGENE E  
BARNES, P J  
BEAMON, LILLIAN J  
BEASLEY, EDWARD  
BEATON, PHYLLIS P  
BELLARD, KENNETH D  
BEST, THELMA  
BLACK, MAURICE J  
BLACKMAN, CURLY  
BLOCKSON, LEE A  
BOKOTA, STANLEY  
BOLDEN, MATTIE  
BRADBERRY, JUDITH  
BRADLEY, DOROTHY  
BRADLEY, PAUL  
BRAY, MARY  
BRINTLEY, LYNETTA  
BROOKS, PATRICIA A  
BROWN, BOBBY  
BROWN, CHARLES  
BROWN, HELEN L  
BROXTON, EUMON L  
BUCHANAN, VELMA J  
BURGESS, CAROLYN J  
BUSH, JATONA  
BYNUM, DORIS B  
CAMPBELL, COLLIER F  
CAPERS, PATRICIA A  
CARD, SILAS  
CARR, CRYSTAL  
CARROLL, FREDERICK  
CARSON, MARTELL N  
CARTER, ETHEL M  
CARVAN, BETTY C  
CAULEY, JEROME S  
CAVITT, RICKY  
CHAPMAN, DELORES  
CHEEKS, ZIHORA Z  
CHRISTIAN, MARY A  
CLARK, BERTHA G  
CLARK, JOY C  
CLEMONS, LUCIOUS  
CLEMONS, MILDREN V  
COBBIN, MARILYN  
COHENS, JOHN  
COLE, B  
COLEMAN, PAULINE

**E JEFFERSON AVE 2010 (Cont'd)**

7800 COLLINS, A J  
COLLINS, EUGENE  
CONLEY, EDITH L  
CONNER, CHARLENE  
COOK, SHEILA  
COOPER, ORIER  
CORNELUS, ELVIE  
CRAIG, EDGAR M  
CRAIG, NATHAN  
CRAWFORD, NATHANIEL  
CROSSLEY, GERALDIN  
CROWN OF GLORY HAIR SALON INC  
CRUTCHFIELD, ROBERT  
CRYSTAL CLEAR CLEANING SERVICE  
CURRY, NUMMIE J  
D J LAWSON  
DANIEL, PAUL  
DANIEL-JR, JOE L  
DANIELS, GLORIA R  
DAVIS, DARWIN M  
DAVIS, PAULINE B  
DENMAN, DENISE R  
DIXON, DELPHINE  
DOLLAR, ANDREW A  
DOYLE, MAURICE L  
DUDLEY, FOREST  
EDWARDS, DIANA M  
EDWARDS, S  
ERWIN, BERTHA  
EVANS, ANDRE L  
EVANS, LINDA S  
FARLEY, LINDA M  
FARROW, RUTH  
FAULK, ADDIE L  
FEAZELL, MARGARET  
FERGUSON, THERESA S  
FIELDS, ROBERT  
FINN, WILHELMINA F  
FORD, MAE J  
FOREHAND, JOE R  
FOSTER, CONSTANCE  
FOSTER, CURTIS B  
FOY, GERALDINE  
FRAZIER, LUCIUS  
GARFIELD, VERONICA  
GARRETT, S  
GILCHRIST, OLIVIA C  
GILLIAM, JOE N  
GIVENS, RUFUS C  
GLENN, MARY F



**E JEFFERSON AVE 2010 (Cont'd)**

7800 GLENN, NORRIS  
GOINS, PEARLIE M  
GOODE, LETITIA T  
GOODLES, E  
GOODMAN, MABLE  
GRANT, MARY  
GRAY, WILLIAM W  
GREEN, DAN  
GREENE, IRMA J  
GRIFFIN, VAL M  
GROSS, LARNELL V  
GUYDEN, FRANCES A  
HAGGEN, YVONNE C  
HALL, BRENDA J  
HALL, GERALD M  
HAMMOCK, GEORGE  
HARDAWAY, TIANNA  
HARDISON, BEVERLY  
HARPER, DORETHA S  
HARPERA, LORRAINE  
HARRIS, LUCILLE  
HARRIS, OTHA L  
HARRIS, QUINCY  
HARRISON, ANTONIA  
HARRISON, BARBARA J  
HATSHEPSITOU, M  
HAWK, FLORENCE  
HAWKINS, TERRANCE A  
HAYNES, GENNIE  
HAYNES, ROBBIE A  
HENRY, JOYCE  
HERRING, ROSE  
HICKS, WINTON L  
HILL, EARNEST  
HINTON, SARAH A  
HOBBS, CONSTANCE L  
HOLMES, ILENE  
HOPKINS, WILL F  
HUDSON, MANNIE  
HURNS, JOHN W  
ISAAC, REUBEN  
JACKSON, DELILLIAN E  
JACKSON, DOROTHY M  
JACKSON, KEITH  
JOHNSON, EVELYN  
JOHNSON, ROLAND  
JOHNSON, SALESHIA  
JOHNSON, THOMAS  
JONES, HELEN E  
JONES, LINDA

**E JEFFERSON AVE 2010 (Cont'd)**

7800 JONES, ROBERTA  
JOURNEY, DARTAGKA  
KELLEY, CECELIA  
KEY, CLARICE  
KIMBROUGH, EMMA M  
KING, OLIVE M  
KING, SAMUEL  
LANE, DALE E  
LANG, JOHN  
LAVIGNE, KATIE  
LAWSON, DAVID J  
LAY, ISIDORA  
LEE, ETHEL M  
LENYOUN, ARNETT  
LESLIE, JOHN O  
LEWIS, SAMSON  
LOGAN, MARILYN  
LONG, ALBERTA  
LUCKETT, CLASSIE B  
LYNEM, VEESTHER R  
MAMON, DIANE M  
MARKWOOD, SUE  
MARLIN, ELAINE  
MARSHALL, JEANETTE M  
MATHIS, VALERIE A  
MAYERS, AZELINE  
MCCRACKEN, VALERIE  
MCCULLOM, WILLIAM D  
MCCULLUM, MARY  
MCGEE, CATHERINE  
MCGHEE, MELVYN D  
MCLEMORE, WILLIE J  
MCMURRAY, KENNY  
MCNARY, KIMBERLY J  
MELVIN, MARY W  
MILLER, JAYANN  
MILLS, CALLIE  
MILLS, L  
MITCHELL, GLORIA J  
MOBLEY, CHEREL  
MONTGOMERY, WARDELL  
MOORE, WESLEY H  
MORGAN, ROSIE K  
MORMAN, ADELE  
MORRISON, ALLEARA  
MORTON, DWIGHT E  
MUHAMMAD, JOYCE  
MURRIE, TOMMIE  
MYATT, CAROL  
NEAL, THOMAS

**E JEFFERSON AVE 2010 (Cont'd)**

7800 NELSON, HERSCHEL  
NELSON, ROSA M  
NELSON, SHARON  
NEWTON, GLORIA  
ORR, MARION  
OUTSOURCE  
OWENS, MARION  
PACK, VIOLET A  
PAG, JULIA  
PARIS, BARBARA  
PARKS, CALVIN  
PATTERSON, DOROTHY  
PEETE, MARVIN  
PENDLETON, ROY  
PEOPLES, MARLENE  
PERRY, ALICE  
PHILLIPS, CORRINE  
PHILLIPS, VALTINE  
PICKENS, FAYE  
POLLARD, CROMWELL  
POLLARD, LAMARR  
POMILEE, WILLIE M  
PORTER, JEANETTE  
POYDRAS, BARBARA J  
PRATHER, JAMES  
PRESLEYSOOTT, WILLIE  
PUGH, ALPHONSE  
PURYEAR, MILDRED  
RAINEY, ANNIE L  
RAMSEY, IDA M  
RANDOLPH, ELLEN T  
RAY, CHARLOTTE G  
REDDING, HAROLD R  
REED, MILES M  
REESE, GRACE L  
RENFROE, J  
REUBEN, ISSAC  
RHEINHARDT, MOLLIE M  
RICHARDS, ALBERT  
RIDLEY, GEORGE E  
RISKER, BETTY J  
RIVER TOWERS  
ROBERTSON, JERRY  
ROBINSON, PATRICIA  
RUSHING, GLORIA J  
SCOTT, LULA M  
SCOTT, ROSIE M  
SEARCY, VIOLA L  
SEATON, EVA L  
SHABAZZ, EUNICE M

**E JEFFERSON AVE 2010 (Cont'd)**

7800 SHAVERS, DEBORAH R  
SHELTON, AUDREY L  
SIMMONS, ELEANOR  
SINGLETON, SUSAN  
SLAUGHTER, JOANA M  
SMITH, ANGELA C  
SMITH, B  
SMITH, CLARA J  
SMITH, MURLINE M  
SMITH, VIRGINIA V  
SOCIETY OF AFRICAN AMERICAN PO  
SOLIMAN, MOUNIAR  
SPARKS, MARTEEZ L  
STANLEY, ABRAHAM B  
STEPHENSON, GWENDOLYN F  
STEWART, CYNTHIA  
STEWART, IRVIN W  
STIGER, EUNICE M  
SULLIVAN, BARBARA A  
SUTTON, BREE L  
SWANN, JOSEPH  
SWIFT, BEATRICE M  
SWIFT, SANDRA  
TAYLOR, BLANCHE  
TAYLOR, PEASIE M  
TEDFORD, WALLA B  
TELL, FREDERIC  
THOMAS, CATHLIN  
THOMPSON, T  
TOLLIVER, MARY L  
TRACY, ANNIE K  
TRAMMELL, CONSTANCE  
TRUELOVE, DAVID I  
TUCKER, MAY  
TURNER, ALVIN J  
VERNON, LUCILLE S  
WALKER, ALBERT B  
WATLEY, JOHNNIE  
WATTS, SEBRON E  
WHITE, DENISE  
WHITEHEAD, EDRA J  
WILKERSON, WILLIE J  
WILLIAMS, CLARA D  
WILLIAMS, ROBERT  
WILLIAMS, SAMUEL G  
WILSON, JOHN  
WINBURN, FLOSSIE M  
WOODS, BRUCE L  
WOODS, DONELL S  
WRIGHT, EVA B

**E JEFFERSON AVE 2010 (Cont'd)**

7800 WRIGHT, MABEL E  
 7815 ALATASSI EMAD  
 DETROIT-MACOMB HOSPITAL CORP  
 ENT SURGICAL  
 GOTTAM NARSIMHA MD  
 KNIGHT PHARMACY  
 PARK FAM HEALTH CARE  
 7869 GARALINOS PIZZA INC  
 7875 AMMORI FAROOK  
 PATTAH HUTCH  
 8000 INTERNATIONAL UNION UAW 465  
 INTERNATIONAL UNION UNI AUTO W  
 INTERNATIONAL UNION UNITED AU  
 INTERNTIONAL UAW FEDERAL CR UN  
 INTERNTNAL UN U AA AG IP WK AR  
 SUSAN HARWOOD TRAINING GRANT P  
 UAW HEALTH & SAFETY DEPT  
 UAW LOCAL 1954  
 UAW LOCAL 566 BUILDING CORP  
 UAW PUBLIC RELATIONS  
 UAW RETIRED EMPLOY OF MOLD A M  
 UAW SOLIDARITY HOUSE  
 UAW STRIKE FUND  
 UNION BUILDING CORPORATION  
 UNITED AUTO WORKERS AMERICA  
 VOLUNTARY BENEFITS PLAN FOR UA  
 8005 JEFFERSON ULTRA SERVICE INC  
 SUNOCCO  
 VALERO ENTERPRISE LLC  
 8045 AMBASSADOR NURSING HOME  
 MOROUN NURSING HOME INC  
 8100 ALEXANDER, TONYA  
 BONAY, SOLOMON  
 BOWERS, TODD  
 BROWN KATHERINE H  
 BROWN, LAVERNE  
 BUTLER, RODNEY  
 CALVERT, WYLEAN  
 CARMA S  
 CEASER, EC C  
 CHEEKS, MARLENA  
 COLEMAN, LALAFINA  
 COLLINS, S  
 DANDRIDGE, LEON  
 DEAN, ALINDA A  
 DOROUGH, TINA  
 DURRAH, CHRISTINE  
 EMILYS ELEGANT EVENTS  
 ENGLISH, ANDREW E  
 FAYES HAIR SALON

**E JEFFERSON AVE 2010 (Cont'd)**

8100 GIBSON, I  
GREEN, JULIA  
HAWKINS, KEVIN  
HAYES, JOYCE A  
HICKS, L  
HUGHES COMPANY LTD  
HUGHES, SANDRA M  
HUNTER, STEVEN C  
IMIM, JOSHUA  
JAMES, ERICA  
JOHNSON, DELIA  
JONES, SHIRLEY M  
JORDAN, GREG D  
KIERST, WILLIAM  
KING, KATHERINE  
LEE SANG H MD  
LIGE, A  
LUNN, DEONDRE  
MACKEY, ROBERT  
MALONE, DANIEL K  
MARQUES ALEXI DUPREE  
MAY, DEVION  
MAYE, NEFERTITI R  
MCBRIDE, LAWRENCE E  
MCCARTHEY INDUSTRIES INC  
MCCORMICK, SHEILA  
MCGOWAN, MARIE  
MCINTOSH, CARMEN L  
MIDGETT, RODNEY  
MOORE, JOHN H  
NEWELL, GLORIA J  
NICKELSON, KAI  
ODUMS, CHAVON  
PYE, REUBEN A  
RAMSEUR, RONNETTE M  
RIVERS, DONOVAN A  
ROBINSON, ALFRED  
RONALD MOORING  
SANG, H  
SEGAN, SHAWN  
SHEEKS, MARLENA  
SOW, MOUSTAPHA  
SPIVEY, DEVAINE  
STEWART, KATHY  
TATE, GENI K  
TRUITT, EBONI  
WALKER, AUDONTE  
WHITE, ELLIS M  
WHITFIELD, SYLVIA  
WILLIAMS, ROCHELLE



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**E JEFFERSON AVE 2010 (Cont'd)**

8100 WYCHE, LYNN

**E JEFFERSON AVE 2005 (Cont'd)**

7726 BREWER, JAMES C  
 BYNUM, L A  
 CARTER-GRIFFIN, K  
 INFO TO GO INC  
 KOWAL, CHRISTINE A  
 LEWIS, J  
 MARSHALL, CHRISTOPHER D  
 MCGHEE, ELLA E  
 NNAMDI, I D  
 PITTMAN, MARY L  
 PUCKETT ENTERPRISES  
 TIERT, LORETTA  
 WILLIAMS, TARNELL

7728 ALLEN, NORMA J  
 ARCHIE, CHARLES B  
 BURNS, NICOLE  
 CORNELIUS, JOHN  
 CRAWFORD, SAMUEL K  
 GRIER, MARK A  
 HENRY, WAYNE R  
 KIMBROUGH, HOPE N  
 NELSON, MAE I  
 PREMIER SUPPLIERS  
 SLACK, LARRY

7730 BLANFORD, DEBORAH  
 LEWIS, BRENT A  
 MOORE, YVONNE D  
 ONEIL, CLARENCE E  
 THOMPSON, RENEE G

7732 ALBRECHT, WILLIAM A  
 ALDRIDGE, RAYMOND W  
 BROWN, NICOLE  
 HARDY, JOHN W  
 WHITE, PANESSA

7733 SAINT JOHNS MEDICAL LIBRARY  
 ST JOHN HEALTH  
 TOURO UNIVERSITY

7800 ACKLIN, CONNIE L  
 ALEXANDER, JAMES  
 ALEXANDER, SHARON G  
 ALFORD, B  
 ALLEN, DAISY  
 ALLEN, MARCELLA  
 ANDERSON, OZIAS  
 ANDERSON, WILLIE E  
 ANTHONY, JERRY L  
 ANTLE, ANNA M  
 ARBITTER, JO  
 ARCHIBALD, BLANCHIE B  
 ARCHIE, DOROTHY



**E JEFFERSON AVE 2005 (Cont'd)**

7800 ARMSTEAD, ELAINE R  
 ARMSTRONG, ALLA  
 ARMSTRONG, DOROTHY  
 AYLER, ROSA L  
 BAILEY, ARCHIE  
 BAILEY, FRANCES R  
 BANKS, BERNICE  
 BARBER, MARY L  
 BARNES, EUGENE E  
 BEAMON, LILLIAN J  
 BEASLEY, CORINE  
 BEATON, PHYLLIS P  
 BELL, MONCIE  
 BENDER, ERMA M  
 BENSON, MM  
 BEST, THELMA  
 BICKLEY, MONTEZ  
 BLOCKSON, LEE A  
 BLUE, ALBERT  
 BOKOTA, STANLEY  
 BOLDEN, MATTIE  
 BRADBERRY, JUDITH  
 BRADLEY, PAUL  
 BRAZIER, JOHN W  
 BRIDGEMAN, WILLIE  
 BRIDGES, LAWRENCE  
 BROWN, ABNER  
 BROWN, AGNES  
 BROWN-BLANKS, GENEVA  
 BROXTON, EUMON L  
 BUDDIN, FONTELLA K  
 BUFORD, ADA  
 BUGGS, ARDIE D  
 BYNUM, DORIS B  
 CAMMON, MARVIN  
 CAMPBELL, COLLIER F  
 CAMPBELL, LOIS A  
 CANNON, WINDSOR  
 CARD, SILAS  
 CARTER, BETTY  
 CASSIDY, BRENT  
 CHAMBERS, R  
 CHAPMAN, DELORES  
 CHAPMAN, E  
 CHAVIS, WILLIETTE  
 CLARK, BERTHA G  
 CLAYTON, CLARENCE  
 COHEN, ORANGE D  
 COLE, TIFFANY  
 COLVARD, DAVID M

**E JEFFERSON AVE 2005 (Cont'd)**

7800 COTTRELL, SHIRLEY  
CRAIG, EDGAR M  
DALE, JOSEPHINE  
DANIEL, PAUL  
DAVIS, PAULINE B  
DENNY, SUSIE  
DILLARD, VERA L  
DIXON, GEORGE H  
DOLLAR, ANDREW A  
DORITY, CLIFFORD L  
DOUGLAS, GWENDOLYN  
DOYLE, MAURICE L  
DRAKE, CLEO  
DRAW, RUBY V  
DUDLEY, DELORIS A  
DUDLEY, FOREST  
EDWARDS, PHYLLIS D  
ELLIOTT, ANTHONY  
ETLINGER, PHYLLIS  
EVANS, ANDRE L  
FAIRBANKS, WILLIAM S  
FARLEY, LINDA M  
FARROW, RUTH  
FAULK, ADDIE L  
FEAZELL, MARGARET  
FINN, WILHELMINA  
FOLEY, VIRGINIA  
FOREHAND, JOE R  
FOSTER, CURTIS  
FUQUA, EVELYN C  
GAINES, WILLIAM  
GASS, ULYD  
GILCHRIST, OLIVIA C  
GILLIAM, JOE N  
GIPSONJONES, CLAUDIA  
GLEATON, LEEGRAND G  
GLENN, MARY F  
GLENN, NORRIS  
GOODE, LETITIA  
GOODMAN, MABLE  
GRADY, WILLIAM A  
GRAHAM, VONCILE  
GREENE, IRMA J  
GRIER, BOBBIE J  
GUNN, GERALDINE J  
GUYDEN, FRANCES  
HAIRSTON, EVERETT  
HALE, PRESTON B  
HANKINS, FREDDY  
HARDRICK, LOUISE

**E JEFFERSON AVE 2005 (Cont'd)**

7800 HARMON, JAMES  
HARRELL, KATHERINE  
HARRIS, QUINCY  
HAWK, FLORENCE  
HAYNES, GENNIE  
HENRY, JAMES  
HENRY-GATLING, JOYCE  
HERON, LEE N  
HICKS, WINTON L  
HILDRETH, DOROTHY M  
HILTON, INA  
HINER, KIMBERLY M  
HINES, VERNA  
HINTON, ROBERT  
HOBBS, VIRGIL A  
HOLLAND, ANNIE M  
HOLMEN, SHAWN F  
HOLSEY, ALBERT  
HOPKINS, WILL  
HORTON, EUNICE M  
HUMPHREY, ERNESTINE  
HURNS, JOHN W  
HUTCHINSON, MURRAY  
JACKSON, DELILLIAN E  
JACKSON, DOROTHY  
JACKSON, MARSHA C  
JAMES, LESIA  
JENKINS, J  
JOHNSON, BARBARA J  
JOHNSON, ROLAND  
JOHNSON, THOMAS  
JONES, AUDREY  
JONES, ERNESTINE M  
JONES, FRANK R  
JONES, SHIRLEY M  
JORDAN, CLARA  
JOYCE, ANNETTE  
KELLY, BETTY B  
KENNEDY, HERMAN  
KING, OLIVE M  
KING, SAMUEL  
KIRKLAND, DOROTHY M  
KNIGHT, JOHNNIE E  
LAWSON, DAVID J  
LEE, SAMMIE C  
LEWIS, SAMSON  
LI, JUSU  
LOCKETT, EDWARD  
LONG, GEORGE  
LOVE, BRUCE A

**E JEFFERSON AVE 2005 (Cont'd)**

7800 LUCKETT, CLASSIE B  
LUCKETT, ESSIE B  
LYNEM, VEESTHER R  
MAEH, CHRISTINE  
MARKWOOD, SUE  
MARSHALL, BERNICE  
MARTIN, DAWN A  
MATHIS, VALERIE A  
MATTHEWS, VALTINE  
MAYERS, AZELINE  
MAYES, LIZZIE M  
MCCOY, LILLIE  
MCGHEE, MELVYN D  
MCMURRAY, KENNY  
MCNARY, CHARLOTTE A  
MELVIN, MARY W  
MILES, ELIZABETH  
MILLS, CALLIE  
MILLS, EDWARD L  
MINNIEFEE, LEONARD  
MONTGOMERY, DOUGLAS W  
MOON, IRENE  
MOORE, BETTY  
MORMAN, ADELE  
MULLINS, ALLIE M  
NASH, ANNIE L  
NASH, JENNIE M  
NEAL, CHRISTINE  
NELSON, JAMES H  
NELSON, MARGARET  
NELSON, SADIE  
NICHOL, ODESSA L  
NIXON, MATTIE B  
ORR, MARION  
OWENS, JOYCE A  
OWENS, MARION  
PATTERSON, DOROTHY  
PEOPLES, MARLENE  
PERRY, CARTHORN A  
PHELPS, ROBERT J  
PHILLIPS, GRADY E  
PINKSTON, BOYD C  
POLLARD, REBECCA  
POMILEE, WILLIE M  
POPE, GERTRUDE  
POWELL, EDDIE M  
PRINCE, ETHEL B  
PUGH, ALPHONSE  
PURYEAR, MILDRED  
RAINEY, ANNIE L

**E JEFFERSON AVE 2005 (Cont'd)**

7800 RANDOLPH, ELLEN T  
RAY, LEE  
RAYMOND, GEORGE A  
REDMOND, LUEGEAN G  
REED, MILES M  
REESE, GRACE L  
REUBEN, ISSAC  
RHEINHARDT, MOLLIE M  
RICHMOND, EVA M  
RIDLEY, GEORGE E  
RILEY, KENNETH L  
ROBERTSON, LUGINE  
RUSHING, GLORIA J  
SANDELIN, LOTIPAH  
SANDERS, L  
SATTIEWHITE, MYRTLE L  
SCOTT, LULA M  
SCOTT, ROSIE L  
SCOTT, WILLIE M  
SEARCY, LENA  
SEATON, EVA L  
SELLERS, SHERRY  
SHABAZZ, EUNICE M  
SHELTON, AUDREY L  
SHIELDS, CASSANDRA I  
SHIRLEY, PAUL B  
SMITH, A  
SMITH, MAHULDIA  
SMITH, MURLINE M  
SMITH, VIRGINIA V  
SOLIMAN, MOUNIAR  
SPANN, SIMMONS  
SPANN-SIMMOND, BETTY  
SPRATT, LARA E  
STANLEY, ABRAHAM B  
STEVENS, AZIBO K  
STEWART, M  
STONE, MARY L  
SULLIVAN, BARBARA A  
SULLIVAN, DOROTHY  
SWIFT, BEATRICE M  
TAYLOR, BLANCHE  
TAYLOR, LUTHER  
THOMAS, DAVID  
THOMPSON, T  
TOLLIVER, HARRISON  
TRUELOVE, DAVID I  
TUCKER, MAY  
TURNER, ALVIN J  
WALKER, PEGGY A

## E JEFFERSON AVE      2005      (Cont'd)

7800	WALLER, ROBERT J WARD, MINNIE J WATSON, SHIRLEY A WATTS, SEBRON E WAY, ENOCH WEBB, FRANCES T WEEMS, GERTRUDE WHEELER, WILLIE M WILKERSON, WILLIE WILLIAMS, CAROL WILLIAMS, CLARA D WILLIAMS, DAVID L WILLIAMS, DORORTHY WILLIAMS, KATY L WILLIAMS, MATTIE C WINBURN, FLOSSIE M WOODS, MARY WRIGHT, VERNA L YOUNG, THELMA J ZACKERY, PRIMUS B
7815	CONSULTANTS IN OPHTHALMOLOGY PC DOSHI USHAL MD GOTTAM NARSIMHA MD GREENSPAN & ASSOCIATES MACK ALIVE INC RICHARDSON PEGGY M D RMO PHARMACY SEABROOKS FRANKLYN E MD ST JOHN HEALTH WATTS RUTH ANNETTE MD WOMANCARE OF SOUTHFIELD PC
7875	PATTAH HUTCH
7889	GARALINOS PIZZA INC
7895	DICK S BAIT & TACKLE SHOP
7919	ALEXANDERS IN GREEKTOWN INC ASHLEYS FLOWERS INC
8000	INTERNATIONAL UNION UNITED AU INTERNATIONAL UAW FEDERAL CR UN SUSAN HARWOOD TRAINING GRANT P UAW HEALTH & SAFETY DEPT UAW INTERNATIONAL UAW PUBLIC RELATIONS UAW SOLIDARITY HOUSE UNION BUILDING CORPORATION UNITED AUTO WORKERS UNITED AUTO WORKERS AMERICA WORKER HEALTH & SAFETY TRAINING
8005	JEFFERSON ULTRA SERVICE INC
8009	JEFFERSON VILLAGE ENTERPR
8045	MOROUN NURSING HOME INC

**E JEFFERSON AVE 2005 (Cont'd)**

8100 ALDEN PARK TOWERS  
BEARD, GAIL D  
BELL, TOSHIBA Y  
BOLDEN, APRIL  
BONABY, CLEOPAS M  
BOOKER, C  
BROWN, TONISHA  
BUTLER, NORMAN  
CARTER, JACINTA A  
CASON, KAREN M  
COLEY, BRANDON W  
COLLINS, D  
COLLINS, S  
COOPER, OLLIE  
DAVIS, NADIA  
DENNIS, AZIZMALIK A  
ELLIS, R T  
ENGLISH, ANDREW  
FLYNN, STEPHANIE D  
GIBSON, ETHEL  
GLOGER, KURT L  
GRAWFORD, JENNYFER  
HALE, VALERIE A  
HARRIS, LEE  
HARVEST, FRANK J  
HENDERSON, DERRICK J  
HICKS, L  
HODGES, TERRANCE X  
HUNTER, STEVEN C  
HYMON, JESSICA M  
JACKSON, ANDRE  
JOHNSON, ALLEN  
JORDAN, GREG  
LEE SANG H MD  
LEE, S H  
LOONEY, NICHOLE  
MALONE, DANIEL K  
MARQUES ALEXI DUPREE  
MATHIAS, SHIRLEY J  
MCCALL, TIMOTHY  
MCCARTHEY INDUSTRIES INC  
MCCURTIS, DENISE  
MCDANIEL, JEFFREY C  
MCGHEE, SHAUN  
MCINTOSH, CARMEN L  
MILLINER, F  
MIREE, CINDY  
MITCHELL, O L  
MOORE, JOHN  
MOORING, RONALD L

**E JEFFERSON AVE 2005 (Cont'd)**

8100 MORTON, TERRELL  
MURRAY, LAMIEL A  
NELSON, QUENETTA R  
NEWELL, GLORIA J  
NUBIAN ESSENCE  
OWOBORODE, YEMI F  
PATILLO, LATOI M  
PEGGY, YOUNG  
PULLIN, NIRA J  
RAINEY, RAINADA  
RICHARDSON, IDA  
RIVERA, MARCUS J  
ROSE, JOY  
SINGLETON, VICTOR B  
SOW, MOUSTAPHA  
TATE, GENI K  
THIAM, MAMADOU  
THOMAS, RICARDO P  
TORRENCE, CHEMEKA  
TUFT, VERNITA R  
UNITED PHARMACEUTICAL SERVICES  
VERNON, LUCILLE S  
WALKER, FRANKLIN  
WATERS, ANGELA Y  
WHITE, WILLIAM H  
WILLIAMS, ACE  
WILLIFORD, SHANTI  
WYATT, CAMILLE M  
YOUNG, PEGGY A



## E JEFFERSON AVE

2000

(Cont'd)

7728 MAY, LEON  
 NELSON, MAE  
 PANKEY, BETTY  
 PARKER, JESSE J  
 POLLOCK, TODD  
 WILKINS, NATASHA J  
 7730 HIGGINS, JAMES V  
 ONEIL, C E  
 7732 HARDY, JOHN W  
 WALWORTH, BONNIE  
 7733 DETROIT-MACOMB HOSPITAL CORP  
 OUTER DRV ANESTHESIOLOGISTS PC  
 7800 ALLEN, ERSKINE  
 AMBROSE, ETHEL  
 ANDERSON, RONALD  
 ARNOLD, MAURICE  
 AYLER, ROSA  
 BAILEY, FRANCES K  
 BAKER, RUTH L  
 BANKS, H D  
 BANTA, L E  
 BARNES DONALD  
 BARNES, JUANITA  
 BATES, CHARLES  
 BEAM, D  
 BEATTY, WILLIE M  
 BENTON, JOANNE D  
 BEST, THELMA  
 BILLINGSLEA, REUBEN  
 BILLS, K C  
 BISHOP, H  
 BLANFORD, DEBORAH  
 BLANK, DALE R  
 BOKOTA, STANLEY  
 BOLDEN, MATTIE  
 BOND, EDDIE S  
 BOWDEN, ALFREDA  
 BOYD, WILLA M  
 BRIDGES, GLORIA J  
 BRIGGS, T  
 BROOKS, EVA  
 BROOKS, P A  
 BROWN, ABNER  
 BROWN, CHARLES  
 BROWN, WILLIAM  
 BROXTON, EUMON  
 BUFORD, HELEN  
 BUGGS, ARDIE D  
 BULLOCK, B  
 BURNS, F T

**E JEFFERSON AVE****2000****(Cont'd)**

7800 BURRELL, ELNORA  
BUTLER, DORETHA  
CALDWELL, LEA L  
CAMMON, LUCILLE  
CAMPBELL, COLLIER  
CARD, JUANITA  
CARMELL, HEDY  
CARTER, L B  
CHAMBERS, R  
CHAVIS, A B  
CLARK, B  
CLARK, JESSE W  
COHEN, O D  
CONLEY, CLAY  
COOK, WILLIAM  
COTTRELL, SHIRLEY  
CROOK, K  
CUMMINGS, LOUISE  
DANIEL, PAUL  
DAVIS, CARRIE M  
DAVIS, P B  
DENNY, SUSIE  
DILLARD, BLANCHE  
DIXON, TANISHA  
DORITY, FANNIE  
DOYLE, E  
DRAW, RUBY  
DREVN NATURALS SALON  
DUDLEY, FOREST  
EADY, PHILLIP E  
ECHOLS, MARY  
EDMONDS, ARTHUR  
EDWARDS, PHYLLIS D  
EGRINI, GRACE  
ELLIOTT, ANTHONY  
ELLIS, TOMMIE  
EVANS, LUCY J  
FEAGIN, B  
FEIMSTER, C  
FERGUSON, JOSEPH  
FOREHAND, JOE  
FROEHLICH, E E  
FUQUA, EVELYN C  
GARNER, H  
GATLING, CARL M  
GILLIAM, JOE N  
GIPSON-JONES, CLAUDIA  
GLASS, VERGIE  
GLEATON, L  
GOODMAN, J

**E JEFFERSON AVE 2000 (Cont'd)**

7800 GORDON, CHARLES  
GRANT, NELLIE  
GRAY, WILLIAM W  
GRIFFIN, IDA  
GUICHARD, ROBERT  
GUNN, G J  
HANKERSON, WILLIE  
HANKINS, FREDDY  
HANSBERRY, MARIE  
HARMON, JAMES  
HARPER, GINO  
HARRELL, K  
HARRIS, OTHA  
HARRIS, ROSETTA  
HAUGABOOK, MILDRED  
HAWK, F  
HEARD, WILLIE  
HENRY, GATLING J  
HICKEY, M  
HICKS, WINTON L  
HOBBES, FRANK K  
HOGUE, GAINES A  
HOLLAND, ANNIE M  
HOLMEN, FRANCES  
HOPKINS, ANNIE  
HORTON, ETHEL M  
HUNT, MYRTIS  
HURLEY, RICHARD  
HUTCHINSON, MURRAY  
JACKSON, ETHEL  
JACKSON, V  
JACKSON, WILLIE L  
JENNINGS, ELIJAH  
JOHNSON, C K  
JONES, D  
JONES, E  
JONES, GEORGE A  
JONES, HELEN M  
JONES, LOTTIE  
JONES, P E  
KELLEY, CARRIE L  
KELLY, B  
KENNEDY, MILDRED L  
KERSHAW, P  
KING, OLIVE M  
KUYKENDALL, LOUISE L  
LANG, LILLIE M  
LEE, WILLIAM E  
LEWIS, LUCILE  
LITTLEJOHN, JANIE

**E JEFFERSON AVE 2000 (Cont'd)**

7800 LOCKETT, EDWARD  
LOVE, BRUCE  
LOWE, GERALD K  
LOWERY, JOALLEN  
LUCKETT, ESSIE B  
MANNING, SAMMY  
MARCUS, BARBARA  
MARTIN, WILLIE B  
MAYES, LIZZIE M  
MCCOLLOUGH, ELLA  
MCDONALD, PHILIP J  
MCGHEE, ADOLPH A  
MCGHEE, MELVYN  
MCWHITE, LEROY  
MEEKS, T J  
MILLER, D M  
MIMS, C  
MINNIEFEE, DOLLIE  
MITCHELL, M J  
MOBLEY, ELEANOR  
MONTGOMERY, DOUGLAS  
MOON, IRENE  
MOORE, CARNELL  
MOORE, L J  
MORRIS, OPHELIA M  
MULLINS, ALLIE M  
MUMFORD, DOROTHY M  
NASH, ANNIE  
NASH, J  
NEAL, C  
NELSON, JAMES  
NEWTON, BARBARA  
PARKER, ARMAND F  
PARKER, OLEY  
PHILLIPS, DEANNA  
PHILLIPS, GRADY  
POMILEE, WILLIE M  
POPE, G  
POWELL, EDDIE M  
POWELL, ELSIE  
PRINCE, ETHEL B  
PUGH, A  
PURYEAR, MILDRED  
QUARLES, THELMA  
RANDOLPH, ELLEN  
RANDOLPH, LUCY B  
RAYMOND, GEORGE A  
REED, IDA R  
REED, MICHAEL  
REED, WILLIAM

**E JEFFERSON AVE      2000      (Cont'd)**

7800 REESE, GRACE  
 RHEINHARDT, MOLLIE  
 RICHMOND, EVA M  
 RIDLEY, GEORGE E  
 RILEY, MILLIE  
 RIVER TOWERS  
 ROBINSON, INDIA  
 ROBY, WILLIE A  
 ROQUEMORE, ARVELIA  
 ROSCOE, CARL E  
 SAMAKLIS, BETTY J  
 SANDERS, L  
 SATTIEWHITE, MYRTLE  
 SCONYERS, VIRGIN D  
 SCOTT, GEORGE W  
 SCOTT, HELEN  
 SCOTT, L  
 SEARCY, LENA  
 SHELTON, AUDREY  
 SHIELDS, C I  
 SITZMANN, G  
 SLEDGE, P L  
 SMITH, ERNEST  
 SMITH, MOLLY S  
 SMITH, MURLINE  
 SMITH, REO  
 SMITH, V  
 STANQUITS, B  
 STEWART, WILLIE N  
 SYKES, OPHELIA  
 TATE, ETHEL  
 TATUM, MARY E  
 TAYLOR, B  
 TAYLOR, CHARLES  
 TAYLOR, JAMES O  
 THOMAS, C  
 THOMAS, DAVID  
 THOMAS, F T  
 THOMAS, HATTIE  
 THOMAS, INEZ  
 THOMAS, J  
 THOMAS, P M  
 THOMAS, TESSIE  
 THOMPSON, L  
 TISDALE, GLORIA L  
 TUCKER, BERNICE  
 TURNER, ALVIN  
 VANPROOSTENBERG, MARY  
 WALLACE, C  
 WALLACE, CORRINE

## E JEFFERSON AVE

2000

(Cont'd)

7800 WALLER, GLADYS  
 WARD, R  
 WARDFORD, ESTHER  
 WATERS, HERSTON E  
 WATLEY, LALIE  
 WATSON, SHIRLEY A  
 WEEMS, G  
 WILKERSON, WILLIE  
 WILLIAMS, A  
 WILLIAMS, CAROL  
 WILLIAMS, EARL  
 WILLIAMS, FLORA  
 WILLIAMS, FRED A  
 WILLIAMS, I M  
 WILLIAMS, JOHN H  
 WILLIAMS, SAMUEL  
 WILSON, MAE  
 WILSON, NORVAL L  
 WILSON, ROSIE M  
 WINBURN, FLOSSIE  
 WINGATE, B  
 WOMACK, YVONNE  
 WOOLRIDGE, ERNEST  
 WRIGHT, E  
 YOUNG, LOUIE  
 ZACKERY, PRIMUS  
 ZINNERMON, I  
 7815 DETROIT-MACOMB HOSPITAL CORP  
 MACK ALIVE  
 MAISEL HARRY MD  
 PARK FAMILY HEALTH  
 WOMANCARE OF SOUTHFIELD PC  
 7869 GARALINOS PIZZA INC  
 7875 PATTAH HUTCH  
 7895 DICK S BAIT & TACKLE SHOP  
 7919 WHY-NOT FLOWERS  
 8000 AUTO WORKERS UAW LOCAL 1304  
 INTERNATIONAL UNION UNITED  
 INTERNTONAL UAW FEDERAL CR UN  
 UAW INTERNATIONAL  
 UAW PUBLIC RELATIONS  
 UNION BUILDING CORPORATION  
 8005 JEFFERSON ULTRA SERVICE INC  
 8045 JOHNSON, DELORES  
 MOROUN NURSING HOME INC  
 8100 ABDALLA, NAVEEN  
 ALDEN PARK MARKET  
 ALDEN PARK TOWERS  
 BARTON, MONICA R  
 BEARD, GAIL

**E JEFFERSON AVE 2000 (Cont'd)**

8100 BONABY, CLEOPAS M  
BOYEA, JOY  
BRAGG, ANDREA  
BRANDEMIHL, ALICE L  
BRIES BOUTIQUE  
COBB, LIZA  
COOPER, ELIJAH A  
CRAWFORD, L  
DAVIDSON, ALEXIS  
DUHART, WILLIAM  
E & G MEDICAL ASSOCIATES P C  
ELLISON, MICHAEL  
F & M PROTECTION INC  
FOSTER, JAMES  
GARDNER, NINA J  
GIBSON, JAMES  
GLOGER, KURT  
GREEN, ALAN M  
GRESHAM, CONNIE  
HAIDARA, A  
HARLAN, K  
HODGES, T X  
HUNTER, S  
HUNTER, STEVEN  
JARVIS, DONNA  
JORDAN, GREG  
LEE SANG H MD  
LEE, S  
MARTIN, R  
MARTIN, WANDA  
MASOURIS, P  
MATHIAS, S J  
MCCLENDON, GERALD  
MCCURTIS, DENISE  
MCDANIEL, JEFFREY  
MCGHEE, CALVIN  
MIREE, CINDY  
MOORING, RONALD  
MORTON, TERRELL  
MOSLEY, FAYE V  
MURRAY, KAREN D  
NEWELL, GLORIA  
OBIDZINSKI, EDWARD P  
OVERTON, VALERIA  
PARKWYCKE TOWER APARTMENTS  
PAYMON, MARY L  
REDMOND, TAMARA A  
SHIELDS, MICHAEL A  
SINGLETON, EUGENE V  
SMOOT, D S

**E JEFFERSON AVE      2000      (Cont'd)**

8100    TATE, GENI  
         THAGGERT, TAMMY  
         THOMAS, RICARDO  
         THOMPSON, S  
         TORRENCE, CHEMEKA D  
         WATERS, ANGELA  
         WATLEY, LLOYD  
         WHITE, DELORES  
         WILEY, REUBEN  
         WILLIS, D  
         WINARSKI, RICHARD J



**E JEFFERSON AVE 1995 (Cont'd)**

7726 CARREE, TONYA  
 CHAPMAN, COLIN  
 COLLINGS, JOHN R  
 DISTEFANO, S  
 GAYLOR, A  
 KEESEE, AJA  
 PADIEU, MARIUS  
 STRONG, T B  
 7728 MUNKWITZ, K  
 RUSSELL, BRUCE  
 SATWICZ, M L  
 TERRI, J A  
 WISNIEWSKI, JANE E  
 7730 BAGLEY, EUNICE  
 IRBY, E  
 MARTINEZ, PAUL  
 PEYRAT, JEAN A  
 7732 HARDY, JOHN W  
 KEITH, GILDA  
 ROSSA, IRENE J  
 SCOTT, RICHARD  
 7733 DETROIT-MACOMB HOSPITAL CORP  
 DPH ENTERPRISES  
 MARRIOTT FOOD/RIVERVIEW H  
 OUTER DRV ANESTHESIOLOGISTS PC  
 TRIANGLE DRUGS NO 2  
 7800 ALLEN, ERSKINE  
 ANDERSON, J C  
 ANDERSON, OTIS  
 AYLER, ROSA  
 AZEEZ, TARIQ  
 BAKER, WILLIAM  
 BANKS, H D  
 BANTA, L E  
 BARNES, CLEDUS  
 BASKERVILLE, G W  
 BAXTER, AURELIA  
 BEATTY, W M  
 BELL, ANDRE  
 BENJAMIN, P  
 BENTON, J  
 BEY, CECIL H  
 BLAND, E I  
 BLOCK, ARAY  
 BOKOTA, STANLEY JR  
 BOLDEN, MATTIE  
 BOWERMAN, PHYLLIS  
 BOYD, ANGELA R  
 BOYD, WILLA M  
 BOYKIN, GEORGIE A

**E JEFFERSON AVE 1995 (Cont'd)**

7800 BRABOY, P  
BRADFIELD, JUANITA  
BROOKS, ABE  
BROWN, CHARLES  
BUFORD, HELEN  
BUGGS, ARDIE D  
BURNEY, ROBERT J  
BURNS FUNERAL HOME  
BURNS, F T  
BURRELL, JOHN H  
BUTLER, ELIZA  
CAFAGNA, J  
CALVIN, WILLIE  
CAMMON, LUCILLE  
CAMPBELL, COLLIER  
CARD, JUANITA  
CARTER, L B  
CAVER, ALBERT  
CAVETT, DELORES  
CHAMBERS, R  
CHAVIS, A B  
CLARK, B  
CLARK, MARVIN  
CLAY, EDDIE  
COHEN, O D  
COLE, C  
COLE, MARIE D  
COLEMAN, MARRIE  
COLLINS, JAMES  
CONLEY, JESSIE  
COOPER, TAYLOR H  
COTTERELL, C  
CRAWFORD, E SR  
CUMMINGS, LOUISE  
DANIELSON, PAULINE  
DAVIS, THOMAS  
DEMARTINO, C E  
DENTER, ROSA L  
DOUGLAS, G  
DUDLEY, FOREST  
DUKES, CLIFTON  
DUNCAN, LEONARD T  
DUNNIGAN, ZANA  
EADY, PHILLIP E  
ECHOLS, M  
EDGERSON, SAMUEL  
EDMONDS, ARTHUR  
EDWARDS, P D  
ELDER, ADDIE  
ELLIS, TOMMIE

**E JEFFERSON AVE****1995****(Cont'd)**

7800 EMBRY, JOYCE  
EVANS, LUCY J  
FEDURUK, C H  
FEIMSTER, C  
FERGUSON, JOSEPH  
FISHER, WILLIAM H JR  
FORD, R  
FOREHAND, JOE  
FOURMIDABLE GROUP INC  
FREEMAN, JOHNNIE  
FROEHLICH, E E  
GAINES, LAVERNA  
GANT, THOMAS  
GARRETT, LINDSAY  
GATLIN, BOSIE  
GAY, ODELIA  
GIBBS, CHARLES  
GLEATON, L  
GOOD, EVELYN  
GOODNIGHT, G V  
GRANT, NELLIE  
GRAY, WILLIAM W  
GREEN, C  
GRIGGS, DORIS C  
GUNN, G J  
HALL, B E  
HARDEN, DOROTHY  
HARPER, A L  
HARRIS, H  
HARVEY, RHONDA  
HAUGABOOK, MILDRED  
HAWK, F  
HAYES, K  
HEARD, WILLIE  
HESTER, A  
HICKEY, THOMAS  
HILDRETH, DOROTHY M  
HILTON, MARY A  
HOGAN, JAMES  
HOGUE, GAINES A  
HOLLAND, ANNIE M  
HORTON, ETHEL M  
HUGHES, S L  
HUNT, M  
HUNTER, MARY  
HURLEY, RICHARD  
INGRAM, R  
JACKSON, GEORGE T  
JACKSON, V  
JACKSON, WILLIAM O SR

## E JEFFERSON AVE

1995

(Cont'd)

7800 JAMES, FRANK E  
JENNINGS, ELIJAH  
JOHNSON, JOHN  
JOHNSON, L  
JONES, E  
JONES, GEORGE A  
JONES, HELEN M  
JONES, P E  
JOYNER, E  
KELLEY, CARRIE L  
KELLY, B  
KIDD, OLA  
KING, OLIVE M  
KUYKENDALL, LOUISE L  
LANG, LILLIE M  
LASENBY, CARRIE  
LAUBE, L L  
LAUDER, R  
LEE, WILLIAM E  
LOCKETT, EDWARD  
LOVE, BRUCE  
LOWERY, JOALLEN  
LUCKETT, ESSIE B  
MACKEY, LUCILLE M  
MARTIN, RUBY  
MASSEY, CHARLES JR  
MATTHEWS, ROY F  
MAYES, LIZZIE M  
MAYNARD, O  
MCCANN, KEITH  
MCDONALD, PHILIP J  
MCFARLIN, JANIE  
MCGHEE, MELVYN  
MEANS, VERNON  
MERRITT, JOHN E  
MIDDLEBROOKS, ARTHUR  
MILLER, D M  
MINNIEFEE, D M  
MITCHELL, M J  
MONTE, M L  
MONTGOMERY, DOUGLAS W  
MOORE, E L  
MOORE, GLORIA C  
MOORE, L J  
MOORE, MOZELLE E  
MORGAN, MABLE  
MORRISON, HAZEL  
MOSLEY, GREER  
MULLINS, A M  
MURPHY, C

**E JEFFERSON AVE 1995 (Cont'd)**

7800 MYERS, L  
NANCE, EVERETT  
NASH, J  
NASH, MARY  
NELSON, JAMES  
NICHOLSON, E D  
NORED, PAUL  
NORMAN, MARY  
NUNN, L  
ONEAL, ROBERTA  
PACK, WILLIE B  
PAIGE, LESSIE  
PARKER, ALPHA M  
PARKER, ARMAND F  
PARKER, JESSIE  
PERKINS, SHAW  
PHELPS, ROBERT  
PITTS, ANNIE L  
POWELL, ALVIN  
POWELL, ELSIE  
PUGH, A  
QUARLES, THELMA  
RANDOLPH, LUCY B  
RAYMOND, GEORGE A  
REED, WILLIAM  
REESE, GRACE  
REID, T  
RHEINHARDT, M  
RICE, MARY A  
RICHARD, DOROTHY G  
RIDLEY, GEORGE E  
ROBERSON, MAGGIE J  
ROBINSON, WALTER T  
ROQUEMORE, WILLIAM  
ROUNTREE, E  
RUCKER, RUTH M  
SAMAKLIS, JAMES T  
SCAGGS, WILLIAM A  
SCONYERS, VIRGIN  
SCOTT, GEORGE W  
SEARCY, LENA  
SEEWOOD, G  
SEGREST, MARTHA  
SHIVELY, MARION  
SIGLER, G A  
SIMMONS, SALLY  
SITZMANN, G  
SMITH, ERNEST  
SMITH, REO  
SMOTHERS, MICHAEL

**E JEFFERSON AVE 1995 (Cont'd)**

7800 SOMERVILLE, EARLINE  
SOREY, RHINIE  
SPENCER, E J  
STEPHENSON, HENRY  
STEWART, WILLIE N  
STRONG, LARRY  
SULLIVAN, ROCKLYN  
SWEENEY, KENNETH L  
SYKES, OPHELIA  
TATE, ETHEL  
TATE, JOHN C SR  
TATUM, MARY E  
TAYLOR, B  
TAYLOR, WILLIE C  
TERRELL, PAUL  
TERRELL, R  
THIGPEN, INEZ  
THOMAS, EMMA L  
THOMAS, F T  
THOMAS, P M  
THOMAS, TESSIE  
THOMPSON, L  
TRIBETT, LUCILLE  
TUCKER, BERNICE  
TURNER, JAMES R  
UNDERWOOD, J  
URBAN, M A  
VINCENT, CHARLES H  
WALKER, S  
WALLER, GLADYS  
WARDFORD, ESTHER  
WATERS, HERSTON E  
WEBB, POSIE  
WEEMS, G  
WEISS, H E  
WELLINGTON, J  
WESLEY, CALVIN  
WEST, ALBERTA  
WILKERSON, WILLIE SR  
WILLIAMS, ALBERTA  
WILLIAMS, HILLIS M  
WILLIAMS, L M  
WILLIAMS, SAMUEL  
WILSON, NORVAL L  
WILSON, ROSIE M  
WINBURN, FLOSSIE  
WOODS, CARLTON  
WRIGHT, JEDIE  
ZECH, E  
ZINNERMON, I

**E JEFFERSON AVE 1995 (Cont'd)**

7815 CHAN ROGER  
 DETROIT-MACOMB HOSPITAL CORP  
 JENKINS SIDNEY MD  
 JENKINS, DOROTHY M  
 LERNER, LARAN  
 MCCALL, M G JR  
 MEDICAL DCTORS FMLY CLINIC PC  
 SPOHN EARLE W JR DO  
 WOMANCARE OF SOUTHFIELD PC  
 7820 RICKS, VERG  
 7869 GARALINOS PIZZA INC  
 7875 CEDAR WORLD INC  
 SHEENA INVESTMENT COMPANY  
 7895 DICK S BAIT & TACKLE SHOP  
 7919 WHY-NOT FLOWERS  
 8000 AUTO WORKERS UAW LOCAL 1304  
 BERGER-HILL, BARBARA  
 INTERNATIONAL UNION UNITED  
 INTERNTONAL UAW FEDERAL CR UN  
 JOB DEVELOPMENT & TRAINING  
 UAW SOLIDARITY HOUSE ARA  
 UNION BUILDING CORPORATION  
 WALKER ROBERT  
 8005 SUN SERVICE CENTERS INC  
 8045 BELL, J  
 BLAKELY, JOHNNIE M  
 BODEEP, F  
 BROGDON, M L  
 BURNS, AUDREY  
 BURTON, ELNORA  
 COURTNEY, MARY J  
 FLOWERS, M  
 FORD, ETHEL  
 FOSTER, Z  
 FRANDS, B L  
 HOFFMAN, B J  
 HUGHES, LILLIAN  
 JOHNSON, EVA  
 JOHNSON, RUTH  
 JOHNSTON, M  
 MARX, BEN T  
 MILLS, HAYWOOD  
 MODICH, WANDA  
 MOORE, KELLER  
 MOROUN NURSING HOME INC  
 MURDOCKRAMSEY, BERNICE  
 MURRAY, E  
 PALMER, ETHEL  
 PEDERSON, LORETTA  
 PETRAKIS, K

**E JEFFERSON AVE      1995      (Cont'd)**

8045	PIGOTT, R V PINKARD, MARY RAMSEY, BERNICE M SHANNON, B SMITH, REBECCA STROTHER, LEONARD UNDERWOOD, E M WALLACE, R WEST, WENDELL A WILSON, FRANCES C
8055	OCCUPANT UNKNOWNN
8100	ALDEN PARK MARKET ALDEN PARK TOWERS BARRETTA, C BRANDEMIHL, L BRIES BOUTIQUE CARPENTER, CYNTHIA F CARR, BERNICE CLARK, ANGELA COLEMAN, L COLVIN, RENE COMPANIES LOONE INC CRAWFORD, L DAVIDSON, ALEXIS DAVIS, RENISHA FREEMAN, M GRAVITT, SAROYA GREENE, MARCIA GRIFFIN, F HARLAN, K HARRELL, PAMELA HODDE, L HUMPHREY, P M KUCHTA, H LEE SANG H MD LEE, S H LORD, LESLIE LOVE, GINA LOWE, DOROTHY MACAULEY, M A MARSHALL RUSS PHOTOGRAPHY MASOURIS, P MATHIAS, S J MCGHEE, CALVIN MCNAIR, JIMMY L MITCHELL, ANNIE MONTGOMERY, F MOORING, RONALD PAIGE, KORTNE PALMGREN, E



**E JEFFERSON AVE 1995 (Cont'd)**

8100 PARKSTONE THRPTIC TOUCH CLINIC  
PARKWYCKE TOWER APARTMENTS  
PENICK, BEN  
PERRY, G  
RANDALL, E  
REED, DANNY  
ROGACHEFSKY, ROBERT  
ROSE, S  
SAFFOLD, FRED  
SMOOT, D S  
STRAYHORN, SHERRY  
THOMAS, MICHAEL  
THOMPSON, ANGELA  
TRENT, K  
TUCKER, MOLLY B  
VANCE, CHRIS  
VARIANEAVES, K  
VENTOUR, M  
WOODWARD, J P

**E JEFFERSON AVE 1992 (Cont'd)**

7722 CRISTANCHO, MARIO  
 LEACH, J  
 SAINANEY, ALAN  
 7726 THOMAS, K L  
 7728 TERGRUEGGEN, J A  
 VOGEL, F L  
 WISNIEWSKI, JANE E  
 7730 PEYRAT, JEAN A  
 7733 DETROIT MEMORIAL HOSPITAL LIB  
 DETROIT-MACOMB HOSPITAL CORP  
 DPH ENTERPRISES  
 OUTER DRV ANESTHESIOLOGISTS PC  
 7800 ANDERSON, JOYCE C  
 BARRINGTON, B J  
 BELL, MENTIE  
 BOKOTA, STANLEY JR  
 BOLDEN, MATTIE  
 BOWERMAN, PHYLLIS  
 BRADFIELD, JUANITA  
 BROWN, M  
 BROWN, WILLIE E  
 CARTER, L B  
 CAVER, ALBERT  
 CHAMPION, ALBERTA  
 CLARK, B  
 CRITTENDEN, C  
 DAVIS, CHARLES E  
 DAVIS, JOE  
 DAVIS, KEAZIAH  
 DAVIS, THOMAS  
 DENISE, MARY  
 DUNN, CORINE  
 EDWARDS, OSCAR  
 EDWARDS, P D  
 FEIMSTER, C  
 FOURMIDABLE GROUP INC  
 FROEHLICH, E E  
 GARRETT, LINDSAY  
 GOODWILLIE, ALEX  
 GRAY, DAISY J  
 HARRIS, H  
 HEARD, V  
 HEARD, WILLIE  
 HICKEY, THOMAS  
 HORTON, ETHEL M  
 HUNT, M  
 JAMES, FRANK E  
 JAMES, G G  
 JOHNSON, EUGENE F  
 JOHNSON, G

## E JEFFERSON AVE

1992

(Cont'd)

7800 JOHNSON, JOHN  
JOHNSON, L  
JONES, E  
JONES, HELEN M  
JONES, P E  
JOYNER, E  
KLAWEKOSKI, C  
KOVAL, M S  
LEE, JOHN  
LEE, WILLIAM E  
MEANS, I V  
MILLER, D M  
MILLER, WILLIAM A  
MITCHUMS, E  
MONTE, M L  
MOORE, E L  
MOORE, L J  
MORRISON, A N  
MULLINS, A M  
MURDOCKRAMSEY, BERNICE  
NANCE, EVERETT  
NELSON, JAMES  
NELSON, RICHARD  
NEW PALACE BARBER SHOP  
NICHOLSON, E D  
PAIGE, LESSIE  
PARKER, ESTON W  
QUARLES, THELMA  
RIDLEY, GEORGE E  
ROBERSON, MAGGIE J  
ROBINSON, WALTER T  
ROUNTREE, E  
RUSH, STELLA  
SCHULTZ, EMIL  
SEGREST, MARTHA  
SHIVELY, MARION  
SIGLER, G A  
SILVERS, B  
SMITH, ERNEST  
SMITH, REO  
TATE, JOHN C SR  
TATE, ROBERT  
TAYLOR, B  
TAYLOR, JAMES O  
TAYLOR, JOANA  
THOMAS, P M  
THOMAS, TESSIE  
TURNER, SAMUEL  
WELLINGTON, J  
WILLIAMS, L A

**E JEFFERSON AVE 1992 (Cont'd)**

7800 WILLIAMS, WILLIE  
 WOODS, CARLTON  
 WOODS, EDWARD  
 WOOTON, H F  
 WRIGHT, JEDIE  
 ZECH, E  
 7815 JENKINS SIDNEY MD  
 MCCALL, M G JR  
 RIVERVIEW MEDICAL OFFICES  
 SMYD, E S  
 WOMANCARE OF SOUTHFIELD PC  
 7820 RICKS, VERG  
 7869 GARALINOS PIZZA INC  
 7875 PRESTO DRUGS INC  
 SHEENA INVESTMENT CO  
 7895 DICK S BAIT & TACKLE SHOP  
 7919 WHY-NOT FLOWERS  
 8000 AUTO WORKERS UAW LOCAL 1304  
 INTERNATIONAL UNION UNITED  
 INTERNTONAL UAW FEDERAL CR UN  
 JOB DEVELOPMENT & TRAINING  
 U A W SOLIDARITY HOUSE  
 UNION BUILDING CORPORATION  
 WALKER ROBERT  
 8005 SUN SERVICE CENTER  
 8016 JOHNSON, C J  
 8045 BARTHEL, U P  
 BODEEP, F  
 BURTON, ELNORA  
 COLE, CORA  
 DASKE, LOUISE  
 DEW, EDWARD J  
 FOSTER, Z  
 GASPAR, JOSEPH L  
 GLASSFORD, PHYLLIS  
 GRANT, DOROTHY  
 HODGES, MILTON K  
 HUGHES, LILLIAN  
 KING, M  
 LIBERTY, ROSE  
 LOWMAN, D  
 MODICH, WANDA  
 MOROUN NURSING HOME INC  
 NADEAU, R  
 PATTERSON, EDWARD H  
 PEDERSON, LORETTA  
 PINEX, GEORGIA  
 ROUSSON, AGNES  
 SHANNON, B  
 VILLARS, DORSEY

**E JEFFERSON AVE 1992 (Cont'd)**

8100 4TH EPISCOPAL DST RELIG CAMP  
ALDEN PARK MARKET  
ALDEN PARK TOWERS  
BEASON, MARCELL  
BENSON, JULIE  
DZIURMAN, K  
ENGLISH, JOHNNIE  
FROST ESQ  
GOZUN BENJAMIN V MD PC  
GREENWICKE COMMOPN LIMITEC  
GSP TRADING CO INCORPORAT  
HILD, A  
LEE SANG H MD  
LEE, S H  
LEWIS, LIZZIE M  
MARSHALL RUSS PHOTOGRAPHY  
MARSHALL, RUSS W  
MORGAN, PORSHIA  
PARKWYCKE TOWER APARTMENTS  
RAYMANT, PETE  
SIMS, JESSE  
WHYTE, SHERI  
WOODS, M  
ZIMMER, C J

E JEFFERSON AVE 1987

JEFFERSON E		
7700	ROBERT D CECIL	2 8248048
	GREGORY CZARNIK	#242714
	T LEFEVRE	#243206
	D I PEYRAT	1 8248567
	S SPRINGER	#3313503
	DANIEL TOEBES	#248272
7702	R BANKS CLARKE	8 243865
	WM W GENTRY JR	5 8221558
	ALLEN JAMES	5 3316081
	MRS EARL F MOSSNER	8244314
7704	TIMOTHY DUNN	#3319039
	M GAUTHIER	4 3313482
	H KROWICKI	3 8225151
	LLOYD O SECREST	4 8246245
	DR SHEILA SHEEHAN	8243583
	J SIMMONS	#244514
7706	M FITZGERALD	4 3316057
	R A HOLLANO	8248166
	GILQA ITCHON	5 3310842
	L JAMES	-8243837
	TIM LAWLEY	#3312826
	MICHAEL H MCLEO	1#8233023
	N SCHIEB	#3312760
7708	RAYMOND COLE	1#8232650
	M L SATWICZ	3 8244709
	MRS GEORGE SYLER	4 8243706
	CHARLES WEIKER	2 8248085
7710	JOHN P FLNCK	#248397
	JOHN O MILLER	5 8243740
	M P SHOOK	3 8226554
	KENNETH SWEETMAN	4 8249180
7711	NP	
7712	JEFFERY ABROMOWITZ	#241792
	STEPHEN M BALOUSEK	#3312848
	DONALD P BURROWS	8 3313642
	MELVIN DECKER	1#824607
	MICHAEL HARR	#241792
	OORIS KEMPF	5 8242958
	A S KIRKLANO	8249420
7714	E BART KLEIN	0 8232574
	M M KELLER	5 8244246
	BEN T MARX	9 8244132
	WARO PEARCE	4 8225709
7716	PAT ARBER	8228242
	P BRETT	0 8243839
	FRANCES CHAMBLISS	5 3311995
	ROBERT J FROST	8244120
	F J GIGANTE	8243672
	L S PETROSKY	9 8244642
	JOSEPH S WEINMAN	8234424
	ERMA B WHITE	8233735
7717	NP	
7718	JOANN CARLSON	1#8242075
	MARJORIE FOYT	8244310
	J D GULLEN	-8241606
	MICHAEL W REGULSKI	#3313247
	SAMUEL ROCKETT	#243883
	CLAYTON E STEVENS	4 8246218
7720	N GIBSON	-8215079
	K KERWIN	#221078
	MICHAEL MCCARTHY	5 8241845
	E B MCCLOSKEY	8244220
	M MORGENSTERN	5 8235864
	CHRISTOPHER REGGIO	3 8247834
	*RIVER TERR APTS	8244000
7722	RANDALL W BACHMAN	4 3311477
	M BENTON	#229731
	ROY L BRADEN	8244353
	ZORIE JOHNSON	8242955
	JAMES LUXMORE	5 3314545
	PATRICK MCGOVERN	#3317337
	LEONARDO P REAUME	8244224
7724	G DUNWORTH	8244543
	N M SMYTHE	#240577
7726	JOHN R COLLINS	#232008
	CARLA J JOHNSON	5 3317320
	MARY KELLY	4 8221679
	J E MAHER	#3315062
	M A MORANDI	8220558
	N VANGELSON	3 3314644
	CARL H WALKER	8244474
7728	A C CHASE	8244087
	E OAVIS	8244488
	REX FOSTER	8244418
	PAUL KRYSINSKI	#221707
	LISA MAES	-8225699
	JOHN ROBERT MARTIN	8243724
	M L STAPERFENNE	8248820
	J E WISNIEWSKI	8244327
7730	C A COBB	8244610
	BRUCE D MEKEACHZE	0 3313321
	JEAN A PEYRAT	8244628
7732	MRS HELEN FERGUSON	8243330
	JOHN W HARDY	1#3318947
	M IRENE METZGER	#244145
	E ROSKOPP	D 3315532
	I J ROSSA	8244359
7733*	THE PAGE CORP	8222341
7800*	RIVER TOWERS	8242244
	*473 UNITS	
	*YVONNE RACHAL MGR	8242244
	EDWARD ADAIR	2 8246173
	M C ADAMSON	3312926
	WILLIE LEE AGEE	4 8238381
	ERSKINE ALLEN	8229821
	BUD ALLGOOD	8228864
	C ANDERSON	3316977
	JOYCE C ANDERSON	2 8236361
	OTIS ANDERSON	5 8232649
	WILLA B ARMSTRONG	4 8247283
	G AUBE	2 8231201
	I A BAKER	5 3315638
	WILLIAM BAKER	D 8226832
	REV H D BANKS	7 8218086
	L E BANTA	8230857
	B J BARRINGTON	8233588
	G W BASKERVILLE	4 3312637
	SALLIE BAY	4 8234026
	CLEOPHIA L BEATTY	3 8228429
	JAMES BELL	8249226
	MENTIE BELL	8231072
	RAYMOND L BERTRAND	3314956
	CECIL H BEY	5 8227179
	J H BINGHAM	3314991
	GEORGE W BITTNER	5 8224052
	E I BLANO	4 3318342
	JOSEPH BLOOM	1 8222558
	H R BLOSSOM	5 8242318
	STANLEY BOKOTA JR	8237019
	JEFF A BOOKER	5 8236082
	JAMES BOWENS	4 8229789
	PHYLLIS BOWERMAN	#220463
	GEORGIE A BOYKIN	5 8224443
	P BRADY	3 3315872
	GEORGE BRANHAM	3310413
	L M BROAD	8220119
	VIRGIE BROOKS	9 3317038
	JEAN BROWN	8214671
	M BROWN	3 8221378
	SAOIE M BROWN	2 8243848
	MARGOT BULLIS	3 8236882
	CHARLES BURCH	-8223232
	LOUISE BURGHAROT	8 8216419
	ROBERT J BURNEY	3318121
	JOHN HENRY BURRELL	4 8234534

AS AUTHORIZED IN WRITING BY THE PUBLISHER.

E JEFFERSON AVE 1987

Table with columns: JEFFERSON E, PAGE 28U, DRESSER S, CROSS-INDEX DIRECTORY, 1987 DETROIT. Lists names and addresses for E Jefferson Ave in Detroit, 1987.

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E JEFFERSON AVE 1982

Table with columns for address, name, and phone number. Includes entries for 7225\*GRANO PATENT MECO, 7255\*BELLE ISLE STANORO, 7311\*ACAPULCO RESTAURNT, etc.

PAGE MAY NOT BE KEY PUNCHED ENTERED INTO A COMPUTER OR PHOTOCOPIED IN ANY MANNER WHATSOEVER EXCEPT AS AUTHORIZED IN WRITING BY THE PUBLISHER



## E JEFFERSON AVE 1982

7800	CHARLIE M SPURGEON	48214 3313875
	M S STANOFORO	4 8227785
	ESSIE L STEEN	4 8244792
	FAYE STEPHENSON	4 8232606
	WILLIAM O STEWART	9 8223294
	J SULLIVAN	9 8241875
	SARAH SWAN	4 3312105
	MARY SWATOWSKI	4 8236459
	EDNA TABORN	4 8222276
	JOHN C TATE SR	4 8232814
	ROBERT TATE	6 8234266
	H M TEAGAN	4 8240870
	C J TERHUNE	4 8247298
	J TERRIS	4 8248173
	LESLIE G THAYER	4 8240611
	E THEUT	4 8231315
	FRANK THOMAS	0 8230055
	A G THOMPSON	4 3317667
	DOORSEY THOMPSON	4 8220387
	EDDIE B THOMPSON	4 3311932
	HOLLAND M THOMPSON	7 8249572
	GIL TISOALE	8 8227192
	GEORGE W TITUS	4 8229429
	THOMAS E TONES	4 8225919
	M TOOHEY	7 8241251
	CHARLES N TROOER	4 8229526
	MARGARET M TROOER	8247592
	ROSE TURLEY	8 8225090
	H TURNER	4 8211728
	A C TWEODELL	4 8236852
	MARGARET A URBAN	4 8220317
	EMIL J VUNT	4 8215774
	GLAAYS WALLER	4 8248715
	WILMER J WARR	4 8217172
	MARIE M WASHINGTON	5 8220678
	HERSTON E WATERS	4 8249379
	LAMAR P WEBB	-8247202
	HILDEGARDE E WEISS	6 8237116
	BERT A T WELSH	4 8229313
	ALBERTA WEST	0 3311900
	HENRY C WHIOBY	0 8224129
	CHARLES WHITEHEAD	4 8235867
	FRANCES WILKERSON	0 3310035
	ALBERTA WILLIAMS	4 8249641
	ANDREW WILLIAMS	4 8234041
	GEORGE WILLIAMS	4 3311366
	HILLIS M WILLIAMS	0 8224566
	L A WILLIAMS	4 8235809
	REV L A WILLIAMS	0 8232504
	ROBERT L WILLIAMS	4 8227662
	WILBERT J WILLIAMS	57 3311189
	DAVID H WILLIAMSON	4 8210216
	M WILLMER	4 8249967
	F WOLFORD	4 3315401
	HELEN WOLKAN	4 8213246
	EDWARD WODOS	-8220480
	H F WOOTEN	4 8232548
	JEOIE WRIGHT	7 8249417
	JOHN WUSS	9 3310383
	JUANITA YANCEY	-8240114
	M A YOUNG	4 8229399
	E ZECH	4 8240896
7815	*OET MACOMB HOSPTL	8216000
	*OETR MACOMB HSPTL	8216000
	*OR PEORO S FRANCO	8216025
	*OR A HOORJ	8216000
	*OR JOHN H ROBERTS	8216000
	*OR E S SMYO	8216000
	*OR FLORANTE SUAN	8248520
	ROBERT K WHITELEY	8 8216000
7869	*MARTYS BAIT&TACKLE	3317373
7875	*NEUHOFF DRUG CO	8230150
	*SHEENA PARTY STR	3318055
7909	*THE LAQY	8242900
7919	*WHY-NOT FLOWERS	8220470
8000	*KAISER MOTORS FUNO	9265247
	*OCCUPATIONAL EMPLOY	8220050

E JEFFERSON AVE 1978

Table listing addresses and names for E Jefferson Ave in 1978. Columns include address ranges (e.g., 7736, 7800, 7815, 7869, 7875, 7900, 8000), names, and source codes. Includes a copyright notice at the bottom: 'COPYRIGHT INFORMATION ON THIS PAGE MAY NOT BE REPRODUCED WITHOUT THE WRITTEN PERMISSION OF BRESSELS DIRECTORY CO.'

### E JEFFERSON AVE 1972

6931*WGM TURF 2592223	7717 IRENE BEATTY 5679749
6945 BAR HELEN 2597223	7718*RIVER TERRACE APTS 5671302
7033*ELIAS BROS RESTRNT 2591360	*DONALD SHONK 5671302
7125 NP	MARJORIE FGVT 3 LC76415
***** 48214	N H 8ROOM 9 5682092
7201*WHITE TOWER RESTRN LD89507	A C CHASE 9 5685604
7225*BRONSANS OUGOUT BR 5681197	JAY W BEAROSLEE 9 5677775
7255*BELLE ISLE STANDRD 5674428	GENE M KYLE 9 5674724
7311*ACAPULCO RESTAURNT 5671115	JEAN A PEYRAT 1 5677914
7319 DR H E SCHAFERL 5673309	GEORGE H HOWARN 5671672
OR S KIRSCHENBAUM 5673300	7720*RIVER TERRACE APTS 5671302
7339*BRADYS KEYS KNTRY 5675858	*DONALD SHONK 5671302
*ALL PRG-EQUITIES -5672400	MABEL CCWE 8 LC70937
7349 DR LYNETH 5675528	J PAULUS LC75594
*OR RICHARD LUTZ 5675528	ESTHER MCCLDSKEY LC70937
7401*JEFFERSNESHER SERV 5689125	PAUL E DUFFY 1 5683687
7419*GRAND PATENT MEDCN 5680710	L J UHL 5 5671086
*GRAND SECURITY GRD 5684180	MIKE BROGAN 1 5681664
7425*MICH BEVERGE NEWS L081900	EUGENIE M THOMPSON 4 5682049
7433*JEFFERSON APTS	MRS E T PATERSON 8 5677179
*HARRY J OLIVER MGR	JAMES BISING 1 5672708
FRANK M KUBOTA LD83078	PAUL B HYNES 1 5683687
J ONEILL 9 5671216	E E MCCCY 5 5674881
EVARISTO ROORIGUEZ 1 5672142	7721 STANLEY TOBIN 5683136
7435*JEFFERSON APTS	7722*RIVER TERRACE APTS 5671302
*HARRY J OLIVER MGR	*DONALD SHONK 5671302
7437*PEKIN PAVILION RES L089466	LEONARD P REAUME LC71523
*PEKIN PAVILN RSTRT L082768	CHARLES G OAKMAN LC73336
7441 NP	C FINE LC77182
7600*NAVAL RESERVE RECT 5677155	HAROLD M FORSYTH 7 5672366
*US NAVY DEPT 5678540	M G W THACKE 7 5676975
7601*ISLE BELLE AWNG CO 5672293	CHARLOTTE HAYOEN 4 5674133
*BELLE ISLE AWNING 5672293	ALMA B PATTON 5676036
7607*DR N E GOTTSCHAL 5675006	ROY L ERADEN 5683246
7613 RDSE HAMMERSCHMIDT 5672144	THOMAS J STRLIND 5672058
7615*NEW CHERRY BAR 5673582	7724*RIVER TERRACE APTS 5671302
7625*M R BECHARO MILNRY L072524	*DONALD SHONK 5671302
7627*J T LYNCH SEC GRD 5677010	G OUNWORTH 0 5675247
7633*ANCHOR BAR L078460	G OWEN BUTLER 0 5672700
7635*HOSPITAL 8LOOD SER 5675535	7725*DR R C LEACOCK 5672700
7639 NP	7726*RIVER TERRACE APTS 5671302
7645*ZUKINS RID SHACK 5677893	*DONALD SHONK 5671302
7700*RIVER TERRACE APTS 5671302	BEN JOHNSON LC8294
*DONALD SHONK 5671302	JOHN E PITTMAN 1 LC82676
J L MCCARREN 0 L072916	FRANCES L BARNES 5 5683139
I W WEBBER 5 L070112	CLIFFORD PREVCT 5683073
MRS W S STRINGHAM L072077	MAURINE L WALORIPS 5675030
RALPH G BOWEN L072916	TONY G HENDRIX 0 5680973
M L JONES 5672036	F I BEEBE 1 5681609
M SAGE 56880706	7728*RIVER TERRACE APTS 5671302
O LUISE BORDEN -567054	*DONALD SHONK 5671302
J KUBAN 5684022	BERNARD J GREWE LC8218
7701 ROGER 8 PRICE 0 5674359	M L STAPEFFENNE 8 LC78830
7702*RIVER TERRACE APTS 5671302	STEWART R BOYER L081226
*DONALD SHONK 5671302	ROBERT O ADAMS LC76716
MRS E H WENTWORTH L079038	JAMES B RUSSELL 6 5682178
MRS EARL F MOSSNER LD89922	REX FOSTER 5 5674732
DON R HALL 4 5671648	WILLIAM L MLTTCN 5675487
R BANKS CLARKE 6 5675006	CHARLES J BURKE 6 5677615
CHARLES HEINBERG 0 5672123	THOS C STRLING SR 5672058
DAVID C ETOWSKI 5671723	J E WISNIEWSKI 3 5675904
GARY BIEDERMAN 7 5675966	L HUBEL 0 5676281
7704*RIVER TERRACE APTS 5671302	JOHN ROBERT MARTIN 5673551
*DONALD SHONK 5671302	7730*RIVER TERRACE APTS 5671302
MRS AUG DEGENER L071408	*DONALD SHONK 5671302
M L BYRNE 6 L072617	EDWARD J GARVEY LC77580
E SZAPPANYOS 3 5671275	C A COBB BL79183
GEORGE P ANDERSON 0 5679072	GERTRUDE HEALY 1 5682403
C BARTON 0 5671206	MRS H B SHAFLEY 5684905
CARL H WALKER 5677528	LARRY J BRACY 0 5676762
C L SCHOOER SR 0 5675779	7732*RIVER TERRACE APTS 5671302
JACK E SHARPE 1 5671474	*DONALD SHONK 5671302
OR SHEILA SHEEHAN 5683162	MRS HELEN FERGUSON 9 LC73133
MAURICE J LEBRECK 5681064	4 5680609
7705*JOHN E BOKINSCO 5670910	JAMES C PIFER 5683898
*WORLD W YCHTSHP 5670910	FRED E WALTON 3 5674226
7706*RIVER TERRACE APTS 5671302	BARBARA HAFELI 5 5672725
*DONALD SHONK 5671302	L G LENHARDT 5 5672024
MRS V GORMELY 7 L077479	FRANK S MACK 5675562
R A HOLLAND L078074	R E HEITZER 3 5677386
W A BOYCE L079037	O J TROBLEY 9 5670709
THOMAS GUTHRIE 9 5677746	7800*RIVER TOWER APTS 5671111
ALAN RAUCHER 0 5680823	*RIVER TOWERS INC 5680757
ARTHUR N GAUVIN JR 0 5677307	7815*DR R E SCORBERG BTR56200
ROBERT E OERBY 1 5675649	*DR JAS J LIGHTBODY VA16000
G GUERTIN 5676059	*DR J G GRAHAM JR VA16000
7708*RIVER TERRACE APTS 5671302	*DR R W REPPEN-AGEN VA16000
*DONALD SHONK 5671302	*DR R E REINHARD 5 VA16000
MRS GEORGE SYLER 6 5677097	*JENNINGS HEHL HSP VA16000
WILLIAM BELLUOMO 0 5674399	*DR HENRY A CUNLAP VA16000
M SCULLY 5681530	*DR GEORGE L WALKER VA16000
B BAKER 5681530	*DR DONALD C WINAKS VA16000
JAMES DISSER 5675082	*DR JOHANN SCHMIDT VA16000
M B ALFORD 5680317	*DR C F SCHRDEER VA16000
ELLSWORTH C DWEN 9 5679862	*DR K F SCHRDEER VA16000
7710*RIVER TERRACE APTS 5671302	*DR A L STEINBACH VA16000
*DONALD SHONK 5671302	*DR R S BODDERBERG VA16000
J VANGILOER LD79839	DR E S SMYC VA16000
MARGORIE J DARRACH LD73441	*DR E C ANDERSON VA16000
FRANK H KEMR LD82014	*DR JOHN M HARTZELL VA16000
C C SHELTON 6 LD73859	7850*ISLAND W ACOLSCNT LC71100
I J ROSSA L084365	7875*NEUHOFF DRUG CO VA30150
WALTER J ANGER 9 5672789	7900 NP
HERBERT W GREENIA 9 5675631	7903*THE MAY SHOP VA3121S
RDD ROSE 1 5683577	7909*SURFSIOE CKTL LNGE 8222628
S MILLER HAGEMAN 0 5675656	7919 ANNE LOU ALGER 5 VA31400
MARVIN E SCHWARZ 9 5670525	PAUL A DEPATIS VA31400
S ASHENFELTER 0 5673519	*TAEPKES FLOWERS VA31400
E E LLOYD 9 5689952	JULIA JERSKE 1 VA31400
7712*RIVER TERRACE APTS 5671302	8000*UNITED AUTO WCKRS-9265321
*DONALD SHONK 5671302	*UNITED AUTO WCKRS-9265485
STEWART E MCCLAREN LD76673	*UNITED AUTO WCKRS-9265265
AILEEN M CHUGH LD76333	*UNITED AUTO WCKRS-9265400
IRENE M MCHUGH LD76333	*UNITED AUTO WCKRS-9265571
AUDREY PDRETT 4 5681140	*UNITED AUTO WCKRS-9265237
SEVERT REQUE 8 5674398	*UNITED AUTO WCKRS 9265000
O H MCEAN 8 5673088	*UNITED AUTO WCKRS 9265431
O H MCEAN 7 5674563	*UNITED AUTO WCKRS 9265277
ODROTHY HAOLEY 7 5681692	*UNITED AUTO WCKRS 9265551
S C HADLEY 0 5681692	*UNITED AUTO WCKRS 9265287
H M SCHICK 0 5671302	*UNITED AUTO WCKRS 9265331
M R SEGER 8 5683087	*UNITED AUTO WCKRS 926574
JOHN O BLDOCK 1 5676596	*UNITED AUTO WCKRS 9265548
7714*RIVER TERRACE APTS 5671302	*UNITED AUTO WCKRS 9265361
*DONALD SHONK 5671302	*UNITED AUTO WCKRS 9265391
S VANDYKE 0 5673128	*UNITED AUTO WCKRS 9265461
BEN T MARX 5670258	*UNITED AUTO WCKRS 9265311
O BIGGS 0 5673128	*UNITED AUTO WCKRS 9265501
7716*RIVER TERRACE APTS 5671302	*UN AUTO WCKRS HSE 9265421
*DONALD SHONK 5671302	*UNITED AUTO WCKRS 9265216
LEE A FORDN LD82713	*UNITED AUTO WCKRS 9265418
F J GIGANTE 1 5672521	*UNITED AUTO WCKRS 9265411
ARMIN M WOLFF 4 5672215	*JORDAN ROSSEN ATTY 9265216
WAYNE F PAYNE 1 5681619	*SEMCAP 56265000
M W BUTDN 6 5678185	*UNITED AUTO WCKRS-9265335
S U RACHUBKA 3 5682360	*UNITED AUTO WCKRS-9265345
ROBERT J FROST 5670790	*UNITED AUTO WCKRS-9265291
JOHN M BURKE 5676739	*UNITED AUTO WCKRS-9265221
KATHLEEN PHILLIPS 5683612	*UNITED AUTO WCKRS-9265171
LEE I BODULPH 1 5679444	*UNITED AUTO WCKRS-9265261
WALTER L PIERRE JR 5672578	*UNITED AUTO WCKRS-9265231
PETER GIFFELS 0 5684265	*UNITED AUTO WCKRS-9265421

E JEFFERSON AVE 1967

Table listing addresses and names along E Jefferson Ave in 1967. Columns include address, name, phone number, and source code.

E JEFFERSON AVE 1962

7045 DR ROBT L HATCHER	LO73597	MARJORIE DARRACH	LO73441
7051*FRED SANDERS STORE	5684077	LOIS C SHELTON L	LO73899
*****ZONE 14*****			
7200	7200- 7699 TZ 397	S MILLER HAGEMAN	LO75656
7201*WHITE TOWER RESTRN	NP	BEATRICE CAVANAGH	LO75245
7225*BROS NANS DG OUT BR-	LO89507	M K BAUSLAUGH	LO73779
7245*DAY DRUG CO	LO89647	JOHN H WELCH	LO80339
7257	NP	J VANGILDER	LO79839
7267*SGM CONEY ISL REST-	5689288	LAWR WAGNER	LO81880
7311 INDIAN LODGE	LO78935	JOHN W WEBSTER	LO81880
7319*ALBERT BLUME	LO72490	FRANK H KEMP	LO82624
7325*ROADWAY TIRE CO	LO72444	IRENE ROSSA	LO84365
*K J GRANT	LO72444	HELEN M SZYKULA	-5681450
7339*METRO LIFE INS CO	LO75965	CHARLES B ALDRICH	-5684323
7355*FARMER RESTRNT INC	LO82454	DR JOHANN SCHMIDT	LO70882
7401*EDDIE MEYER SERV	LO81623	ROBT D DIETERLE	LO70535
7419*A G DERATANY	LO74200	JOSEPH FINE	-LO73705
*JUMBO JACKS RSTRNT	LO74200	AILEEN M MCHUGH	-LO76333
*ALFRD ELC GRL CLNR-	5676969	IRENE M MCHUGH	-LO76333
7425*WILLIAM J CUSICK	LO81900	STEWART E MCLAREN	LO76673
*MICH BEVERGE NEWS	LO81900	ARTHUR W DIAL	-5671142
7433 JOHN A RECKNAGEL	LO77491	*L C BAL FOUR CO	-5671142
JOHN W MOISE	LO84486	ROBERT B MILL	LO82786
FRANK M KUBOTA	LO83078	ROY L BRADEN	LO83246
MICHAEL F STARLING	-5678749	ARTHUR H ONEIL	-5682205
ARTUR W BIRSE	-5683905	JANE SHOEMAKER	LO77328
7435*KNAPP STUDIO	-LO76900	BEN T MARX	LO70258
7437*PEKIN PAVILION RES	LO89466	ROBERT D RANDALL	LO71129
*PEKIN PAVILN RSTNT	LO82768	JOHN M BURKE MGR	LO76539
7445*E LINDEN FLWR	LO79400	JOHN M BURKE	LO76539
*ETHEL LINDON	LO79400	ROBERT B CONDON	LO77698
7600*US GOV MARINE CRPS	LO70302	ALFRED ROSENBERG	5670790
*US RES TRAIN UNIT	LO73827	ROBERT J FROST	5670790
*US GOV SUB CERO	LO74444	W LEE ALEXANDER	LO80772
*MICH NAVAL FORCE	LO74711	HANS P STIEGLER	-LO82691
*USS AMHERST	LO78120	IRENE BEATTY	-LO79749
*US GOV SUB CERO	LO78540	7718*VERA C BROWN MGR	LO82613
*USN RES TRAIN CNTR-	LO87540	SARAH A MCGINNESS	LO70669
*US NAVY INTELLGNCE	5673334	MARJORIE FOYT	-LO76415
*USN RES RECRUITING	5677155	GEORGE H HOWARN	-5671672
7601*ISLE BELLE AWN CO	LO72293	J GROVER SHEA	-5672329
*BELLE ISLE AWNING	LO72293	SAMUEL D COBURN	LO81923
7607*DR N D GOTSCHALL	LO74749	DOROTHY LEIPPRANDT	LO82065
7615*VILLA LOUNGE	LO89403	JAMES B RUSSELL	LO82178
7625*MABLE R BECHARD	LO72524	VERA C BROWN	5682313
7627 JAMES A STREET	LO76256	7720*WMS C DAVIS	LO80227
*MICH BUDGET ASSCTS-	LO83848	*APT 19-	
*ACTION AGCY INC	LO77900	ESTHER MCCLOSKEY	LO70937
*ISLAND AGCY INC	-LO77900	FLORENCE CHRISTMAN	LO74589
7629*PUBLIC ADDRESS SYS	LO74700	J PAULUS	LO75594
*N D REISS	LO74700	DR D CAMPBELL	LO76245
*REISS PBLC ADDRSS	LO74700	MRS E L CLIFFORD	LO76617
7633*ANCHOR BAR	LO78460	WINIFRED M KROTO	LO76557
7635*HOSPITAL BLOOD SER	5675535	ROBERT M SMITH	LO77177
7639*GGG GROCERY CO	LO73410	SAMUEL PHIL	LO78393
*PRES TO LOGS	LO73413	WILLIAM C DAVIS	LO80227
7645*TODDLE HOUSE	LO89331	JOSEPHINE W GRAY	LO82138
7700*HARRY LINK MGR	LO74056	ALICE A HODGSON	-5675042
IRMA W WEBBER	LO70112	7721 STANLEY TOBIN	-5683136
MRS J S STRINGHAM	LO72777	7722*CELIA FINE MGR	LO77182
RALPH G BOWEN	LO72916	*APT 28	
FLORENCE CRAMPTON	LO73765	LEONARD P REAUME	LO71523
M J FOLK	LO76883	GEO D BRIGHAM	LO71775
URSULA M FALCK	LO80524	ELIZABETH PUTNAM	LO72532
HARRY LINK	LO74056	CHARLES G OAKMAN	LO73336
MARGERY H LINK	5674139	ALMA B PATTON	LO76036
MARY E HEBERT	LO81305	CELIA FINE	LO77182
JOHN K PETERS	LO81516	THRZA M ARBURY	LO81656
JERRY OSS	LO81567	DR GRANT J WITHEY	LO82526
7702*MRS R B CLARK MGR	LO75048	DR WM A FEINER	LO82526
*APT 18		JAMES C PIFER	LO83898
MRS J BEAUDREAU	LO81882	L R HARRINGTON	LO84097
DOROTHEA CROSSMAN	LO70959	A A STEINBAUER	LO71751
MRS R B CLARKE	LO75048	LAURA E HILLER	LO80308
PHYLLIS PHILLIPS	LO75221	7725 LORENZ J LIVIGNI	LO70385
MRS E H WENTWORTH	LO79038	7726*ROBERT HUTTON MGR	LO75240
EARL F MOSSNER	LO89922	*APT 14	
RICHARD E STRAW	LO80898	M W HONERLAW	LO71493
DR ERVIN WOLF	-5678922	BEATRICE A KYES	LO74281
7704*DUMORE	LO72496	ROBT P HUTTON	LO75240
*DORA TAYLOR MGR		HELEN L PEPPET	LO75255
*APT 26		MRS F G KUMKE	LO77687
IVAH GRZYBOWSKI	LO71287	DR J E PITTMAN	LO82676
MRS A DEGENER	LO71408	BEN JOHNSON	LO84294
DORA TAYLOR	LO72496	DELLA ISOM	-5680885
MARY L BYRNE	LO72617	JOAN GOERGEN	-5680085
ROY C MARSHALL	LO73729	M W WELCH	-5683974
BERTHA C PFEIFFER	LO74591	7728*E W WALTON MGR	LO73583
AMOS J MILLER	LO79674	GALE HITCHCOCK	LO71075
MARIAN ATWELL	LO80641	THOS C STIRLING SR	LO72086
M M STOLL	LO83498	WM L MUTTON	LO75487
CARL H WALKER	-5677528	ROBERT D ADAMS	LO76716
DR IRENE SHEEHAN	-5683162	J M FRIEDLANDER	LO77694
DR SHEILA SHEEHAN	-5683162	MARIE STAPERFENNE	LO78830
7705 JOHN E BODKIN	LO73131	E W WALTON	LO78933
7706*ROBERT J FROST MGR	LO70790	FRANKLIN SEXTON JR-	5671039
*APT 19		M FISCHER-WILLIAMS-	5671714
D HANSLOW	LO76118	ADELAIDE PLATTE	LO80986
DON T SMITH	LO76788	STEWART R BOYER	LO81226
HARRY LAWR SMITH	LO77091	BERNARD A GREWE	LO82218
MRS V GORMELY	LO77479	7730 HAROLD OTIS	LO73610
R A HOLLAND	LO78674	DR N T MASTERNACKI	LO75565
W A BOYCE	LO79037	EDW J GARVEY	LO77580
L G OLSON JR	LO80061	KENNETH CRITTENDEN	LO78029
EDWIN M PRATT	LO82631	MRS W W BURRELL	LO81866
7708*RUSSELL PACKER MGR	LO71649	7732*F R SOLMES MGR	LO77085
*APT 22		*APT 16	
F G WALLIS	LO70674	JOSEF E MCNAMARA	LO71035
RUSSELL L PACKARD	LO71649	ARMEN M WOLFF	LO72215
E Y BOYCE	LO71906	MRS HELEN FERGUSON	LO73133
DAYTON F BURDENO	LO73631	FRANK S MACK	LO75562
MARGARET WOODCOCK	-5672391	*DR J P OLDANI	LO78090
CARMEN E CAMPBELL	LO80187	F J RESEL	LO80648
REV G DAHL	LO80199	CLIFFORD PREVOST	LO83073
M A CAMERON	LO80317	EGER PALMER	LO83789
KATHLEEN M CLARK	LO80719	GUSTAV KLEINER	LO84125
DONALD W POLLARD	LO81132	*DR G RAMSTRUM	-LO84932
ARTHUR N GAUVIN	LO82137	GEORGE J BERTELS	LO84438
HALSEY S CAREY	LO82137	7737	NP
LEE A FORDON	LO82713	7750 BETTY MATOFF	LO82025
PAULA SWEENEY	-LO83154	MATOFF BETTY	LO82025
7710*IRENE ROSSA MGR	LO84365	*RIVERSIDE FLORISTS	LO82025
*APT 24		7770 SHIRLEY J BOERS	LO74273
I L TOMASEL	-LO71680	7815*DR HENRY T HUNSON	VA16000
		*JENNINGS MEM HOSP	VA16000
		DR NORMAN D NIGRO	VA16000
		*DR R B SODERBERG	VA16000
		*DR R A JOHNSON	VA16000

## E JEFFERSON AVE 1962

*DR J G GRAHAM JR	VA16000
*DR JOHN HARTZELL	VA16000
*DR E S SMYD	VA16000
*DR D C WINANS	VA16000
*DR HENRY A DUNLAP	VA16000
*DR DOUGLAS DONALD	VA16000
DR E K CARMICHAEL	VA16000
*DR GEORGE L WALKER	VA16000
*DR S W WALLACE	VA16000
*DR R W REPPENHAGEN	VA16000
*DR C F SCHROEDER	VA16000
*DR R E WUNSCH	VA16000
7850 DR ARTHUR HOLSTEIN	L077100
*ST CLAIR HOSP	L077100
7865	NP
7869*INDN VILG CLNR INC	VA27217
7875*NEUHOFF DRUG CO	VA30150
7891*DE RANIERI STUDIOS-	8214787
7895*BULLOCK MARINE CO	VA19522
7900*CHRYSLER BOAT HSE	5681379
7903*THE MAY SHOP	VA31215
7909	NP
7919 PAUL A DEPATIS	VA31400
*TAEPKES FLOWERS	VA31400
*FLORIST SCHOOL	VA31401
*SOULES FLORIST S	VA31401
7930*HEALTH INSTITUTE	L084000
8000*METRO RESRCH BUR	L082252
*UNITED AUTO WKRS	L084000
*UN AUTO WRKRS UAW	L084000
*UNITED AUTO WRKR 1-	L084000
8005*DUNCANS SERV	VA28820
8045*DR EDWIN J NEILL	VA30662
*DR A A ULMER	VA31000
*DR A R HUMMEL	VA31000
*DR E M OETTING	VA31100
*DR A J W YATES	VA31244
*INDIAN VLGE PHARM	VA23533
DR D J BADALAMENTI	VA26848
CARL GROBSOREAN	VA27275
8100*ALDEN PK MANOR APT	L077500
*WILLIAMS ROBB MGR	

E JEFFERSON AVE 1957

	KATHLEEN M CLARK	LO8-0719
	DONALD W POLLARD	LO8-1132
	MABEL C TRUE	LO7-3772
	CARL H WALKER	LO7-4891
	ARTHUR N GAUVIN	LO8-2837
	LEE A FORDON	LO8-2713
7710	MALBEA M S CALEY	LO8-6137
	JOHN H MELCH	LO7-8039
	MARJORIE DABBACH	LO7-2441
	PAUL JOHNSON	LO7-1429
	OR C G KILLINS	LO7-1159
	FORDA W ARBURY	LO7-2525
	ALICE FARR	LO7-1777
	DR YANDEN BERG JR	LO8-1020
	BEATRICE CAVANAGH	LO7-2245
	LANA WAGNER	LO7-1890
	FRANK H KEMP	LO8-2624
	J VANGILOER	LO7-9839
7711	M K BAUSLAUGH	LO7-7379
7712	MAFALOA MAYNARO	LO7-3815
	W F GOLOEN	LO7-6863
	ROBT O CIETERLE	LO7-4204
	JOHN A BENSON	LO7-4204
	FRANC G CHRISTMAN	LO7-4289
	ROY L BRADEN	LO8-2786
	ROBERT B MILL	LO8-2786
	ANGUS D MACARTHUR	LO7-0227
7714	STANLEY L REEO	LO7-6673
	BEN T MARX	LO7-0256
7716	DAVID P CONNERY	LO7-4782
	JOHN M BURKE	LO7-3177
	W L OINNIN	LO7-7024
	DONALD SLUTZ	LO7-7699
	PAUL ZISSIS	LO7-7379
	LORENE W MCGINTY	LO7-0693
	LORENE W BABCDCK	LO7-0693
	ROBERT D RIVAL	LO7-1179
	ORVILLE E GIBBS	LO8-0053
	W LEE ALEXANDER	LO8-0772
	HAROLD H ARMSTRONG	LO7-4230
	MAURINE L WALORIP	LO8-2518
7717	JAS C MURPHY	LO8-2927
	JEANETTE HEUREUX	LO7-0662
	VIVIAN MITCHEL	LO8-3398
7718	JEANETTE A SMITH	LO8-3398
	MRS EDWARD W PFALZ	LO8-4080
	GERTRUDE E FOYT	LO7-4415
	SARAH A MCGINNESS	LO7-0669
	A HANOELSMAN	LO7-3122
	DR PAUL S CROSSBY	LO8-2190
	ALICE GUYETTE	LO8-2813
	VERA C BROWN	LO8-2813
	MARY R COPLAND	LO8-4176
7720	ESTHER HANOELSMAN	LO7-1122
	RICHARD S BEAUDET	LO8-4084
	MRS E L CLIFFORD	LO7-6617
	ROBERT W SMITH	LO7-5594
	J PAULUS	LO7-5594
	ESTHER MCCLOSKEY	LO7-0957
	MAROLO P PATTERSON	LO7-2442
	FRED P SISSON	LO7-3830
	B W MAXWELL	LO7-3830
7721	ALLAN C GRUSCHOH	LO7-7617
7722	ALEXANDRIA M OAVIS	LO7-7617
	L R HARRINGTON	LO8-4097
	ALMA B PATTON	LO7-6036
	HARRY G SMITH	LO7-7961
	R D HARTNELL	LO7-3730
	CHARLES H MOONEY	LO7-3730
	LEONARD P REAUME	LO7-1775
	GEO O BRIGHAM	LO7-1775
	ORA BOVILL PUTNAM	LO7-2532
	ELIZABETH PUTNAM	LO7-2532
	WILLIAM J MASSEY	LO7-5216
	HAROLD G LOOSE	LO7-5216
	SIO L ERWIN	LO7-5216
7724	COLIN H MCLEOD	LO8-3688
	A A STEINBAUER	LO7-1751
	LAURA E HILLER	LO8-0308
7725	LORENZ L LIVIGNI	LO7-4294
7726	BEN JOHNSON	LO8-4294
	MRS F G KUNKE	LO7-7687
	C V BURNETT	LO7-0578
	RAYMOND F TERNES	LO8-0578
	BEATRICE A KYES	LO7-4281
	ROBT HUTTON	LO7-4240
	HELEN L PEPPET	LO7-5255
	ARTHUR CLEMENTS	LO8-2550
	OR J PITTMAN	LO8-2676
	RONALD HUIZENGA	LO8-3379
	H L PETERSEN	LO8-3379
7728	ROBERT O ADAMS	LO7-6716
	E W WALTON	LO7-8830
	M L STAPERFENNE	LO7-8830
	WM L MUTTON	LO7-9487
	WILLIAM L HARVEY	LO7-9487
	THOS C STIRLING SR	LO7-3008
	A F CHURCHMAN	LO7-3008
	FRED O LORIMER	LO7-9493
	ADELAIDE PLATTE	LO8-0986
	JDHN J PLATTE	LO8-0986
	ELIZABETH K FRASER	LO7-4557
	RICHARD E BROWN	LO7-4557
7730	BERNARD A GREWE	LO8-2218
	EDW J GARVEY	LO7-7580
	DR H J PASTERNAKI	LO7-5392
	CHARLES P SLATER	LO7-5392
	MORTON E MUNK	LO8-0893
7732	WALTER W BURRELL	LO7-7055
	OR F R SOLMES	LO7-7055
	H J MCAULEY	LO7-7224
	JOHN F OLDANI MO	LO7-6090
	FRANK S MACK	LO7-5432
	K J MURLEY	LO7-5432
	ARMIN M WOLFF	LO7-5432
	MRS HELEN FERGUSON	LO7-5432
	JOHN PRICE	LO7-6042
	R H NORMAN	LO7-0488
	PIERCE WRIGHT	LO8-0648
	F J HESEL	LO8-0648
7750	J E MCNAMARA	LO8-2025
7815	*RIVERSIDE FLORISTS	VA1-6000
	*DR G CHITTENDEN	VA1-6000
	*DR JOHN HARTZELL	VA1-6000
	*DR S W WALLACE	VA1-6000
	*DR R REPPENHAGEN	VA1-6000
	*DR THOMAS SAGE	VA1-6000
	*DR J S GRAHAM JR	VA1-6000
	*DR HENRY T HUNSON	VA1-6000
	*DR DOUGLAS DONALD	VA1-6000
	*DR S SHAY	VA1-6000
	*DR R E WUNSCH	VA1-6000
	*DR O C WINANS	VA1-6000
	*DR F SCHROEER	VA1-6000
	*DR C F BRUNK	VA1-6000
	*JENNINGS MEM HOSP	VA1-6000
	*DR A JOHNSON	VA1-6000
	*DR RAYMOND BAER	VA1-6000
7833	LILLIAN H STROMSKY	LO7-5717
7850	ST CLAIR HOSP	LO7-1100
	*DR J F WARNER	LO7-1100
7865	TODDLE HOUSE	VA3-9840
7869	*IND VLG CLNR INC	VA3-0150
7873	*NEUHOF DRUF CO	VA3-0150
7895	*BROWN WHOLE PARTS	VA3-0600
	*AUTO WHOLESL PARTS	VA3-0600
7900	*CHRYSLER CORPORATN	LO1-1379
7903	*MAY SHOP	VA3-1215
7909	*FODY SHEPHERDS CTR	VA3-1137
	*FODY SHEPHEROS BAR	VA3-1137
	*VANDYKE CLUB	VA3-1155
7919	*E SHEPHEROS BAR	VA3-1155
	*TAPES FLOWERS	VA3-1400
	*PAUL A OEPATIS	VA3-1400
	*FLORIST SCHOOL	VA3-1401
	*SOULES FLORIST S	VA3-1401
7930	*HEALTH INSTITUTE	LO8-4000
8000	*UN AUTO WRKRS UAW	LO8-4000
	*UNITED AUTO WRKRS	LO8-4000

## E JEFFERSON AVE 1954

**JEFFERSON AV E—Contd**  
**Apartments—Contd**  
 104 Kluge M  
 201 Paulus J  
 202 Vacant  
 203 Grushow A  
 204 Weedon Alice LO 7-5860  
 301 Cox Erma  
 302 Sisson F  
 303 Herrmeyer Chas F  
 304 Steele Chas H LO 7-4406  
 7721 Davis Alexandria Mrs LO 7-7607  
 7722 **River Terrace Apts**  
 101 Wilson Walter E LO 7-0992  
 102 Alris Thos F LO 7-3589  
 103 Hartnell R  
 104 Pival J  
 201 Massey Wm J LO 7-9653  
 202 Putman E  
 203 Herlihy Gerald P LO 7-3626  
 204 Brigham Geo D LO 7-1775  
 301 Roame Leonard P LO 7-1523  
 302 Smith Harry G LO 7-6244  
 303 Kennedy F J  
 304 Patton Alma B LO 7-6036  
 7724 **Apartments**  
 T1 Rockwood Ethel M Mrs LO 7-8190  
 T2 Stienbaur A A  
 7726 **Apartments**  
 101 Pamplin Stanley C LO 7-6014  
 102 Kumke Elsa S Mrs LO 7-7687  
 103 O'Brien P H  
 104 Dahmer Edw A  
 201 Ternes Eva C LO 8-0578  
 202 Brenkert Wayne D  
 203 Little F Jean LO 8-0138  
 204 Peppet Helen L LO 7-5255  
 301 Garceau Frank J LO 8-2362  
 302 Hutton Robt P LO 7-5240  
 303 Harvey Wm L LO 7-1925  
 304 Burnett Chauncey V LO 7-0540  
 7728 **Apartments**  
 101 Zandler Sannie B LO 7-7605  
 102 Meldrum Bernard J LO 7-2665  
 103 Platte Adelaide L Mrs LO 8-0986  
 104 Adams Robt D LO 7-6716  
 201 Stirling Thos C LO 7-2086  
 202 Walton E W LO 7-3583  
 203 Brown Richd L LO 7-5182  
 204 Staperfenne N  
 301 Fraser Eliz M LO 7-4557  
 302 Lorimer Fred D  
 303 Harvey Wm L LO 7-4925  
 304 Mutton W L  
 7730 **River Terrace Apts**  
 T1 Jay Robt J LO 8-3314  
 T2 Pasternacki Norbert T LO 7-5365  
 T3 Garvey Edw J LO 7-7580  
 T4 Slater Chas P LO 7-9355  
 T5 Burrell W  
 7732 **Apartments**  
 101 McCarren Jane L LO 7-8748  
 102 Solmes Fred R LO 7-7085  
 103 Resel F  
 104 Graff Willard I LO 7-5939  
 201 McAuley Harold F LO 7-7224  
 202 Aldam Juletta B LO 7-8090  
 203 Mach Frank S LO 7-5562  
 204 Ferguson D  
 301 Price John T LO 7-9042  
 302 Grewe Bernard A LO 8-2218  
 303 Wright Pierce E LO 8-0488  
 304 Norman Roderick H LO 7-9854  
 7750 Riverside Florists LO 8-1730  
**Seyburn av begins**  
 7815 Jennings Memorial Hospital VA 1-6000  
 Gray Willis J director VA 1-6000  
 Carmichael Edw K phys VA 1-6000  
 Chittenden Geo E phys VA 1-6000  
 Donald Douglas phys VA 1-6000  
 Dunlap Henry A phys VA 1-6000  
 Graham John G Jr phys VA 1-6000  
 Baer Raymond B phys VA 1-6000  
 Hartzell John B phys VA 1-6000  
 Johnson Ralph A phys VA 1-6000  
 Kroll Harvey V phys VA 1-6000  
 Munson Henry T E phys VA 1-6000  
 Sage Thos phys VA 1-6000  
 Schroeder Carlisle F phys VA 1-6000  
 Smvd Edwin S dentist VA 1-6000  
 Wallace S Willard phys VA 1-6000  
 Winans Donald C dentist VA 1-6000  
 Wunsch Richd E phys VA 1-6000  
 Reppenbagen Richd W dentist VA 1-6000  
 7835 Vacant  
 7850 Detroit Medical Hospital LO 7-7100  
 7865 Toddle House (br) restr VA 3-9840  
 7869 Sanders Cleaning Co (br) clo clns VA 2-8911  
 7875-77 Neuhoff Inc drugs VA 3-0150  
 7891-95 Automobile Wholesale Parts Corp VA 3-0600  
 7900 McKernan John  
 Chrysler Corp (conference of Business Management) LO 7-9140  
 7903 May Shoppe The womens clo VA 3-1215  
 7909 VanDyke Club The VA 3-1155  
 7919 Taepkes Flowers florists VA 3-1400  
 7930 UAW-CIO health clinic LO 8-4000  
**VanDyke av begins**  
 8000 United Auto Workers CIO LO 8-4000  
 8005 Duncan Service gas sta  
 8025 Toddle House (br) restr VA 3-9851  
 8045 Indian Village Medical bldg VA 3-1101  
 Indian Village Pharmacy VA 2-3533



E JEFFERSON AVE 1940

7025 Warren Jewelry Co	JEFFERSON AV E—
7027 Warren Aug E	Wallace S Willard
7029 Carolan's Gust P	White Leslie F
7031 Carolan's Gust P	Winters Donald C
7033 Jantovich Nick confr	Winters Donald C
7035 Jantovich Nick	Linden Ethel florist
7037 Heisey Wilfred J	Adams Adeline Mrs
7039 Brauchand Della	Werner Geo F
7041 Christian Science	Woboy Town Club
Reading Room	7805 Tabbie House (br)
Lindquist Hugo	rest
Lindquist Betty Mrs	7875-77 Neuhoff Drug Co
beauty shop	(br)
7045 Hatcher Robt L	Neuhoff Drug Co
dentist	(office)
7049-51 Sanders Fred	7887 Flower Centre florists
(br) confrs	7895 Jefferson VanDike
Belle Isle Bridge begins	Garage filling sta
E Grand Blvd begins	Shepherd av ends
Gabriel Richard Park	7900 Crest Fernon B
so cor Det St Ry (Belle	Chrysler Corp (Con-
Island Coach Sta)	ference of Business
7209 Stephan Max beer	Management
garden	7903 Sanders Tri-Cleaning
7211 Stephan Max	(br) clo clurs
7213 Stoiche Louis shoe	7900 Crest Fernon B
shiner	garden
7217 Carney Wm J beer	7919 Tappin's Flowers
garden	7930 Detroit Foundation
7221 Vacant	Music School
7237 Bridgeport Coaster Co	VanDyke av intersects
Lincoln Coaster Co	8005 McIntosh Ben J fill
Pearce Coaster Co	8025 Hull-Dobbs House
Delta Pearce Fred W & Co	(br) rest
Ice constr ems	8045 Curtis H Co
Pearce Fred W Corp	funeral directors
of Kentucky	Curtis Chas H
Walled Lake Park Co	rear Newochester Louis
Pearce Amusement	Parker av begins
C	8100 Alden Park Manor
Whittier Theatre	Patton Ira J mgr
Whittier Theatre Co	Jules Fine Furs
7245 Alray Drug Co	Alden Park Pharm-
7251 Belle-Bar Cafe beer	acy
garden	Steen Martha Mrs
7255 White Front restr	mirr
7257 Pappas John J confr	Burke Rhoda Dress
7259 Vacant	Shop
7261 Radkin Jos billiards	Eagan Wm E barber
7265 Saunce Sherman P	Alden Park Beauty
phys	Salon
Shipson Edith G phys	Mounteer Harold G
7269 Public Candy Co	acid
Field av begins	Ohmart Galen B phys
7301-15 Shumway John	Alteest's Pantry Shop
beer garden	baker
7317 Sullivan Michl J	AA & P Food Stores
barber	(br) gros
7319 Grace Beauty Salon	Colonial Laundry
7325 Broadway Tire Co	(br)
7327 Vacant	Forest Cleaners &
7335-40 Goldberg Nathan	Dyers Inc (br)
bicycle renting	May Shop The
7347 Kalajian Mitchell M	glasses
shoe repr	Alden Park Manor
7355 Johnson Farmer restr	Book Shop
7401 Goldberg Marvin H	8109 Shea John J
tires	8115 Parker Helen P Mrs
7433 Cows Russell E real	8120 Indian Village Manor
est	Dwyer John J mgr
Kowalske Walter	8127 Vacant
7435-45 Modern Sun Cover	8162 Detroit Towers
& Drapery Shoppe	Allan Edw H mgr
7437-39 Pekin Pavilion	Apartments:
rest	1 M Skinner Robt L
Townsend av begins	1 AA Wallace David A
7600 US Marine Corps	2 AD Dodge John D
Reserve No 17	3 A Vacant
Reserve 8d Batt	4 A Vacant
Naval Armory Athletic	1 Ballarper Jesse T
club	2 Ballarper Alvin E
US Naval Reserve	3 B Shaw Wm J
Armory	4 B Vacant
US S Dubuque	5 A Stamer Floyd O
Ward Jas F caretaker	5 B Gottfredson Mary Mrs
7601 Belle Isle Tent &	6 A Sorenson Chas E
awnings Co	6 B Vacant
7605 Redmond's Healing	7 A Vacant
Parlor	7 B Staples Geo A
7607 Lueck Lillian beauty	8 A Vacant
shop	8 B Vacant
7609 Nallas John gro	9 A Peterson Frank J
7611 Paendner Arno	9 B Powers Robt H
7613 Kane Maurice V	10 A Johnson Earl J
carpet layer	10 B Vacant
7615 DeVillers Jos beer	11 A Fox Harry J
garden	11 B Vacant
7625 Peters A & Co (br)	12 A Vacant
clo clurs	12 B Nicol John
7627 Gotschall Nell D	13 A Ramon Wm C
dentist	13 B Vacant
7629 Reiss Public Ad-	14 A Peed Lelroy G
dress Systems	14 B Smith Chas L
Modern Talking Pic-	15 A Vacant
ture Service	15 B Vacant
7633 Crowder Geo W beer	16 A Vacant
garden	16 B Vacant
7635 Moy Long Indry	17 A Vacant
7639 G & G Grocery Co	17 B Vacant
7641 Vacant	17 C Vacant
7643 Stahl Arth C	17 D Vacant
7645 Stahl Ethel Mrs	17 E Vacant
novelty	17 F Vacant
Baldwin av begins	Street continued
7700-32 River Terrace Apts	8181 Koch Laboratories
Knaggs Gilbert	8191 Ross Texaco Service
supl	Station
7705-11 Swaney Colletta M	Seminole av begins
phys	8311 Rose Aux L
7717 Miller John G	Rose Minnie Mrs
7717-45 Virginia Ct Asst	drsmkr
7721 Vacant	8225 Reeder Emma J Mrs
7725 Vacant	8330 Stair Edw D O
7729 Lodge John O	8335 Hillgrim Gowns
7733 Vacant	women's furngs
7737 Humburg Delia F	Hillman Florid
Mrs	Johnson Mary F
Humburg Clara L	beauty shop
mus tch	Carter Clarabel Mrs
7741 Gormely Valerie Mrs	drsmkr
7745 Vacant	Barber Gretchen
7750 Killian Geo F florist	mirr
Seyburn av begins	Johnson Jennie
7815 Jennings Chas Godwin	astrologer
Hosp	Strittmatter Barbara
Dracer Raymond B phys	Mrs massage
Drunk Clifford F	8344 Vacant
phys	rear Masore Victor
Drunk Walter C	8367 Meyer C Edwin
dentist	filling sta
Dr Carmichael Edw K	Irroguel av begins
phys	ss Owen Park
Dr Chittenden Geo E	8415 Anderson Lee Ad-
phys	vertising Co Inc
Dr Dunlap Henry A phys	Alida T J Inc
Dr Harzell John B phys	rear Cullen Jas E
Dr Hirschman Louis J	8430 Buhl Louise T Mrs
phys	G
Dr Jacoby Jack M	ss Memorial Park
Dr Jennings Alpheus F	8445 Burns Medical Bldg
phys	Dr Utzger Ralph G phys
Dr Johnson Ralph A phys	Dr Schorer Donald C phys
Morris Thos J dental	Dr Leacock Robt C phys
laboratory	Dr Orland Geo caretkr
Dr Smyd Edwin S	8469 Book Jas E Jr O
dentist	Burns av begins
Dr Schroeder Carlisle F	8625 Jefferson Av Presby-
phys	terian Church

## E JEFFERSON AVE 1935

Townsend av begins:  
 7600AU S Naval Reserve  
 AU S Naval Reserve  
 Armory  
 USS Dubuque  
 7601 Vacant  
 7605 Vacant  
 7607 Engle John  
 7609 Vacant  
 7613-15 Vacant  
 7625-27APeters A & Co  
 (br) clo clhrs  
 7627AGotschall Neil D  
 dentist  
 Barma Richd  
 7629 Vacant  
 7633 Crudder Geo W restr  
 7635ADadamo Ambrose  
 tailor  
 7636-42 Vacant  
 7638AG & G Grocery Co  
 7641 Vacant  
 7643 Vacant  
 7645 Vacant  
 Baldwin av begins:  
 7700 Belle Isle Speed  
 Boat Livery  
 7705AFisher Otto O phys  
 7711AFisher Otto O  
 7717AWeed Henry jr  
 7717-45 Virginia Court  
 Apts  
 7721ASmith Reynolds  
 7725AFrench Howard L  
 7729ALodge John C  
 7733AFloyd Chas A jr  
 7737 Humburg Della F  
 Mrs  
 7741AHornbrook John  
 7745AKross Eliz T Mrs  
 7750AKillian Geo F florist  
 7770 Vacant  
 Seyburn av begins:  
 7815ABrunk Clifford F  
 phys  
 ABrunk Walter C  
 dentist  
 ACarmichael Edw K  
 phys  
 AChittenden Geo E  
 phys  
 ACumming Robt E  
 phys  
 ADunlap Henry A  
 phys  
 AHartzell John B  
 phys  
 AHirschman Louis J  
 phys  
 ASchultz Louis O  
 dentist  
 ATrudeau John M  
 phys  
 AJennings Chas Godwin Hosp  
 AJennings Alpheus F  
 phys  
 AJennings Chas G phys  
 AWallace S Willard  
 phys  
 AWilcox Leslie F  
 phys  
 AWinans Donald C  
 dentist  
 7835AAjams Adeline Mrs  
 Welmer Geo F  
 7850AColony Town Club  
 7875-77ANeuhoff Drug Co  
 7891ABreitmeyers Inc (br)  
 florists  
 7895AStoepel H Robt  
 garage  
 7900ANewman R Adlington  
 7903ASanders Tri Cleaning  
 (br) clo clhrs  
 7909AVanDyke Restaurant  
 7919ATAepke's Flowers  
 florists  
 7930 Vacant  
 VanDyke av intersects:  
 8045 Curtiss Chas H  
 ACurtiss C H Co  
 funeral dirs  
 Sidea Jas W  
 Parker av begins:  
 8100 Alden Park Manor  
 Apts  
 Patton Ira J mgr  
 Alden Park Beauty  
 Salon  
 Alden Park Manor  
 Book Shop  
 Alden Park Manor  
 Pantry Shop  
 Alden Park Manor  
 Tea Room  
 Alden Park Pharmacy  
 Bishop May Mrs  
 women's furngs  
 Colonial Laundry

## E JEFFERSON AVE 1931

chiropodist  
 7645 Neuhoff Drug Co (br)  
 Baldwin av intersects  
 7700 Thompson Aeronautical  
 Corp  
 7711 Brohead R Thornton  
 real est  
 7717-45 Virginia Ct Apts  
 7717 Harry Mame  
 7721 Vacant  
 7725 Hewlett Thos H  
 7729 Lodge John O  
 7733 Smith Ethel Mrs  
 7737 Berery Mary B Mrs  
 7741 Hornbrook John  
 7745 Cady Guy B  
 Seyburn av begins  
 7815 Jennings Alpheus F  
 phys  
 Jennings Chas G phys  
 Hartzel John B phys  
 Winans D C dentist  
 Schultz L C dentist  
 Vaughan J Walter  
 phys  
 Carmichael Edw K  
 phys  
 Varney Henry R phys  
 Cooley T B phys  
 Watson O O phys  
 Wallace S W phys  
 Brunk Walter O  
 dentist  
 Hirschman Louis J  
 phys  
 Brunk Clifford phys  
 7835 Vacant  
 7840 Floridian Miniature  
 Golf Course  
 7850 Vacant  
 7875 Guardian Detroit  
 Bank (br)  
 7881 Breitmeyer's John  
 Sons (br) florist  
 7885 Brossy L C Dyeing  
 Co (br)  
 7895 Jefferson-VanDyke  
 Garage  
 7900 Newman R Adlington  
 Dr  
 7903 Hudson Cleaners &  
 Dyers (br)  
 7909 Doherty Brehm Co  
 humidifiers  
 7917 Turner Minnie beauty  
 parlor  
 7919 Taepke Gust H Co  
 (br) florists  
 7930 Vacant  
 VanDyke av begins

## E JEFFERSON AVE 1926

	hygienist	4
7645	Detroit Drug Co	4
	<b>Baldwin av</b>	4
7700	Russell Emily L Mrs	4
7711	Kay John	4
7717-45	Virginia Ct Apts	4
7717	Harry Mary	5
7721	Shaw Jas T	5
7725	McKinney Carlos J	5
7729	Lodge John C	5
7733	Rockwell Wm D	5
7737	Canfield Eliz C	5
7741	Hornbrook John	5
7745	Batchelor Edw A	5
	<b>Seyhurn av begins</b>	5
7800	Welch John	5
7835	Adams Chas W	5
7850	Vacant	5
7900	Newman R Adlington	6
	<b>Dr</b>	6
7907	Bowen Julian P	6
7915	Knowlson Albert T	6
7930	Ford Edsel B	6
	<b>Vandyke av begins</b>	6
8045	Rohnort Emma Mrs	6
	<b>Parker av begins</b>	6
8050	Vacant	6
3100	Alden Park Manor	6
	Alden Park Manor Inc	6
	<b>Apartments (Arling Cross)</b>	6
107	Schiapacasse Arth H	7
108	Monahan Homer W	7
109	Bates Martin V	7
110	Schaefer Jacob M	7
201	Fish S V Mrs	7
202	Bouton Geo L	7
203	Wilson Hansel D	7
204	Kennedy Homer N	7
205	Vacant	7
206	Durant Thos	7
207	Trefz Julius J	7
208	Cavanaugh J P	7
209	Kurth Wm	7
210	Thomas Henry A	8

## E JEFFERSON AVE 1921

7643—1539 Snyder Geo W  
 Elliott W H, dentist  
 Gotschall N D, dentist  
 Black Earl H, dentist  
 Detroit Drug Co, br  
 Baldwin at  
 7700—1550 Russell Emily L Mrs  
 7711—1551 Seyburn Wesson  
 —1555-59 Virginia Ct Apts  
 7717—1555 Harrie Mae  
 7721—1557 Springle Hobard A  
 7725—1559 Haldeman M Jas  
 7729—1561 Frazer Jno P  
 7733—1563 Ducey Jas G  
 7737—1565 Canfield Eliz C  
 7741—1567 Sheppard Albert D  
 7745—1569 Eisenberg Edw N  
 Soyburn av begins  
 7800—1576 Seyburn Steph Y  
 7835—1595 Bingham Elbert H  
 7850—1610 Buhl Jane E Mrs  
 7900—1630 Newman R Adlington  
 7907—1631 Bowen Julian P  
 7915—1635 Knowison Albert T  
 7930—1650 Ford Edsel B  
 VanDyke av begins  
 8045—1665 Bohnert Emma Mrs  
 Parker av begins  
 8050—1676 Stroh Julius

## E JEFFERSON AVE 1916

s s Delbridge C F  
 4261 Gail C W  
 4277 Carrier Albert  
 4283 Bean & Seigert, gar-  
 age  
 4285 Brake & Wagner, sai  
 Wagner Wilfred  
 4301 Neff W A  
 Neff begins  
 s s Vacant  
 Lakewood av begins  
 University pl begins  
 Rivard blvd begins  
 4428 Ducharme C A  
 4442 Rust D W  
 Roosevelt pl begins  
 Bathbone pl begins  
 s s Alger Annette Mrs  
 s s Alger F M  
 Washington rd begins  
 Lincoln av begins  
 s s Hughes Herbert  
 s s Dodge H E  
 Fisher rd intersects  
 s e cor Country Club of Det

**10.5 Regulatory Records Documentation:** The EDR Radius Map Report with GeoCheck (12-12-18), DEQ FOIA/File and LARA Documentation, Wayne County Department of Public Services Response, Assessing Records, City of Detroit Building Department Index Permit and City of Detroit, Safety Engineering and Environmental Department Oil Tank Card Records, City of Detroit Fire Department Response and DEQ Perfected Environmental Liens (11-2-18)







Warren C. Evans  
Wayne County Executive

December 14, 2018

Laura Gray  
ASTI Environmental  
P. O. Box 2160  
Brighton, MI 48116

Re: Freedom of Information Act Request<sup>1</sup> of December 12, 2018 for 7850 E Jefferson Ave., Detroit

Dear Ms. Gray:

Wayne County Department of Public Services Land Resource Management Division received the following request on December 12, 2018 by email:

Requests any reports or information pertaining to landfilling activity, spills/releases, 201 sites, aboveground storage tanks, underground storage tanks, soil or water contamination etc.

Your request is denied. After a diligent search for the requested records, we have determined and certify the records do not exist.

If you can provide more specific information, your request will be reviewed to determine whether the desired records exist.

You have the right to do either of the following with regard to the denial of your request:

- (1) Submit a written appeal to the County Executive, which specifically states the word "appeal" and states the reason or reasons the denial should be reversed.

OR

- (2) Commence an action in the circuit court to compel disclosure. Should you prevail, you will be entitled to have reasonable attorneys' fees, costs and disbursements assessed against the County by the court. If you or the County prevails in part, the court may, in its discretion, award you all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. If the court determines that the County has been arbitrary and capricious in its denial, you will also be entitled to punitive damages in the amount of \$1,000.00.

<sup>1</sup> The legally required posting of the "Wayne County Freedom of Information Act Procedures & Guidelines," as well as the "Wayne County Summary of FOIA Procedures & Guidelines," are available for viewing under the "Public Records" section of the County's website at the following web address: <http://waynecounty.com/county/foia.htm>

DEPARTMENT OF PUBLIC SERVICES  
LAND RESOURCE MANAGEMENT DIVISION/WATER QUALITY MANAGEMENT DIVISION  
3600 COMMERCE COURT, BUILDING E, WAYNE, MICHIGAN 48184  
(734) 326-3936 • FAX (734) 326-4421





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Wayne County Executive

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Ms. Gray  
December 14, 2018  
Page 2

If you have any questions please do not hesitate to contact me at (734) 326-3936.

Sincerely,



Patrick C. Cullen, FOIA Officer  
Department of Public Services  
Land Resource Management Division

Denial approved:



Patricia Moore  
Office of Corporation Counsel  
Date: 12/18/18

cc: Candice Smith-Parker

18-674



Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prcnt. Trans.	
BEDFORD ACQUISITIONS, LLC	SHAMROCK ACQUISITIONS, LLC	1	09/09/2015	QC	NO CONSIDERATION		PTA	0.0	
BEDFORD ACQUISITIONS LLC	SHAMROCK ACQUISITIONS LLC	0	09/09/2015	QCD	NO CONSIDERATION	2015405749		100.0	
PFRS GRS JEFFERSON AVENUE	BEDFORD ACQUISITIONS LLC	0	08/17/2015	WD	NO CONSIDERATION	2015330747		100.0	
7850 E JEFFERSON LLC	PFRS JEFFERSON AVENUE CORP	1,825,000	01/24/2008	PTA	VALID ARMS LENGTH		PTA	100.0	
Property Address	Class: 202-COMMERCIAL VAC		Zoning: R6	Building Permit(s)		Date	Number	Status	
7850 E JEFFERSON	School: DETROIT PUBLIC SCHOOLS								
	P.R.E. 0%								
Owner's Name/Address	WARD#: 17								
SHAMROCK ACQUISITIONS, LLC 13910 SIMONE SHELBY TWP MI 48214	2019 Est TCV Tentative								
	Improved	X	Vacant	Land Value Estimates for Land Table CGHT.COMMERCIAL GENERAL HIGH TRAFFIC					
	Public Improvements			* Factors *					
	Description	Frontage	Depth	Front	Depth	Rate	%Adj.	Reason	Value
	Dirt Road	200.00	820.00	1.0000	0.0000	0	100*		0
	Gravel Road	cght sq ft rates		164,047.000 Sq Ft		1.74	100		285,017
	Paved Road	* denotes lines that do not contribute to the total acreage calculation.							
	Storm Sewer	200 Actual Front Feet,		3.77 Total Acres		Total Est. Land Value =		285,017	
	Sidewalk								
	Water								
	Sewer								
	Electric								
	Gas								
	Curb								
	Street Lights								
	Standard Utilities								
	Underground Utils.								
	Topography of Site								
	Level								
	Rolling								
	Low								
	High								
	Landscaped								
	Swamp								
	Wooded								
	Pond								
	Waterfront								
	Ravine								
	Wetland								
	Flood Plain								
	Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/Other	Taxable Value		
	Who	When	What	2019	Tentative	Tentative	Tentative	Tentative	
				2018	349,200	0	349,200	331,308C	
				2017	326,400	0	326,400	324,494C	
				2016	321,600	0	321,600	321,600S	



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\*\*\* Information herein deemed reliable but not guaranteed\*\*\*



the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (13.5% of the population).

There is a growing awareness of the need to address the needs of older people, and the Government has set out a strategy for the 21st century in the White Paper on *Ageing Better: A Strategy for the 21st Century* (Department of Health 1999). This strategy is based on the following principles:

- Older people should be able to live independently and actively in their own homes.
- Older people should be able to live in their own homes for as long as possible.
- Older people should be able to live in their own homes with dignity and respect.
- Older people should be able to live in their own homes with safety and security.
- Older people should be able to live in their own homes with choice and control.
- Older people should be able to live in their own homes with support and care.

The White Paper also sets out a number of key objectives for the 21st century, including: 'to ensure that older people are able to live in their own homes for as long as possible' (Department of Health 1999).

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7835	Jefferson E	1 & 2
1115A	9-4-51	Lot No.
USE Dwelling		Date
CONS Brick		
REMARKS	O. K.	
A two story addition on rear.		
Interior alteration.		
Seyburn	Van Dyke	
	0-1595	
FORM BSE-200		

7843	E Jefferson	E25 of 3, 4 & W16 of 53
88922	OK	11/25/52 Lot No.
USE Mult dwelling		Date
CONS. Brick		
Remarks	O. K.	
To change use of existing mult. dwelling to doctors clinic		
C of D-38-CA-A		Record Card

7845	E Jefferson	E23 of 3, 4 W28 of 51 52, 53
88924	OK	11/25/52 Lot No.
USE Parking lot office bldg		Date
CONS. Frame		
Remarks \$400.00	O. K.	
C of D-38-CA		Record Card

7850	E. Jefferson	1 & 2
29412	8-20-76	Lot No.
USE Brick Hospital		Date
CONS. -----		
Remarks	O.K.	
Wreck and remove debris		
C of D-38-CA-A		Record Card

7850	E. Jefferson	1 & 2
47817	OK	7-7-70 Lot No.
USE Brick Hospital		Date
CONS. 400.		
Remarks	O.K.	
Lower ceiling in ofc. area (no electrical work).		
C of D-38-CA-A		Record Card

7850	E. Jefferson	1 & 2
46416	OK	1/31/55 Lot No.
USE hospital		Date
CONS. masonry		
Remarks \$1200.00	O.K.	
Interior alt. in basemts as per plan		
C of D-38-CA-A		Record Card

7850	E. Jefferson	1 & 2
40214	OK	9-30-54 Lot No.
USE hospital		Date
CONS. masonry		
Remarks \$950.00	O.K.	
Repair front terrace wall pour new flr., cut new door on 2nd flr. as per plan. Att. to not. BB 51814		
C of D-38-CA-A		Record Card

7850	Jefferson E.	1 & 2
14083	OK	11-20-45 Lot No.
USE hospital masonry		Date
CONS. O.K.		
Remarks	O. K.	
install a bathroom as per plan.		
\$300.00		
C of D-38-CA-A		Record Card

7850	Jefferson E.	1 & 2
6027	OK	6-19-45 Lot No.
USE hospital		Date
CONS. brick & stone		
Remarks	O.K.	
change location of boiler room & kitchen as per approved plan.		
\$1000.00		
Mary Kulaja		
C of D-38-CA-A		Record Card



7850  
 Jefferson E. 1 & 2  
 Lot No. 3575 Date 5-7-45  
 USE hospital  
 brick  
 CONS.  
 Remarks O.K.  
 enclose present side porch  
 as per plan.  
 \$950.00  
 Mary Kulaja  
 \$

C of D-38-CA-A Record Card

7850  
 Jefferson E. (rear) 1&2  
 Lot No. 2996 Date 4-18-45  
 USE garage to annex to  
 Hospital.  
 brick  
 CONS. *CO-33870 OK*  
 Remarks *1-1-46* O.K.  
 change private garage with  
 servants quarters on 2nd.  
 floor into annex to main  
 hospital as per plan,  
 approved by Bd. of Zoning  
 Appeals 4-6-45 Case #213-45.  
 Buhl Land Co. Agt. \$8000.

C of D-38-CA-A Record Card

7850  
 Jefferson E. 1-2  
 Lot No. 42279 Date 8-25-44  
 club  
 brick  
 CONS. *CO 30064*  
*11-1-44*  
 Remarks O.K.  
 make interior alts. as per  
 plan and change occupancy  
 from womens club house to  
 hospital.  
 \$15,000.00

FORM C OF D-38-CA-A RECORD CARD

7850  
 E. Jefferson 1 & 2  
 Lot No. 34941 Date 12-28-43  
 club residence  
 brick & stone  
 CONS. O.K.  
 Remarks O.K.  
 second means of egress  
 from third floor as per  
 plan.  
 Buhl Land Co.  
 \$450.00

FORM C OF D-38-CA-A RECORD CARD

7850  
 Jefferson E  
 HOUSE NO. 14855-A STREET LOT NO. 12-23-24  
 PERMIT NO. DATE  
 USE Dwelling  
 brick  
 CONS. O.K.  
 Remarks Int Alt. O.K.

7850  
 Jefferson E. 1-2  
 Lot No. 51082 Date 6-21-37  
 club house  
 brick  
 CONS. **FILED AS COMPLETE**  
 Remarks O.K.  
 install fire exit from  
 3rd floor through old  
 elevator shaft to second  
 floor, stair to be  
 provided with hand rail  
 on each side.  
 Colony Town Club  
 \$300.00

FORM BSE-200

7850  
 Jefferson E. 1-2  
 Lot No. 37484-A Date 6-12-31  
 garage  
 brick  
 CONS. O.K.  
 Remarks O.K.  
 Alterations in  
 chauffeur's quarters  
 over garage  
 J. Elizabeth Buhl Est.  
 1,000.00

Form 8-B-200

7850  
 E. Jefferson  
 HOUSE NO. 15096-A STREET LOT NO. 1-23-25  
 PERMIT NO. DATE  
 USE Elevator  
 Brick Bldg  
 CONS. Steel Shaft  
 Remarks O.K.

7850  
 Jefferson E. 1-2  
 Lot No. 3079A Date 9-20-13  
 Boathouse  
 Frame  
 CONS. Frame  
 Remarks O.K.  
 Build a 2 story frame  
 addition.  
 Van Dyke Seyburn  
 0-1610

FORM BSE-200

7700 E. Jefferson

22662 6-5-39 LOT NO. DATE

M. H. Goss Co.

USE 1-12000 gal. O.S.U.G.

CONS. Simplex

REMARKS *F.T. 22154* O.K.

*F.T. #F24848 4/2/53*

*8/24/53*

FORM BSE-200

7700 Jefferson E.

15616 5-29-34 LOT NO. DATE

Walton Dodge Co.

USE 1-220 gal outside

CONS. Quick Heat

REMARKS *Burner Removed* O.K.

FORM BSE-190

7757 E. Jefferson

14986 9-15-48 Lot No. Date

Enterprise Heat & Power Co.

USE 1-6000 Gal U.G. Tank

CONS. Enterprise

REMARKS *F.T. 39707* O.K.

C of D-38-CA Record Card

7815 E. Jefferson Ave.

11250 5-28-30 LOT NO. DATE

Mech. Heat & Cold

USE 1-5000 gal. u.g.

CONS. Electrol

REMARKS *11473* O.K.

7835 Jefferson E.

17572 1-13-36 LOT NO. DATE

Wm. A. McKinnon Co.

USE 1-1000 gal. OSUG

CONS. Gilbarco

REMARKS *Replacement* O.K.

*F.T. 2060*

7835 E. Jeff.

2274 2-16-26 LOT NO. DATE

Fuel Oil Burner Corp.

USE 1000 gal. outside ug

CONS. A.B.C.

REMARKS *2060* O.K.

7844 E. Jefferson

26777 11-23-45 LOT NO. DATE

Wm. A McKinnon CO.

USE 2-220 gal. B'smt.

CONS. Delco

REMARKS *F.T. F5863* O.K.

FORM C OF D-38-CA RECORD CARD

7850 E. Jefferson

13709 9-29-31 LOT NO. DATE

Bruce Wigle Plg. & Htg. Co.

USE 220 gal. basement

CONS. YORK

REMARKS *20934* O.K.

7871 E. Jefferson

Sunstrand Fuel Oil Br

Bank of Detroit

Final Tag 4513

REMARKS O.K.

7875-77 E. Jefferson  
 49383 6-22-53 Lot No. Date  
 Use Automatic Htg. Corp.  
 Cons. Timken  
 Remarks O.K.  
 2 - 220 gal. tanks  
 basement  
 2-1-54 F.T. 37579  
 C of D-38-CA-A Record Card

7875 E. Jefferson Ave. 40  
 36332 3/12/52 Lot No. Date  
 Use McDonell & Sons Htg. Co.  
 (two 220 gal. tanks)  
 Cons. Basement  
 Remarks Electrol O.K.  
 Underground tank leaking;  
 only work done was install  
 2-220 gal tanks  
 4/2/52  
 F-18640  
 C of D-38-CA Record Card

7895 E. Jefferson  
 17075 10-22-48 Lot No. Date  
 Use Charles R. Beltz & Co.  
 Cons. Replacement of Burner  
 Remarks Century O.K.  
 F.T. 4556  
 F.T. 31305  
 9-11-53  
 C of D-38-CA Record Card

7895  
 Jefferson E.  
 17323 11-18-36 Lot No. DATE  
 Use Timken Silent Autom. Co.  
 Cons. 1-220 gal. bsmt.  
 Remarks Timken Silent Automatic O.K.  
 F.T. 16670  
 Form BSE-190

7895  
 E. Jefferson  
 15863 10-12-34 Lot No. DATE  
 Use Timken Silent Autom. Co.  
 Cons. 2-220 gal. bsmt.  
 Remarks Timken Silent Automatic  
 (installed by others)  
 15593  
 Form BSE-190

7895  
 East Jefferson  
 14851 2-3-33 Lot No. DATE  
 Use H. B. Stoepel  
 Cons. 2-220 gal. Bsmt.  
 Remarks Ballard Jr. O.K.  
 Form BSE-190

7895 E. Jefferson Ave.  
 5014 Aug. 2nd 27. Lot No. DATE  
 Use H. Robert Stoepel  
 Cons. 20000 gal. U. G.  
 Remarks Johnson Type #22 Rotary O.K.  
 F.T. 4556  
 Form BSE-190

7895 E. Jefferson  
 4876 6-20-27 Lot No. DATE  
 Use Fuel Oil Service Co.  
 Cons. 220 gal. bsmt.  
 Remarks "Quantuple"  
 Not installed  
 Form BSE-190

7895 E. Jefferson Ave  
 5030 Aug. 3rd 27. Lot No. DATE  
 Use Oil Heat Service Co.  
 Cons. 420 Bsmt.  
 Remarks "Super" O.K.  
 F.T. 3178  
 Form BSE-190

7900 E. Jefferson  
 Lot No. 25110 Date 11-7-49  
 Use Charles E. Beltz & Co.  
 Cont. 1-1000 gal. UG Tank  
 O.K.  
 Remarks  
 Airtemp  
 FT 9155  
 11-6-50  
 C of D-38-CA Record Card

7900 E. Jefferson  
 Lot No. 16494 Date 10-15-48  
 Use Chrysler Conf of  
 Business Management  
 Cont. 1 - 220 Gal.  
 O.K.  
 Remarks  
 Bmt.  
 Airtemp Oil Water Htr.  
 FT 13810  
 C of D-38-CA Record Card

7900 E. Jefferson  
 Lot No. 10967 Date 2-10-48  
 Use C. R. Beltz & Co.  
 Cont. Airtemp  
 Replacement  
 O.K.  
 Remarks  
 FT 8734  
 C of D-38-CA Record Card

7900 Jefferson E.  
 Lot No. 8511 Date 8-21-29  
 Use Winkon Detroit Co.  
 Cont. 2000 gal outside ug  
 O.K.  
 Remarks  
 Winkon  
 8734  
 C of D-38-CA Record Card

8000 8005  
 E. Jefferson  
 Lot No. 23485 Date 6-24-40  
 Use Dasher Const. Co.  
 Cont. 1-1000 gal. U.G.  
 Aldrich  
 O.K.  
 Remarks  
 FT 22644  
 FORM C OF D-38-CA RECORD CARD

8045 East Jefferson  
 Lot No. 29169 Date 6-5-51  
 Use Cunningham Stoker Co.  
 Cont. 1 - 1,000 gal. U.G.  
 Beckett Commodore  
 O.K.  
 Remarks  
 12/13/51  
 FT F-13134  
 C of D-38-CA Record Card

8045 E. Jefferson  
 Lot No. 5173 Date 8-19-47  
 Use Wm. O. McKinnon Co.  
 Cont. 1 - 1000 gal. F.O.  
 O.K.  
 Remarks  
 Gilbarco  
 FT. 31912  
 FORM C OF D-38-CA RECORD CARD

8109 E. Jefferson  
 Lot No. 29731 Date 9-9-46  
 Use S. S. Pirie Co.  
 Cont. 2-220 gal. Bmt.  
 O.K.  
 Remarks  
 S. T. Johnson  
 FT. 2734-4-10-53  
 FORM C OF D-38-CA RECORD CARD



**From:** [Gladdie Miles](#)  
**To:** [Laura Gray](#)  
**Subject:** Re: Records review  
**Date:** Tuesday, January 08, 2019 9:55:58 AM  
**Attachments:** [ATT00001.jpg](#)

---

Hi Laura,

There is no file(s) and/or report(s) for the request of 7850 E. Jefferson Avenue.

Please note that this request is completed and closed.

Respectfully,

Gladdie Miles, AACP  
Clerk/Office Assistant II  
Detroit Fire Department  
Fire Marshal Division  
1301 Third Street  
Detroit, MI 48226  
(313) 596-2948 FAX: (313) 596-2978  
[milesg@detroitmi.gov](mailto:milesg@detroitmi.gov)



>>> Laura Gray <[lgray@asti-env.com](mailto:lgray@asti-env.com)> 12/12/2018 8:35 AM >>>

Hello Ms. Miles,

Please accept the following attachment.

Best,

**Laura Gray**

*Environmental Technician*



Click [here](#) to receive ASTI's technical e-updates.

10448 Citation Dr., Suite 100

Brighton, MI 48116

Ph: 810.225.2800

C: 810.599.5476

Web Site: [www.asti-env.com](http://www.asti-env.com)

Email: [lgray@asti-env.com](mailto:lgray@asti-env.com)

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (1990-2000).

There is a growing awareness of the need to address the needs of older people in the UK. The Department of Health (2000) has published a strategy for older people, which sets out a vision for the future of older people's health and care. The strategy is based on the following principles:

- Older people should be able to live independently and actively in their own homes.
- Older people should be able to access the services and support they need to live well.
- Older people should be able to participate in decisions about their care and services.
- Older people should be able to live in a safe and secure environment.

The strategy also sets out a number of key objectives, including:

- To reduce the number of older people who are dependent on others for their care.
- To improve the quality of care for older people.
- To ensure that older people have access to the services and support they need to live well.
- To ensure that older people are able to participate in decisions about their care and services.

The strategy is a key document for the UK government and is being implemented through a number of different initiatives.

One of the key initiatives is the Older People's Survey, which is a national survey of older people's health and care. The survey is being conducted by the Department of Health and is the first of its kind in the UK. The survey will provide valuable information on the needs of older people and will help to inform the development of policies and services for older people.

Another key initiative is the Older People's Health Review, which is a review of the health care system for older people. The review is being conducted by the Department of Health and is the first of its kind in the UK.

The review will examine the current state of the health care system for older people and will identify areas for improvement. The review will also set out a number of key recommendations for the future of the health care system for older people. The review is expected to be published in the next few months.

There are a number of other initiatives that are being implemented to improve the health and care of older people. These include the Older People's Care Review, which is a review of the care system for older people, and the Older People's Housing Review, which is a review of the housing system for older people.

The UK government is committed to improving the health and care of older people. The strategy for older people is a key document for the UK government and is being implemented through a number of different initiatives. The Older People's Survey and the Older People's Health Review are two of the key initiatives that are being implemented to improve the health and care of older people.

The Older People's Survey is a national survey of older people's health and care. The survey is being conducted by the Department of Health and is the first of its kind in the UK. The survey will provide valuable information on the needs of older people and will help to inform the development of policies and services for older people.

The Older People's Health Review is a review of the health care system for older people. The review is being conducted by the Department of Health and is the first of its kind in the UK. The review will examine the current state of the health care system for older people and will identify areas for improvement. The review will also set out a number of key recommendations for the future of the health care system for older people.

The Older People's Care Review is a review of the care system for older people. The review is being conducted by the Department of Health and is the first of its kind in the UK. The review will examine the current state of the care system for older people and will identify areas for improvement. The review will also set out a number of key recommendations for the future of the care system for older people.

The Older People's Housing Review is a review of the housing system for older people. The review is being conducted by the Department of Health and is the first of its kind in the UK. The review will examine the current state of the housing system for older people and will identify areas for improvement. The review will also set out a number of key recommendations for the future of the housing system for older people.

## **REMEDICATION AND REDEVELOPMENT DIVISION PERFECTED LIEN LIST**

The Department of Environmental Quality (DEQ), Remediation and Redevelopment Division (RRD) has perfected liens on property pursuant to Section 20138 of Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA), MCL 324.20101 *et seq.*

The following is a current listing of liens perfected by the RRD on property as of the date that appears on this list. The list will be updated **only** when the RRD has perfected a new lien on a property, or has released a lien from a property. A new date will then appear on the list. This list does not include any lien(s) that may have been perfected by another DEQ Division or other entity. For information regarding this list, please contact Paul Johnson at 517-284-5067 or by e-mail at [johnsonp1@michigan.gov](mailto:johnsonp1@michigan.gov). For lien information related to the Resource Management Division or the Office of Oil, Gas & Minerals, please call 517-335-6766 respectively.

**The information provided herein cannot be construed or interpreted as legal verification that a perfected lien does not exist on a particular property, or that a lien is the only perfected lien on a property. To obtain legal verification, you must access official records from the appropriate County Register of Deeds and/or the Michigan Secretary of State when applicable.**

<i>County</i>	<i>Township</i>	<i>City/Vlg</i>	<i>Address</i>	<i>Other Description</i>	<i>Lot No</i>	<i>Section Town Range</i>			<i>Tax Code</i>
Alcona		Harrisville	216 S. US23			13	T26N	R9E	
Allegan				Case #11-156-CE (call for more info)					
Allegan	Watson					24	T2N	R12W	23-24-001-10
Allegan	Watson					24	T2N	R12W	23-24-001-10
Allegan				Case #11-156-CE (call for more info)					
Alpena		Alpena	4709 Long Rapids Rd.	Lake Winyah Shores Sub	Lot 43				
Antrim		Ellsworth	Vlg. Of Ellsworth			14	T32N	R8W	05-44-013-061-00
Antrim		Ellsworth	Vlg. Of Ellsworth			14	T32N	R8W	05-44-023-004-00
Antrim	Milton	Rapid City	12929 Cherry Ave.	Plat of New Highlands	Lot 14				
Antrim		Riverview	6235 Crystal Springs Rd.	Supervisor's Plat of Riverview	Lot 1				
Arenac	Mason	Turner	50 Mason Road			12	T20N	R5E	
Arenac		Standish	105 N. Main	Assessor's Plat 5	Lot 370				40-2-500-000-370-00
Arenac	Mason	Turner	50 Mason Road			12	T20N	R5E	
Baraga	L'anse	L'anse	Winter St.			9	T50N	R33W	
Benzie		Lake Ann Vlg	P.O. Box 62 1st St.		Lots 7 & 9, Blk 28				
Berrien		Watervliet				2	T3S	R17W	11-21-0023-0014-01-6



<i>County</i>	<i>Township</i>	<i>City/Vlg</i>	<i>Address</i>	<i>Other Description</i>	<i>Lot No</i>	<i>Section</i>	<i>Town Range</i>	<i>Tax Code</i>
Berrien		Watervliet				2	T3S R17W	11-21-0002-0015-01-0
Berrien				Case #11-156-CE (call for more info)				
Berrien	Benton	Benton Harbor					T4S R18W	11-045-18W-05DB
Berrien		Watervliet	106 E. St. Joseph St.	Sutherland's Addition	Lot 1, exceptions			
Berrien				Judgment Lien - Case #11-156-CE (call for more info)				
Branch	Butler		1031 Clarendon Rd., Quincy, Michigan			15	T5S R5W	
Branch	Algansee	Quincy	144/146 Crocket Drive	Woodland plat	Lot 2,3 & land	5	T7S R5W	
Branch	Butler		1031 Clarendon Rd., Quincy, Michigan			15	T5S R5W	
Branch	Algansee	Quincy	144/146 Crocket Drive	Woodland plat	Lot 2,3 & land	5	T7S R5W	
Calhoun	Bedford	Battle Creek		Facility ID 00005228	66, 67, + land	29	T1N R8W	13-04-360-058-W
Calhoun	Marengo	Marshall	1035 East Michigan Ave.			19	T2S R5W	
Calhoun	Bedford	Battle Creek		Facility ID 00005228	66, 67, + land	29	T1N R8W	13-04-360-058-W
Cass		Dowagiac	111 North Front St.	Patrick Hamilton's Add	Lot 12			
Cass				Case #11-156-CE (call for more info)				
Cheboygan		Cheboygan		J M Pennell's First Add to city	Lot 13, Blk 8			
Chippewa		Dafter	9976 Soo Line Rd.			21	T46N R1W	
Delta	Masonville	Rapid River	US2	H.W. Cole's Second Add	Lots 7,8 Blk 11	29	T41N R21W	21-012-341-007-00 & 21-012-179-021-00 & 21-012-179-020-00
Eaton		Grand Ledge	105 E. Saginaw Hwy	Supervisors Plat #2	Pt of Lot 179			23-400-078-001-790-00 & 791-00 & 791-01
Genesee		Burton	5516 Davison Rd			11	T7N R7E	59-11-200-006
Genesee	Genesee					33	T8N R7E	R-1006-22
Genesee		Flushing	90 E. Main St.	Assessor's Plat #5	Pt of Lot 98,			
Genesee		Flint	3402 Martin Luther King		Lots 544, 545, & 546			
Genesee		Flint	603 Pingree Ave	Elm Park Sub	Lots 187-195, 196, 230			11-17-352-0187-87

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Genesee		Flint	603 Pingree Ave	Elm Park Sub	Lots 187-195, 196, 230				11-17-352-0187-87
Genesee		Flint	3402 Martin Luther King or 121 E. Pasadena		Lots 548 & 549				
Genesee	Genesee					33	T8N	R7E	R-1006-22
Grand Traverse	Blair		5175 Sawyer Wood Dr	Woodland Terrace Annex	Lots 1-4 Blk 18	7	T26N	R11W	28-02-007-047-20
Grand Traverse	Blair					7	T26N	R11W	
Grand Traverse	East Bay						T27N	R10W	28-03220-020-00
Hillsdale	Moscow					15	T5S	R2W	30-03-015-200-012-15- 5-2
Hillsdale	Scipio		Mosherville Rd.			10	T5S	R3W	30-02-010-100-011
Ingham		Lansing	3125 MLK Blvd			29	T4N	R2W	33-01-01-29-476-041
Ingham		Lansing	300 North St.	Turner & Smith's Sub of Lot 6 of Townsend Sub.	Lots 1,2, & Pt. 3 of Lot 6				
Isabella		Mt. Pleasant	226 S. Main St.		Lot 1 & Pt 2, Blk 25				
Kalamazoo		Portage	9008 Portage Rd.	Ames West Lake Pk.	Lots 58,59,60				
Kalamazoo		Kalamazoo	3501 South Burdick St.	Supv Plat of Henry Johnson Plat	Lot A				
Kalamazoo		Vlg. of Vicksburg		Wolverton's Revised Addition		18	T4S	R10W	39-15-18-100-018
Kalamazoo	Alamo					26	T1S	R12W	01-26-251-019
Kalamazoo	Wakeshma	Fulton	13995 East W Ave.			16	T4S	R9W	16-16-490-190
Kalkaska	Kalkaska					29	T27N	R7W	
Kalkaska	Kalkaska					29	T27N	R7W	
Kent		Grand Rapids			6,7,8,4,5 + add parcel				41-14-19-330-017
Kent		Wyoming	2539 28th St, SW			9	T6N	R12W	41-17-09-451-013
Kent		Wyoming	2539 28th St, SW			9	T6N	R12W	41-17-09-451-013
Kent		Grand Rapids	2555 Oak Industrial Drive			22	T7N	R11W	
Lake	Pleasant Plains		M-37	Pere Marquette Plat	107,108,78,79	22	T17N	R13W	43-17N-13W-22BD
Lake	Pleasant Plains		M-37	Pere Marquette Plat	Lot 2052,53,80- 83,103-106	22	T17N	R13W	

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Lake	Pleasant Plains		M-37	Pere Marquette Plat	part of 20,21	22	T17N	R13W	
Livingston	Putnam					27	T1N	R4E	14-27-400-002 30147080
Livingston	Hamburg		10776 Hall Rd			25	T1N	R5E	47-15-25-400-014
Livingston		Brighton		Smith & McPherson Addition	219,220,221	30	T2N	R6E	18-30-300-017
Livingston		Brighton		Smith & McPherson Addition	219,220,221	30	T2N	R6E	18-30-300-017
Livingston		Fowlerville	306 E. Grand River	Fowler's First Add	Lot 39 Blk 2				05-11-302-014
Livingston	Hamburg		10776 Hall Rd			25	T1N	R5E	47-15-25-400-014
Macomb	Macomb	Warren			Lot 33 & 13				13-19-353-004
Macomb	Chesterfield					PC 192	T3N	R14E	09-21-251-002
Macomb	Chesterfield					PC 192	T3N	R14E	09-21-401-003
Macomb	Chesterfield					PC 192	T3N	R14E	09-21-401-003
Macomb	Shelby				#63,64				07-18-401-005,50-07- 593-063-00; 07-18-401- 004, 50-07-593-064-00
Macomb	Chesterfield					PC 192	T3N	R14E	09-21-251-002
Macomb	Macomb	Warren			Lot 33 & 13				13-19-353-004
Monroe	Bedford					28	T8S	R7E	58-08S-07E-28BA
Montcalm	Reynolds	Howard City				35	T12N	R10W	59-017-900-083-00 or 092-00
Montcalm	Reynolds	Howard City				35	T12N	R10W	59-017-900-083-00 or 092-00
Montcalm	Winfield		15350 West Howard City/Edmore Road			16	T12N	R9W	59-020-016-008-01
Montcalm	Winfield		15350 West Howard City/Edmore Road			16	T12N	R9W	59-020-016-008-01
Montcalm	Bloomer					12	T9N	R5W	59-051-700-040-00
Montmorency		Atlanta Vlg	103 State St. Box 615		Lots 5 thru 11, Blk 7				
Newaygo	Everett					17	T13N	R12W	
Newaygo	Everett					17	T13N	R12W	

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Oakland	Farmington	Farmington	29024 Grand River	Richland State Sub. Resub of Richland's Gardens Sub	Lots 45-51	36	T1N	R9E	23-36-304-022
Oakland	Waterford/ White Lake					7&18 12	T3N T3N	R9E R8E	13-07-100-008 12-12-200-007
Ogemaw	Hill	Lupton	3610 Forest Dr.	Shady Shores Park sub of Gov't Lot 2&3	Pt Lot 1 Blk A, Pt. of Lot 8	8	T23N	R4E	
Osceola		Ewart	202 E. Seventh		479				
Osceola	Hartwick					1	T19N	R8W	67-04-001-001-00
Osceola	Orient					21	T17N	R7W	67-11-021-021-10 67-11-021-022-10
Ottawa	Crockery	Vlg of Nunica		Adsit's Add	Lot 3, Blk 3	15	T8N	R15W	70-04-15-430-018 70-04-14-320-002
Ottawa	Tallmadge				Gov't 4	12	T6N	R13W	70-14-12-400-003
Ottawa				Case #11-156-CE (call for more info)					
Ottawa				Case #11-156-CE (call for more info)					
Ottawa		Grand Haven		Rycenga's Plat 3	197	21	T8N	R16W	70-03-21-415-018
Presque Isle	Presque Isle		17661 Grand Lake Blvd.		17				
Presque Isle	Presque Isle		17661 Grand Lake Blvd.		17				
Presque Isle	Presque Isle			Lot 17, of SUPERVISOR'S PLAT OF SPRINGFIELD CAMP	17				
Presque Isle	Presque Isle			Lot 17, of SUPERVISOR'S PLAT OF SPRINGFIELD CAMP	17				
Shiawassee		Owosso	1725 Corunna Ave.	A V Johnson's Add	Lots 4,5,11, 12,13 Blk 8				
Shiawassee		Owosso	210-300 E Monroe St.	A L Williams Second Addition	Blk 1= 9,10,1; Blk 2 = 1-13 AL Williams Second Add	24	R2E	T7N	78-010-652-001-004
Shiawassee	Shiawassee					26	T6N	R3E	
Shiawassee	Shiawassee					26	T6N	R3E	
St. Joseph	Colon					3	T6S	R9W	
St. Joseph				Case #11-156-CE (call for more info)					

<i>County</i>	<i>Township</i>	<i>City/Vlg</i>	<i>Address</i>	<i>Other Description</i>	<i>Lot No</i>	<i>Section</i>	<i>Town</i>	<i>Range</i>	<i>Tax Code</i>
St. Joseph	Colon					3	T6S	R9W	
Tuscola	Wisner	Fairgrove	9006 Bay City Forestville Rd.		Parcel B	29	T14N	R7E	10-01-0004-790-06
Tuscola		Caro		Plat of Centerville (Caro)	1and pt 2 Blk23	3	T12N	R9E	
Van Buren				Case #11-156-CE (call for more info)					
Wayne		Detroit	4445 Lawton aka 4450 Lawton	Plat of RR Concessions, PC 729	41-58, Out Lot 8,				
Wayne		Woodhaven				28	T4S	R10E	59-080-99-0004-000
Wayne	Brownstown	Flat Rock				28	T4S	R10E	58-081-99-0001-000
Wayne	Brownstown	Flat Rock				28	T4S	R10E	58-081-99-0001-000
Wayne		Woodhaven				28	T4S	R10E	59-080-99-0008-000
Wayne		Woodhaven				28	T4S	R10E	59-080-99-0008-000
Wayne	Brownstown	Flat Rock				28	T4S	R10E	58-081-99-0002-000
Wayne		Detroit 48227	14000 Fenkell	Davy's Fenkell Ave Sub	Lots 33-36				
Wayne	Brownstown	Flat Rock				28	T4S	R10E	58-081-99-0002-000
Wexford		Cadillac	Blk 14		4,5,6				
Wexford		Cadillac		Outlot 6 Cummer & Hayes Add.	Outlot 6				10-056-00-026-00

**10.6 Interview Documentation:** MSHDA User's Questionnaire, Owner Questionnaire, and Development Plan

**SECTION VIII: 2018 - USER’S ENVIRONMENTAL QUESTIONNAIRE AND DISCLOSURE STATEMENT**

The Authority requires the completion of its “User’s Environmental Questionnaire and Disclosure Statement” to fulfill Section 6, User’s Responsibilities of the ASTM Standard E 1527-13. **The checklist is to be completed and signed by the sponsor (developer), and returned to the Environmental Professional conducting the Phase I. This questionnaire is to be reviewed by the Environmental Professional and incorporated into their Phase I report (the completed User’s Questionnaire is to be included in Appendix 10.6 of the Phase I report). Failure to properly complete this process will result in delays.**

In preparing this document, the “User” (Sponsor) must make a good faith effort to answer the questions in the checklist. The User or a preparer designated by the User presents that to the best of his/her knowledge, the above statements and facts are true and correct and that to the best of the preparer's knowledge, no material facts have been omitted or misstated. Time and care should be taken to check whatever records are in the User’s possession. If any of the following questions are answered in the affirmative or if answers are unknown, are qualified, or cannot be obtained, the burden is on the Environmental Professional to determine whether further inquiry is appropriate. The User should document the reason for any affirmative answer to provide the Environmental Professional with all appropriate information. Moreover, the Environmental Professional must determine if further inquiry in any area where the property owner provides incomplete information is warranted, providing written explanation for their recommendation(s).

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Relief and Brownfield’s Revitalization Act of 2001 (the “Brownfield’s Amendments”), the User must provide the following information (if available) to the Environmental Professional. Failure to provide this information could result in a determination that “all appropriate inquiry” is not complete.

User’s (Sponsor’s) Name: GDC-East Jefferson, LLC

User’s (Sponsor’s) Telephone No.: 248-513-4900

User’s (Sponsor’s) Fax No.: \_\_\_\_\_

Subject Property: 7850 E. Jefferson

Property Address: 7850 E. Jefferson

City: Detroit State: MI Zip: 48214

**1.0 Environmental Cleanup Liens:**

Are you aware of any environmental cleanup liens against the property that are filed, recorded, or unrecorded under federal, tribal, state, or local law?

   YES   x   NO (If "YES," please describe)

2.0 **Activity and Land Use Limitations:**

Are you aware of any activity and land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the site and/or have been filed, recorded or unrecorded in a registry under federal, tribal, state or local law?

YES  NO (If "YES," please describe)

3.0 **Specialized Knowledge or Experience of the User:**

(a) As the user of this ESA do you have any knowledge or experience related to the property or nearby properties that could be material to any environmental conditions of this property?

YES  NO (If "YES," please describe)

(b) Are you involved in the same line of business as the current or former occupants of the property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?

YES  NO (If "YES," please describe)

4.0 **Relationship of Purchase Price to Fair Market Value:**

(a) Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

YES  NO (If "YES," please describe)

(b) If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present at the property?

YES  NO (If "YES," please describe)



5.0 **Commonly Known or Reasonably Ascertainable Information:**

Are you aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user,

(a) Do you know the past uses of the property? Please list: Only as disclosed in prior  
environmental reports provided by Seller.

(b) Do you know the specific chemicals that are present or once were present at the property?

YES  NO (If "YES," please describe)

(c) Do you know of spills or other chemical releases that have taken place at the property?

YES  NO (If "YES," please describe)


(d) Do you know of any environmental cleanups that have taken place at the property?

YES  NO (If "YES," please describe)

6.0 **Presence or Likely Presence of Contamination:**

As the user of this ESA and based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property?


YES  NO (If "YES," please describe)

User's Signature:  Date January 4, 2019

User's Printed Name: Nathan Keup

**ASTI Environmental Phase I ESA**

**OWNER QUESTIONNAIRE**

Respondent Name: Matthew Duffield Signature: 

Time of Association with the Property: 2015-current Title President

Date: 1/10/19

Phone Number and/or Email Address: 248.630.7878 / mduffield@shai

Subject Property Address: 7850 E Jefferson, Detroit MI 48214

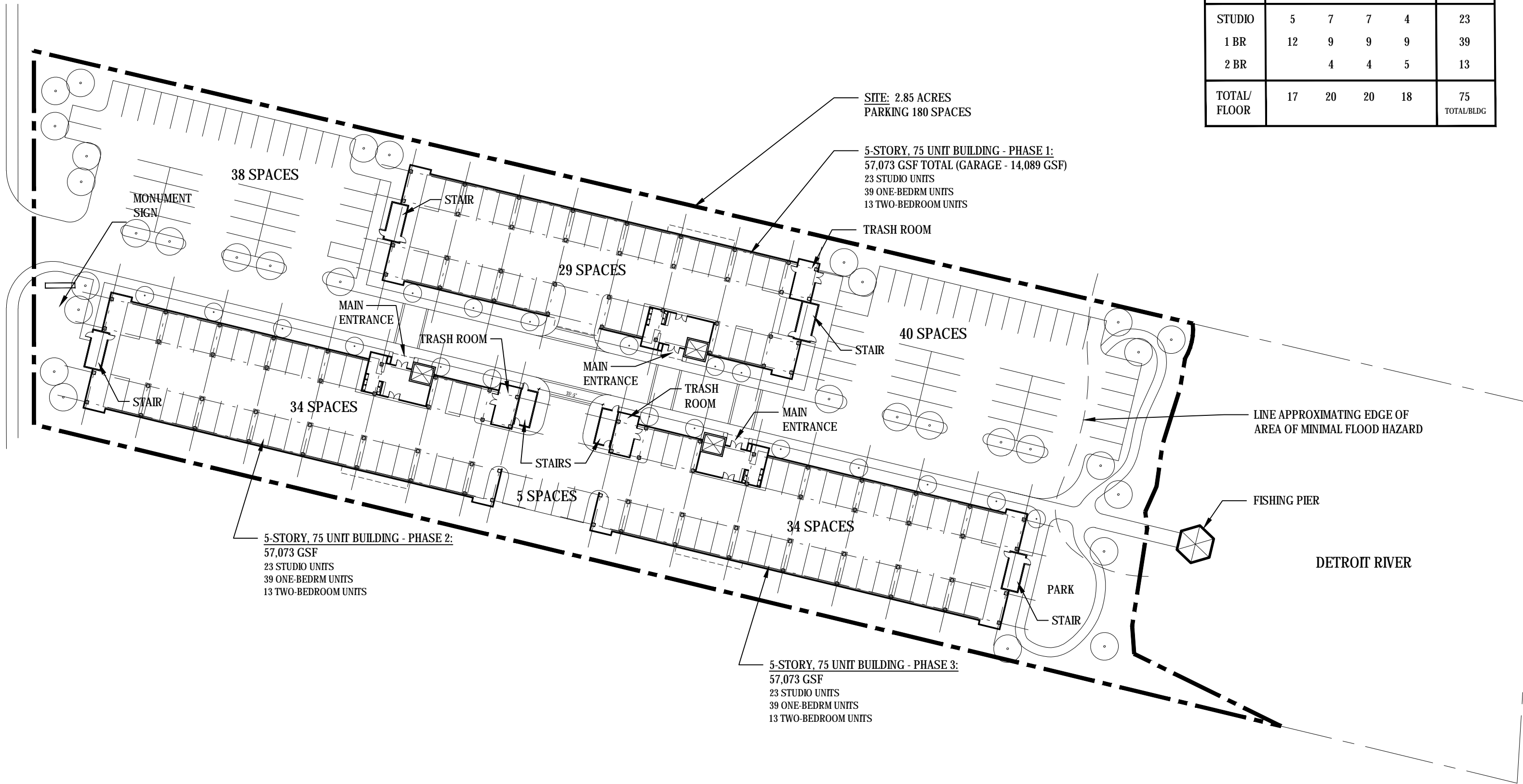
Please answer all questions to the best of your knowledge and in good faith.

	Question	Response		Comment (Please provide for Yes responses)
		Yes	No	
1	Is the Property currently used for manufacturing or industrial use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
2	Is an adjacent property currently used for manufacturing or industrial use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
3	Has the property or adjoining property been used for manufacturing or industrial purposes in the past?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
4	To the best of your knowledge, has the property been used as a gas station, motor repair facility, print shop, dry cleaner, photo lab, junkyard, recycling facility, or landfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
5	To the best of your knowledge, has an adjacent property been used as a gas station, motor repair facility, print shop, dry cleaner, photo lab, junkyard, recycling facility, or landfill?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Are there any pesticides, herbicides, automotive or industrial batteries, paints or other chemicals stored on the property (exclude those <5 gallons unless in large quantities of >25 gallons total)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
7	Have pesticides, herbicides, or other agricultural chemicals been stored, mixed, or applied to the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
8	Are there any plastic or metal drums (typically 55-gallon) located on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
9	Has fill dirt from an offsite source been placed on the property that may be contaminated or from an unknown source?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
10	Has any construction debris, substances identified as hazardous substances, unidentified wastes, tires, batteries, or other wastes been dumped above grade, buried, or burned at the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
11	Is there any soil on the property that has been obviously stained?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
12	Does the property discharge waste water, on or adjacent to the property, other than storm water into a sewer system or retention/detention pond?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
13	Is the property served by a private well or non-public water system? Include potable and irrigation wells.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
14	Do you know of former water (potable or irrigation) wells associated with the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
15	Is there currently or has there been in the past a septic system for the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
16	Are there or have there been in the past any pits, ponds, or lagoons associated with waste treatment or disposal on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

Question		Response		Comment (Please provide for Yes responses)
		Yes	No	
17	Are there storage tanks, above ground or underground, located on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
18	In the past, have there been storage tanks, above ground or underground, located on the property?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Historical sources indicated that two storage tanks were present at the property previously, with no detailed information available as to the current status or removal of tanks. None visually present.
19	Have polychlorinated biphenyls (PCBs) been used in electrical transformers, capacitors, or other equipment at the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
20	Is there a transformer on the property that is not owned by a public or private utility company for which there are no records indicating the absence of PCBs?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
21	Do you have any knowledge of environmental liens or government notification relating to past or recurrent violations of environmental laws with respect to the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
22	Are there currently or have there been in the past any floor drains, sumps, and/or oil-water separators on the property?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
23	If yes, to question 22, do the drains/sumps discharge to the sewer system?	<input type="checkbox"/>	<input type="checkbox"/>	
24	Are you aware of the presence of asbestos-containing materials?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
25	Are you aware of the presence of lead-based paint?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
26	Is there an asbestos and/or lead-based paint Operations & Maintenance Program in place?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
27	Has the water ever been tested for lead?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
28	Has radon testing ever been conducted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
29	Is there now or has there been evidence of mold or mildew present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
30	Are there any prior environmental investigations (Phase I ESAs, Phase II ESAs, geotechnical reports, remedial reports, etc.) available?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Phase II report from April 2017 available.
31	Please provide a brief description of the historical use of the property including construction dates, past operations, former buildings, etc.	Historical information shows property was used as a high end residence. Property is currently now vacant land.		

ASTI Environmental - Fax Number 810-225-3800 Phone Number 810-225-2800

UNIT TYPE	F L O O R S				TOTAL/TYPE
	2	3	4	5	
STUDIO	5	7	7	4	23
1 BR	12	9	9	9	39
2 BR		4	4	5	13
TOTAL/FLOOR	17	20	20	18	75 TOTAL/BLDG



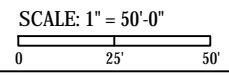
SITE: 2.85 ACRES  
PARKING 180 SPACES

5-STORY, 75 UNIT BUILDING - PHASE 1:  
57,073 GSF TOTAL (GARAGE - 14,089 GSF)  
23 STUDIO UNITS  
39 ONE-BEDRM UNITS  
13 TWO-BEDROOM UNITS

5-STORY, 75 UNIT BUILDING - PHASE 2:  
57,073 GSF  
23 STUDIO UNITS  
39 ONE-BEDRM UNITS  
13 TWO-BEDROOM UNITS

5-STORY, 75 UNIT BUILDING - PHASE 3:  
57,073 GSF  
23 STUDIO UNITS  
39 ONE-BEDRM UNITS  
13 TWO-BEDROOM UNITS

PROPOSED SITE PLAN

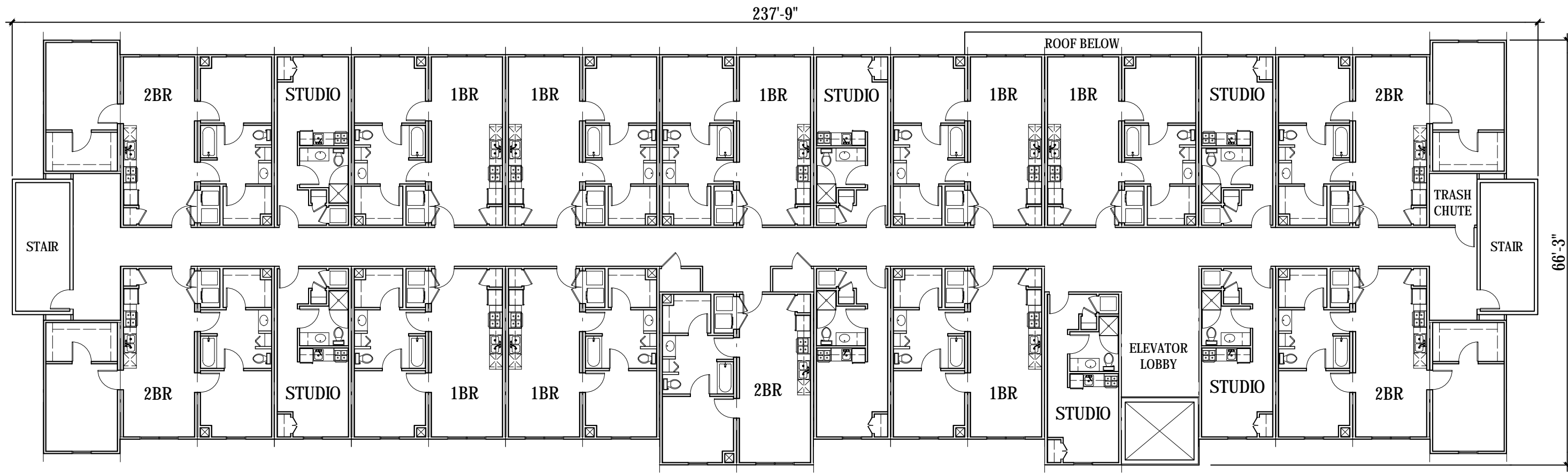


February 19, 2019 rdia: #19020 COPYRIGHT © 2019

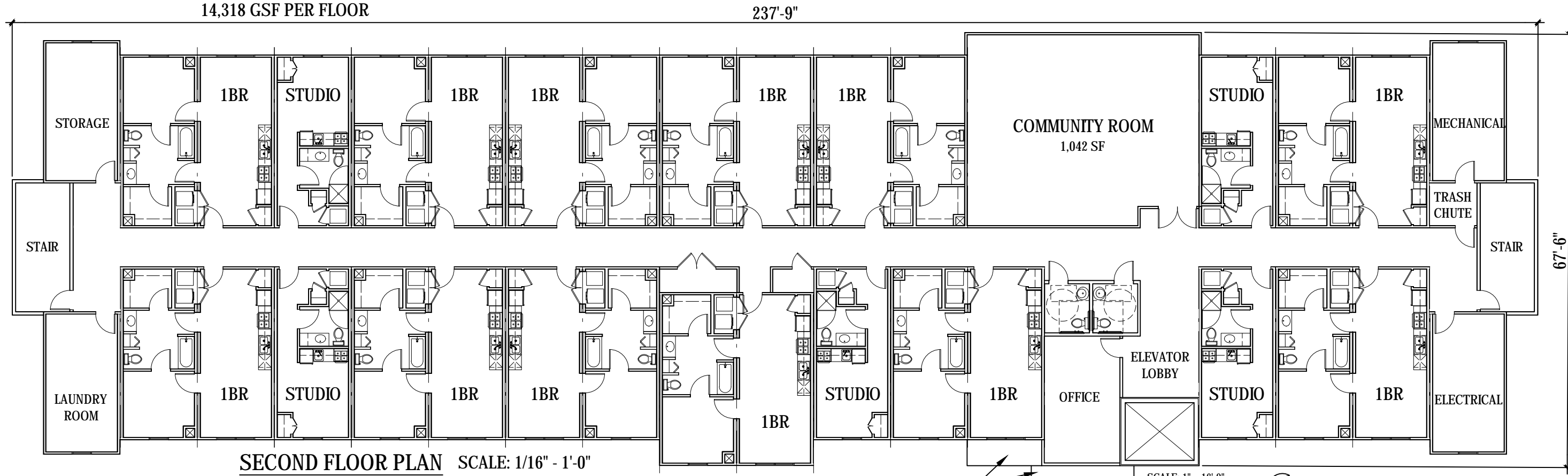
**RDL ARCHITECTS**  
16102 Chagrin Boulevard  
Shaker Heights, Ohio 44120  
T: 216-752-4300 F: 216-752-4301  
www.rdlarchitects.com

**JEFFERSON FAMILY**  
DETROIT, MICHIGAN

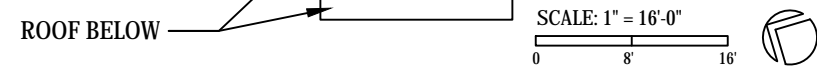
**GINOSKO DEVELOPMENT CO.**  
41800 West 11 Mile Road, Suite 209  
Novi, Michigan 48375  
Telephone: 248.513.4900 Fax: 248.513.4904



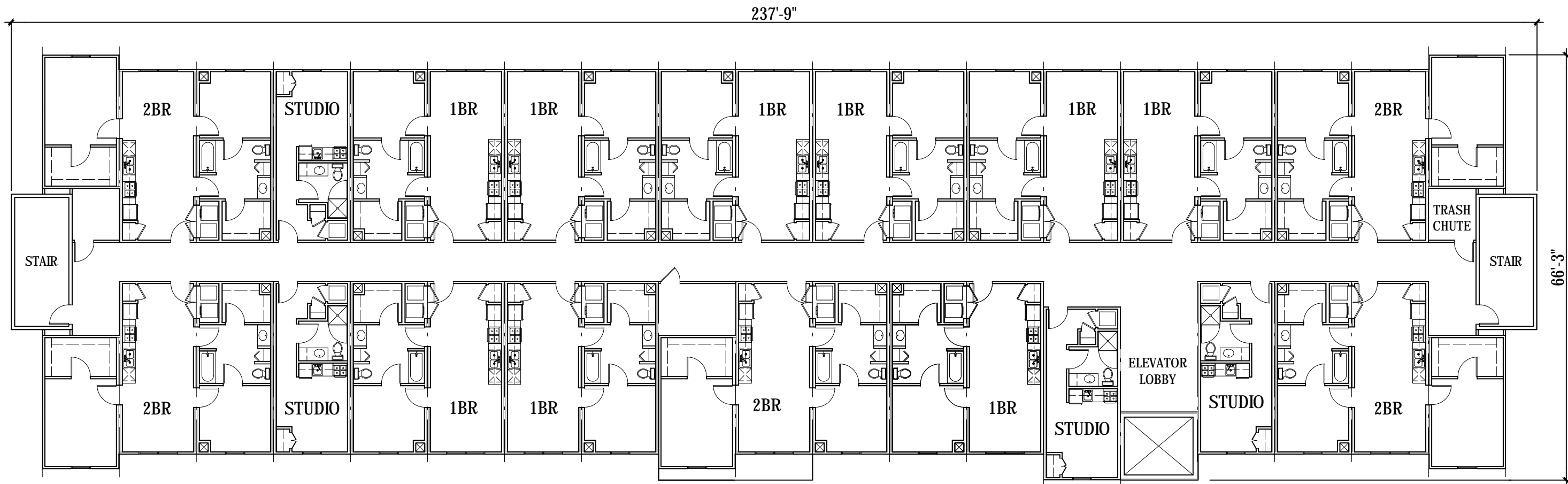
**THIRD & FOURTH FLOOR PLAN** SCALE: 1/16" = 1'-0"  
14,318 GSF PER FLOOR



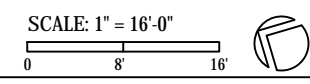
**SECOND FLOOR PLAN** SCALE: 1/16" = 1'-0"  
14,318 GSF



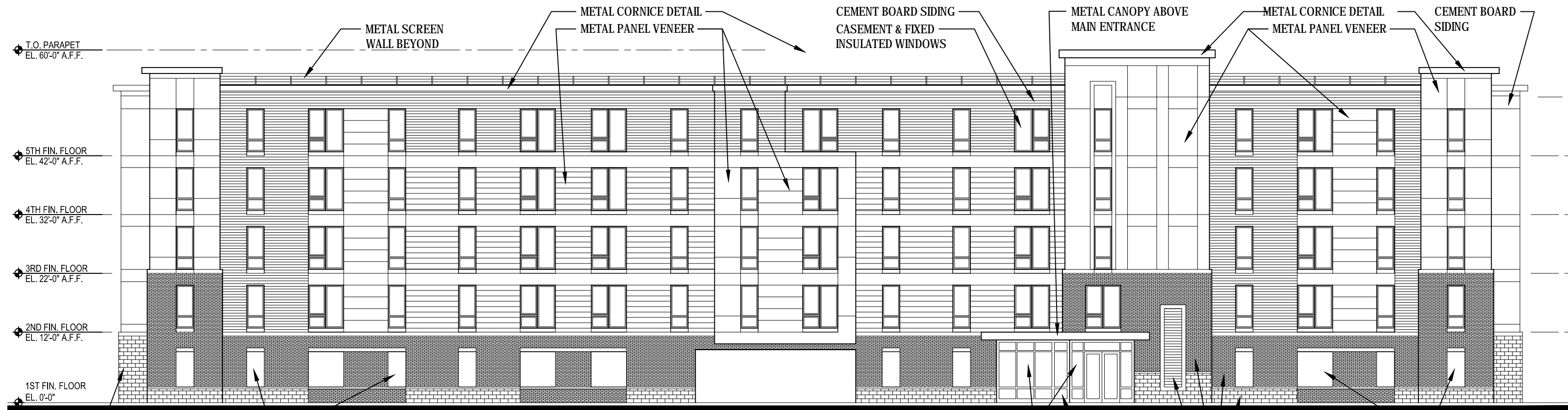
February 19, 2019 rdl: #19020 COPYRIGHT © 2019



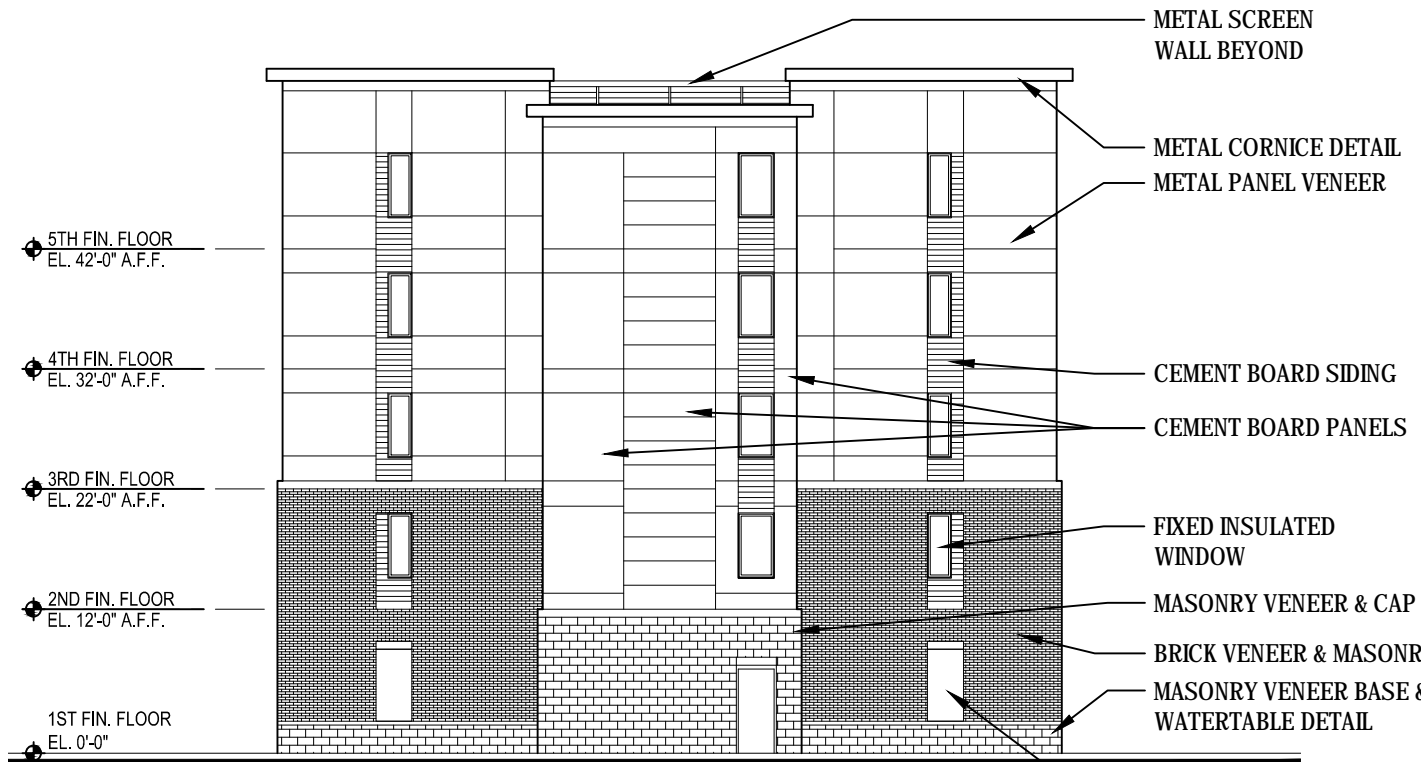
**FIFTH FLOOR PLAN** SCALE: 1/16" - 1'-0"  
14,119 GSF



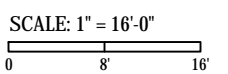
February 19, 2019 rdl: #19020 COPYRIGHT © 2019



**PROPOSED WEST ELEVATION**  
SCALE: 1/16" - 1'-0"



**PROPOSED NORTH ELEVATION**  
SCALE: 1/16" - 1'-0"



February 19, 2019 rdlia: #19020 COPYRIGHT © 2019

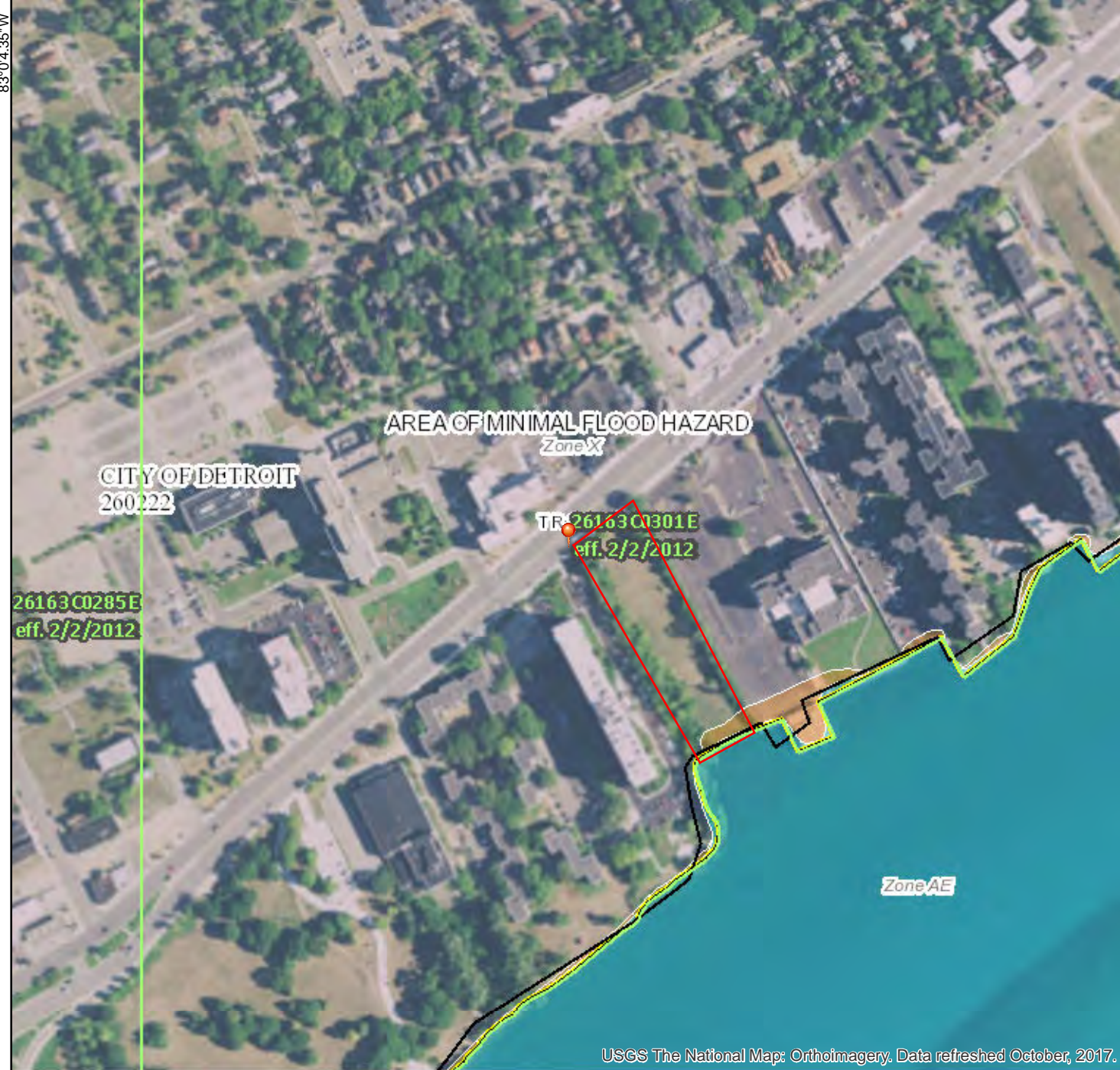
**10.7 Special Contractual Conditions Between User and Environmental Professional:** FEMA Firmette Map, National Wetlands Inventory Map, and Noise Assessment



# National Flood Hazard Layer FIRMette



42°21'15.50"N



USGS The National Map: Orthoimagery. Data refreshed October, 2017. 0 250 500 1,000 1,500 2,000 Feet 1:6,000 42°20'48.91"N

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

- |                             |  |  |
|-----------------------------|--|--|
| SPECIAL FLOOD HAZARD AREAS  |  | Without Base Flood Elevation (BFE)<br><i>Zone A, V, A99</i>  |
|                             |  | With BFE or Depth <i>Zone AE, AO, AH, VE, AR</i>   |
|                             |  | Regulatory Floodway  |
| OTHER AREAS OF FLOOD HAZARD |  | 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile <i>Zone X</i> |
|                             |  | Future Conditions 1% Annual Chance Flood Hazard <i>Zone X</i>  |
|                             |  | Area with Reduced Flood Risk due to Levee. See Notes. <i>Zone X</i>  |
|                             |  | Area with Flood Risk due to Levee <i>Zone D</i>  |
| OTHER AREAS                 |  | NO SCREEN Area of Minimal Flood Hazard <i>Zone X</i>   |
|                             |  | Effective LOMRs  |
| GENERAL STRUCTURES          |  | Area of Undetermined Flood Hazard <i>Zone D</i>  |
|                             |  | Channel, Culvert, or Storm Sewer   |
|                             |  | Levee, Dike, or Floodwall  |
| OTHER FEATURES              |  | 20.2 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                             |  | 17.5 Cross Sections with 1% Annual Chance Water Surface Elevation  |
|                             |  | Coastal Transect   |
|                             |  | Base Flood Elevation Line (BFE)  |
|                             |  | Limit of Study   |
| MAP PANELS                  |  | Jurisdiction Boundary  |
|                             |  | Coastal Transect Baseline  |
|                             |  | Profile Baseline   |
|                             |  | Hydrographic Feature   |
|                             |  | Digital Data Available   |
|                             |  | No Digital Data Available  |
|                             |  | Unmapped   |



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **1/11/2019 at 10:05:45 AM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.



the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (1990-2000).

There is a growing awareness of the need to address the needs of older people, and the Government has set out a strategy for the 21st century in the White Paper on *Ageing Better: The Government's Strategy for Older People* (Department of Health 2000).

The White Paper sets out a number of key objectives for the Government:

- to improve the health and well-being of older people;
- to improve the quality of life of older people;
- to improve the opportunities for older people to participate in society;
- to improve the support available to older people.

The White Paper also sets out a number of key principles for the Government:

- older people should be able to live independently and actively in their own homes;
- older people should be able to participate in society and contribute to it;
- older people should be able to live in good health and well-being;
- older people should be able to live in good quality housing;
- older people should be able to live in good quality care.

The White Paper also sets out a number of key actions for the Government:

- to improve the health and well-being of older people;
- to improve the quality of life of older people;
- to improve the opportunities for older people to participate in society;
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January 11, 2019

**Wetlands**

- Estuarine and Marine Deepwater
- Freshwater Emergent Wetland
- Estuarine and Marine Wetland
- Freshwater Forested/Shrub Wetland
- Freshwater Pond
- Lake
- Other
- Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

the 1990s, the number of people in the UK who are aged 65 and over has increased from 10.5 million to 13.5 million (13.5% of the population).

There are a number of reasons why the number of people aged 65 and over has increased. One of the main reasons is that people are living longer. The life expectancy at birth in the UK is now 78 years for men and 82 years for women.

Another reason is that people are having children later in life. This means that there are more people aged 65 and over who have children who are still alive.

There are also a number of reasons why the number of people aged 65 and over is expected to increase in the future. One of the main reasons is that people are expected to live even longer.

Another reason is that people are expected to have children even later in life. This means that there will be even more people aged 65 and over who have children who are still alive.

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Noise Assessment  
2.8 Acres of Vacant Land  
7850 East Jefferson Ave.  
Detroit, Michigan

GDC-East Jefferson, LLC

January 9, 2019

ASTI ENVIRONMENTAL



Noise Assessment  
2.8 Acres of Vacant Land  
7850 East Jefferson Ave.  
Detroit, Michigan

January 9, 2019

**Report Prepared For:**

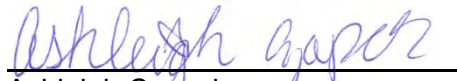
GDC-East Jefferson, LLC  
41800 W. 11 Mile Rd. Suite 209  
Novi, Michigan 48375

**Report Prepared By:**

ASTI Environmental  
10448 Citation Drive, Suite 100  
Brighton, Michigan 48116  
800-395-ASTI

**ASTI Project No. 1-10105**

Report Prepared by:

  
\_\_\_\_\_  
Ashleigh Czapek  
Associate I

Report Reviewed by:

  
\_\_\_\_\_  
Anthony Spencer, EP  
Associate II



## TABLE OF CONTENTS

<u>Section</u>	<u>Page</u>
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2.0 Evaluation of Noise Sources	3
2.1 Airports	3
2.2 Busy Roadways	3
2.3 Railroads	3
2.4 Non-Transportation Sources	3
3.0 Calculations	4
4.0 Conclusions	5
5.0 References	6

### ATTACHMENTS

- A** NAL Location Map
- B** Airport Noise Contour Map
- C** AADT Information
- D** Day-Night Level Electronic Assessment

## 1.0 INTRODUCTION

GDC-East Jefferson, LLC proposes a new construction project utilizing funding provided from the Michigan State Housing Development Authority (MSHDA). The project is located on 2.8 acres of vacant land at 7850 E. Jefferson Ave., Detroit, Michigan, referred to herein as "Subject Property".

This assessment was conducted to provide the noise level and associated noise category at each designated Noise Assessment Location (NAL) at the Subject Property. This assessment does not include an evaluation of noise attenuation but general guidance is provided at the end of this assessment.

This evaluation was conducted per guidelines set forth in 24 CFR 51B. This noise analysis evaluates the Subject Property's exposure to three major sources of noise: aircraft, roadways, and railways. If identified, additional non-transportation noise sources such as loud impulse sounds from nearby industry are also evaluated.

The following three sources of transportation noise and their applicable search distances are outlined below when evaluating noise at a site.

1. Aircraft - All military and FAA-regulated civil airfields within 15 miles of the Subject Property.
2. Roadways - Major roadways and limited access highways/freeways within 1,000 feet of the Subject Property utilizing a 10-year projection. Roadways considered are generally based on number of lanes, speed limit, presence of stop signs or lights, overall traffic counts, and/or number of medium or heavy trucks.
3. Railroad - All active railroads within 3,000 feet of the Subject Property.

The noise level calculated at a NAL is known as the day-night average sound level or DNL. A calculated DNL can fall within three categories as follow.

1. Acceptable - DNL not exceeding 65 decibels (dB)
2. Normally Unacceptable - DNL above the 65 dB threshold but not exceeding 75 dB
3. Unacceptable - DNL above 75 dB



One NAL (NAL #1) was selected on the Subject Property for this analysis based on proximity to noise sources. A map with the Subject Property boundaries and NAL location is included as Attachment A.

The following is a summary of the applicable noise sources identified at the NAL.

NAL #1

<b>Noise Source with Applicable Distance</b>	<b>Name</b>	<b>Distance to NAL</b>
Airport(s)	Coleman A Young International Airport	3.74 miles
	Windsor International Airport	5.22 miles
Busy Road(s)	E. Jefferson Ave.	65 feet
Railroad(s)	None	NA
Non-Transportation	None	NA

## **2.0 EVALUATION OF NOISE SOURCES**

### **2.1 Airports**

Coleman A. Young International Airport is approximately 3.74 miles distant. Based on the Noise Contour Map for the airport (Attachment B), the site is not within a distance of concern.

Windsor International Airport is approximately 5.22 miles distant. Based on the Noise Contour Map for the airport (Attachment B), the site is not within a distance of concern.

Other small airfields were identified within 15 miles but these airfields have no commercial traffic and are not likely FAA-regulated. They are not considered to represent a noise concern.

### **2.2 Busy Roadways**

The major roadway is:

- E. Jefferson Ave.

E. Jefferson Ave. is an 8-lane road with a center turn lane. E. Jefferson Ave. is a main transportation route into the city of Detroit. The roadway is an approximate effective distance of 65 feet from the Subject Property (NAL #1). Traffic counts for Woodward Ave. were obtained through the Southeast Michigan Council of Government (SEMCOG). Projections were done through 2029. A compounded growth rate of 1% per year was judged appropriate as traffic levels are expected to remain relatively stable. Traffic projections are included in Attachment C. Noise levels from the applicable roadways at NAL #1, as predicted in 2029, were within the Normally Unacceptable range per HUD/MSHDA standards.

### **2.3 Railroads**

Not applicable.

### **2.4 Non-Transportation Sources**

Not applicable.

### **3.0 CALCULATIONS**

A Noise DNL calculator worksheet for the NAL is provided in Appendix D.

Using the HUD DNL calculator, the noise level at NAL #1, as predicted in 2028, is calculated to be 74.4 dB and within the Normally Unacceptable range.

#### 4.0 CONCLUSIONS

The following is a summary of the findings of this assessment.

NAL #	Combined Source DNL (dB)	Category
1	74.4	Normally Unacceptable

## 5.0 REFERENCES

- 24 CFR Part 51 Subpart B
- The Noise Guidebook, U.S. Department of Housing and Urban Development,
- U.S. DOT
- <https://maps.semcog.org/TrafficVolume/>
- <https://www.hudexchange.info/programs/environmental-review/dnl-calculator/>

## HUD ATTENUATION GUIDANCE

<https://www.hudexchange.info/programs/environmental-review/noise-abatement-and-control/>

All sites whose environmental or community noise exposure exceeds the day night average sound level (DNL) of 65 decibels (dB) are considered noise-impacted areas. For new construction that is proposed in high noise areas, grantees shall incorporate noise attenuation features to the extent required by HUD environmental criteria and standards contained in Subpart B (Noise Abatement and Control) of 24 CFR Part 51. The interior standard is 45 dB.

The "Normally Unacceptable" noise zone includes community noise levels from above 65 dB to 75 dB. Approvals in this noise zone require a minimum of 5 dB additional sound attenuation for buildings having noise-sensitive uses if the day-night average sound level is greater than 65 dB but does not exceed 70 dB, or a minimum of 10 dB of additional sound attenuation if the day-night average sound level is greater than 70 dB but does not exceed 75 dB.

Locations with day-night average noise levels above 75 dB have "Unacceptable" noise exposure. For new construction, noise attenuation measures in these locations require the approval of the Assistant Secretary for Community Planning and Development (for projects reviewed under Part 50) or the Responsible Entity's Certifying Officer (for projects reviewed under Part 58). The acceptance of such locations normally requires an environmental impact statement.

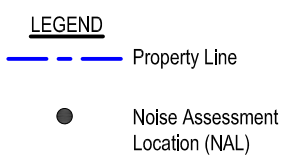
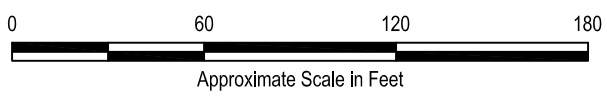
The environmental review record should contain **one** of the following:

- Documentation the proposed action is not within 1000 feet of a major roadway, 3,000 feet of a railroad, or 15 miles of a military or FAA-regulated civil airfield.
- If within those distances, documentation showing the noise level is *Acceptable* (at or below 65 DNL).
- If within those distances, documentation showing that there's an effective noise barrier (i.e., that provides sufficient protection).

- Documentation showing the noise generated by the noise source(s) is *Normally Unacceptable* (66 – 75 DNL) and identifying noise attenuation requirements that will bring the interior noise level to 45 DNL and/or exterior noise level to 65 DNL.

Attachment A  
NAL Location Map





7850 E. Jefferson Ave.

Detroit, MI

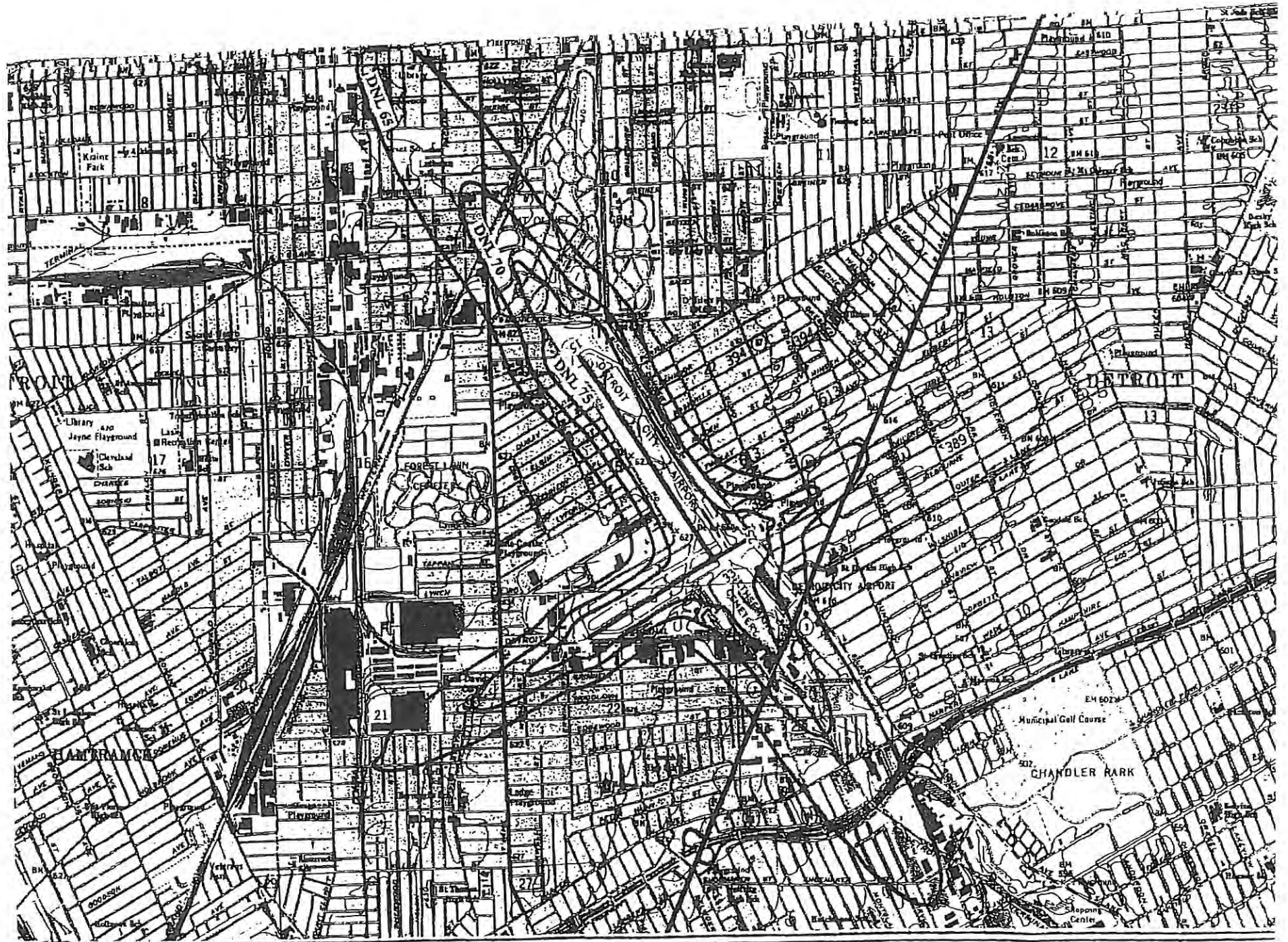


Created for: GDC East Jefferson, LLC  
 ASTI Project 1-10105, MPM, January 10, 2019

Noise Assessment Location (NAL) Map

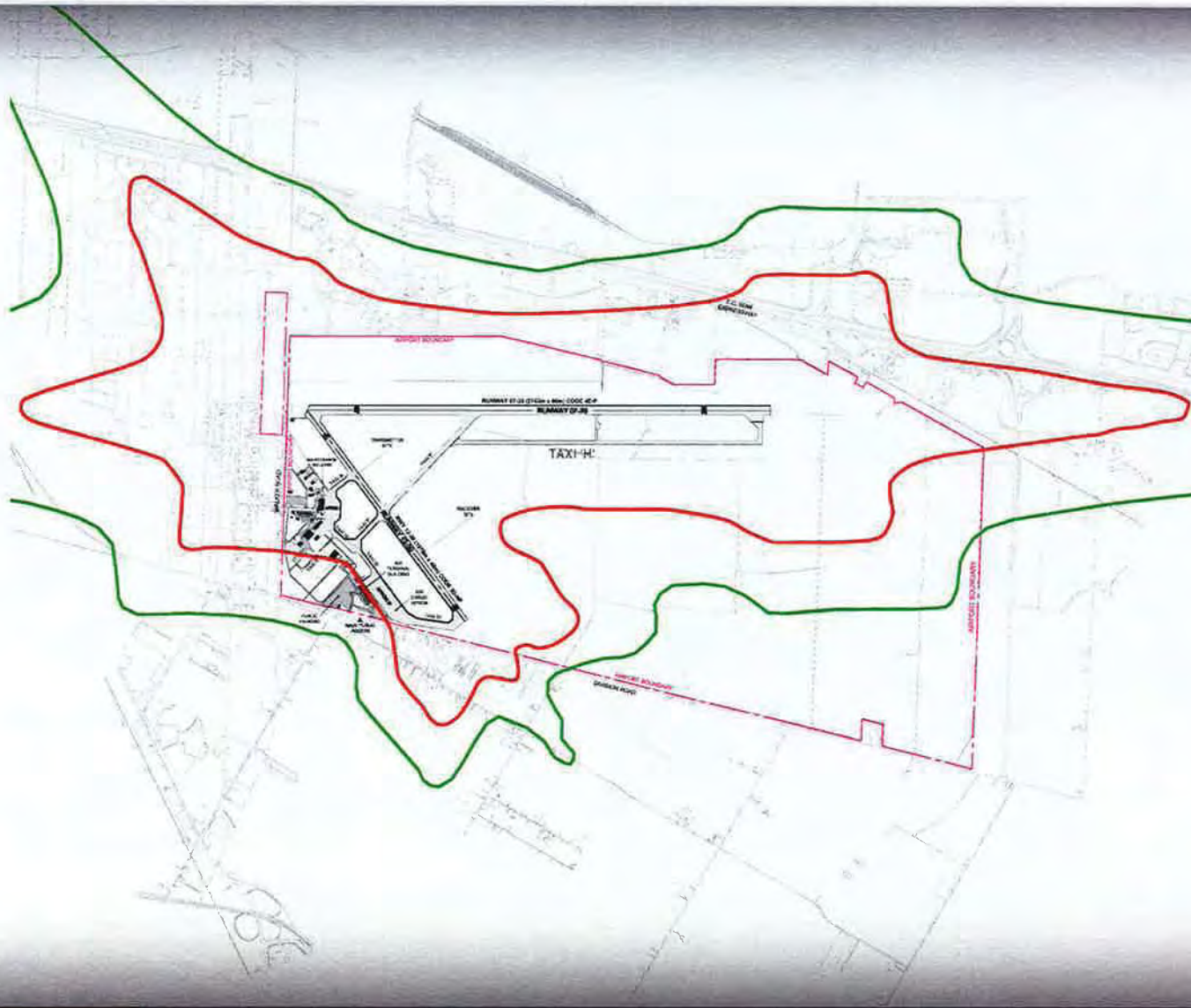
# Attachment B

## Airport Noise Contour Maps



CITY OF DETROIT  
 AIRPORT DEPARTMENT

1996 BAS 'E  
 NOISE EXPOSURE CONTOURS



**WINDSOR AIRPORT  
MASTER PLAN**

**FIGURE 3-4 - AIRPORT NOISE  
EXPOSURE FORECAST CONTOURS**

- 30 NEF (NOISE EXPOSURE FORECAST)
- 25 NEF

**Notes**

- 1. Conceptual Layout
- 2. All dimensions approximate
- 3. Noise Exposure Forecast provided by Windsor Airport Management

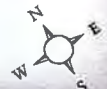


Base data provided by City of Windsor Official Plan  
Map created by EDH  
Map checked by EGL

File Location: \\20dillon.dillon.ca\toronto\data\PROJECTS\DRAFT\09\092665 Windsor Airport Master Plan

Map Projection: n/TAXI 'H'

Project #: 09-2665  
Status: n/a  
Date: December 2010



Attachment C  
AADT Information

## Auto and Heavy Truck 10-year ADT Projections

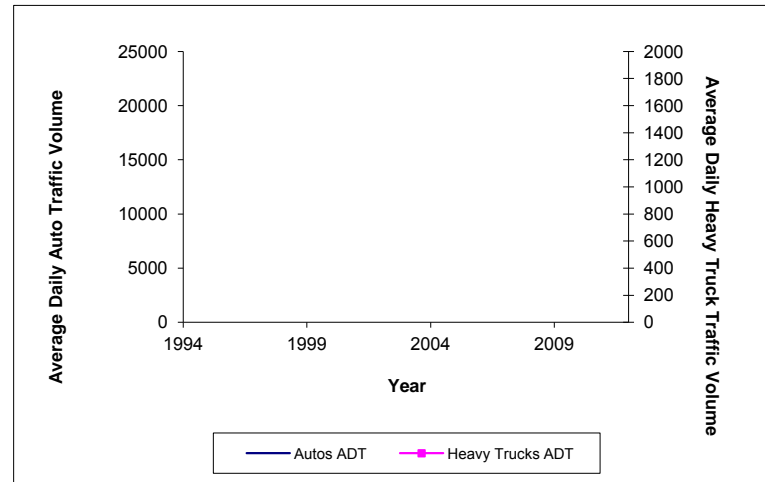
East Jefferson

	Cars	% Change	Trucks	% Change
2016	21528		1872	
	Avg % change:	#DIV/0!	Avg % change:	#DIV/0!
	Avg % change (Last 5-yr Trend):	#DIV/0!	Avg % change (Last 5-yr Trend):	#DIV/0!
	% Change/Year Assumption	1	%/Year Change Assumption	1

2028 Projections

	Cars	Trucks
2016	21528	1872
2017	21743	1891
2018	21961	1910
2019	22180	1929
2020	22402	1948
2021	22626	1967
2022	22852	1987
2023	23081	2007
2024	23312	2027
2025	23545	2047
2026	23780	2068
2027	24018	2089
2028	24258	2109
2029	24501	2131

Predicted 2028 Auto ADT	Predicted 2028 Truck ADT
24501	2131



# Attachment D

## Day-Night Level Electronic Assessments

### Notice (/site-wide-banners/notice/)

Due to the lapse in Congressional Appropriations for Fiscal Year 2019, the U.S. Department of Housing and Urban Development (HUD) is closed. This website is supported by a cooperative agreement funded under a prior appropriation. Current functions will remain operational but no new functions will be added during the lapse in appropriations. For more information, see **HUD Contingency Plan for Possible Lapse in Appropriations** (<https://www.hud.gov/sites/documents/HUDCONTINGENCYPLANFINAL.PDF>).

[Home \(/\)](#) > [Programs \(/programs/\)](#) > [Environmental Review \(/programs/environmental-review/\)](#) > DNL Calculator

## DNL Calculator

**WARNING:** HUD recommends the use of Microsoft Internet Explorer for performing noise calculations. The HUD Noise Calculator has an error when using Google Chrome unless the cache is cleared before each use of the calculator. HUD is aware of the problem and working to fix it in the programming of the calculator.

The Day/Night Noise Level Calculator is an electronic assessment tool that calculates the Day/Night Noise Level (DNL) from roadway and railway traffic. For more information on using the DNL calculator, view the [Day/Night Noise Level Calculator Electronic Assessment Tool Overview \(/programs/environmental-review/daynight-noise-level-electronic-assessment-tool/\)](#).

## Guidelines

- To display the Road and/or Rail DNL calculator(s), click on the "Add Road Source" and/or "Add Rail Source" button(s) below.
- All Road and Rail input values must be positive non-decimal numbers.
- All Road and/or Rail DNL value(s) must be calculated separately before calculating the Site DNL.
- All checkboxes that apply must be checked for vehicles and trains in the tables' headers.
- **Note #1:** Tooltips, containing field specific information, have been added in this tool and may be accessed by hovering over all the respective data fields (site identification, roadway and railway assessment, DNL calculation results, roadway and railway input variables) with the mouse.
- **Note #2:** DNL Calculator assumes roadway data is always entered.

## DNL Calculator

<b>Site ID</b>	1-10105
<b>Record Date</b>	01/09/2019
<b>User's Name</b>	ACTIVE ...



AS II Environmental NALI

Road # 1 Name: **E Jefferson**

**Road #1**

Vehicle Type	Cars <input checked="" type="checkbox"/>	Medium Trucks <input checked="" type="checkbox"/>	Heavy Trucks <input checked="" type="checkbox"/>
Effective Distance	65	65	65
Distance to Stop Sign			
Average Speed	35	35	35
Average Daily Trips (ADT)	24501	1066	1065
Night Fraction of ADT	15	15	15
Road Gradient (%)			2
Vehicle DNL	66.4902	62.8759	73.3047
<b>Calculate Road #1 DNL</b>	74.4649	Reset	

Add Road Source

Add Rail Source

Airport Noise Level

Loud Impulse Sounds?

Yes  No

Combined DNL for all Road and Rail sources

**74.4649**

Combined DNL including Airport

N/A

Site DNL with Loud Impulse Sound

**Calculate**

## Mitigation Options

If your site DNL is in Excess of 65 decibels, your options are:

- **No Action Alternative:** Cancel the project at this location
- **Other Reasonable Alternatives:** Choose an alternate site
- **Mitigation**
  - Contact your Field or Regional Environmental Officer (</programs/environmental-review/hud-environmental-staff-contacts/>)
  - Increase mitigation in the building walls (only effective if no outdoor, noise sensitive areas)
  - Reconfigure the site plan to increase the distance between the noise source and noise-sensitive uses
  - Incorporate natural or man-made barriers. See *The Noise Guidebook* (</resource/313/hud-noise-guidebook/>)
  - Construct noise barrier. See the **Barrier Performance Module** (</programs/environmental-review/bpm-calculator/>)

## Tools and Guidance

Day/Night Noise Level Assessment Tool User Guide (</resource/3822/day-night-noise-level-assessment-tool-user-guide/>)

Day/Night Noise Level Assessment Tool Flowcharts (</resource/3823/day-night-noise-level-assessment-tool-flowcharts/>)

**10.8 Qualifications of the Environmental Professional(s):** Resume of EP(s)  
and Additional Staff

# RESUME

ASTI ENVIRONMENTAL



## ASHLEIGH CZAPEK Associate I/Architectural Historian

---

### PROFILE

#### Certifications

36 CFR Part 61 Qualified as an Architectural Historian  
HUD 3-day CFR24 Part 58 Environmental Review Process Training, 2017  
40-Hour HAZWOPER training as per 29 CFR 1910.120(e)

#### Education

Eastern Michigan University, M.S. Historic Preservation 2016  
Western Michigan University, B.S. Psychology 2008

#### Experience History

Associate I, Property Services Group, ASTI Environmental  
Graduate Assistant, Michigan State Historic Preservation Office

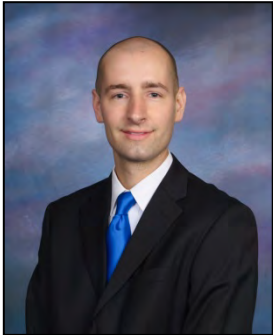
#### Professional Background

Ms. Czapek has experience researching, writing and reviewing Section 106 SHPO applications. She has contributed to a number of National Register of Historic Places nominations, as well as researching and writing the National Register of Historic Places Nomination for the Glaister House in Lansing, MI. She also prepares Phase I Environmental Site Assessment reports, Transaction Screen Reports, Environmental Assessments, Environmental Review Records, Statutory Checklists and other NEPA related documents.

**Years Experience:**            1 - ASTI  
   2 - GOVERNMENT

# RESUME

ASTI ENVIRONMENTAL



**ANTHONY LLOYD SPENCER**  
Associate II

---

## PROFILE

### Certifications/Training

Environmental Professional (AAI)  
40-Hour OSHA HAZWOPER Training  
HUD Basic Environmental Training, August 2012

### Education and Training

Wayne State University, B.S., Environmental Science, Minor, Geology, May 2011

### Experience History

Associate II, Property Service Group, ASTI ENVIRONMENTAL  
Research Assistant, Ohio State University, School of Environment and Natural Resources  
Research Assistant, Wayne State University, Department of Biology

### **Professional Background**

Mr. Spencer specializes in Phase I environmental site assessments (ESAs). He has completed ESAs for residential, commercial, and industrial sites. He has experience working in Michigan, Ohio, Kentucky, Oklahoma, Pennsylvania, and North Carolina. Work has included vacant land, apartment complexes, residential scattered lots, former plating facilities, print shops, landfills, auto garages, gasoline stations, and schools. The property evaluations have included site inspections, historical research, and contact with federal, state, and local agencies. Mr. Spencer also has experience assisting with Phase II ESA sampling and report preparation, noise assessments, NEPA reporting, HUD narratives, and SHPO consultation.

Mr. Spencer has also conducted tree identification and timber cruising for the U.S. Fish & Wildlife Service in Michigan's Upper Peninsula.

### **Years Experience:**

6 --- ASTI  
2 --- other agencies

**10.9 MSHDA Phase I Letter of Reliance**

February 21, 2018

**PRIVILEGED AND CONFIDENTIAL**

Mr. Dan Lince  
Environmental Manager  
Rental Development Division  
Michigan State Housing Development Authority  
735 E. Michigan Avenue  
Lansing, Michigan 48912

RE: Phase I ESA for: 2.8 Acres of Vacant Land, 7850 E. Jefferson Ave., Detroit, MI, ASTI  
Project 1-10105 dated February 21, 2019

Dear Mr. Lince:

Please find enclosed the Phase I Environmental Site Assessment (ESA) for the subject property dated February 21, 2019 to the Michigan State Housing Development Authority.

It is my understanding that the information contained in the Phase I Environmental Site Assessment will be used by the Authority in considering proposed financing of residential development of the subject property and, furthermore, that the Authority may rely upon the Phase I Environmental Site Assessment as if it was issued to the Authority.

I **represent** that the attached is a true, correct and complete copy of the Phase I Environmental Site Assessment for the above captioned property and that the report represents my professional opinion of the site as of this date and that I meet the definition of an Environmental Professional as defined in Section 312.10 of 40 CFR 312. I also **represent** that the Phase I Environmental Site Assessment including the evaluation, recommendations, and conclusions as of this date has been performed in conformance with the scope and limitations of the ASTM Practice E 1527-13, ASTM Practice E 2600-15, and MSHDA's Environmental Review Requirements for 2018.

Sincerely,

ASTI Environmental



Anthony Spencer, EP  
Associate II

**10.10 Copy of Environmental Professional Insurance Certificate**





# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

7/25/2018

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> Daly Merritt Insurance 3099 Biddle Avenue Wyandotte MI 48192		<b>CONTACT NAME:</b> Sandy Watterson <b>PHONE (A/C. No. Ext):</b> (734) 283-1400 <b>FAX (A/C. No):</b> (734) 283-1197 <b>E-MAIL ADDRESS:</b> sandy.watterson@dalymeritt.com	
		<b>INSURER(S) AFFORDING COVERAGE</b>	
		<b>NAIC #</b>	
		INSURER A: Westchester Surplus Lines 10172	
		INSURER B: Cincinnati Insurance Co. 10677	
		INSURER C: Accident Fund Ins. Co. of Am. 10166	
		INSURER D:	
		INSURER E:	
		INSURER F:	

**COVERAGES**

CERTIFICATE NUMBER: CL1872515507

REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> <b>COMMERCIAL GENERAL LIABILITY</b> <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:			G24038002 011	8/6/2018	8/6/2019	EACH OCCURRENCE \$ 1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 1,000,000 GENERAL AGGREGATE \$ 2,000,000 PRODUCTS - COMP/OP AGG \$ 2,000,000 Employee Benefits \$ 1,000,000
B	<b>AUTOMOBILE LIABILITY</b> <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> ALL OWNED AUTOS <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS <input checked="" type="checkbox"/> NON-OWNED AUTOS			EBA0159852	8/6/2018	8/6/2019	COMBINED SINGLE LIMIT (Ea accident) \$ 1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ Uninsured motorist combined \$ 1,000,000
A	<input type="checkbox"/> <b>UMBRELLA LIAB</b> <input type="checkbox"/> OCCUR <input checked="" type="checkbox"/> <b>EXCESS LIAB</b> <input type="checkbox"/> CLAIMS-MADE DED RETENTION \$			G24038014 011	8/6/2018	8/6/2019	EACH OCCURRENCE \$ 7,000,000 AGGREGATE \$ 7,000,000
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b> ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N	N/A	WCV8009416	8/6/2018	8/6/2019	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000
A	<b>Contractors Pollution Professional Liability</b>			G24038002 011	8/6/2018	8/6/2019	Ea Poll Condition/Gen Agg \$1M/\$2M Each Claim/Gen Agg \$1M/\$2M

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Michigan State Housing Development Authority is named as Additional Insured, ATIMA.

**CERTIFICATE HOLDER****CANCELLATION**

Michigan State Housing Development Authority  
 735 East Michigan Avenue  
 Lansing, MI 48909

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

Wally Merritt/SWATTE

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## **TAB ATTACHMENTS**

1. Phase I ESA, NHT Consulting, 9-11-07
2. Phase II ESA, NHT Consulting, 10-12-07
3. Limited Subsurface Investigation, ASTI Environmental, 4-25-17
4. Due Care Memo, ASTI Environmental, 5-3-17

**ASTI ENVIRONMENTAL**  
**ENVIRONMENTAL INVESTIGATION, REMEDIATION, COMPLIANCE AND**  
**RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.**

**OUR SERVICES INCLUDE:**

- **ASBESTOS, LEAD, MOLD, AND RADON ASSESSMENTS**
- **BROWNFIELD/GREYFIELD REDEVELOPMENT ASSISTANCE**
- **DEVELOPMENT INCENTIVES AND GRANT MANAGEMENT**
- **ECOLOGICAL ASSESSMENTS AND RESTORATION**
- **ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS**
- **ENVIRONMENTAL OPPORTUNITIES ASSESSMENT**
- **GIS MAPPING**
- **HAZARD MITIGATION PLANNING**
- **MINING AND RECLAMATION ASSISTANCE**
- **REMEDIATION IMPLEMENTATION, OPERATION AND MAINTENANCE**
- **PHASE I ESA AND ENVIRONMENTAL DUE DILIGENCE ASSESSMENTS**
- **REGULATORY COMPLIANCE AND PERMITTING**
- **SOIL AND GROUNDWATER ASSESSMENTS**
- **SOIL AND GROUNDWATER REMEDIATION**
- **STORAGE TANK COMPLIANCE AND CLOSURE**
- **THREATENED AND ENDANGERED SPECIES SURVEYS**
- **WATERSHED AND STORMWATER MANAGEMENT PROGRAMS**
- **WETLAND DELINEATION, PERMITTING, MITIGATION AND BANKING**

**Attachment B**

**Limited Subsurface Investigation, April 25, 2017**

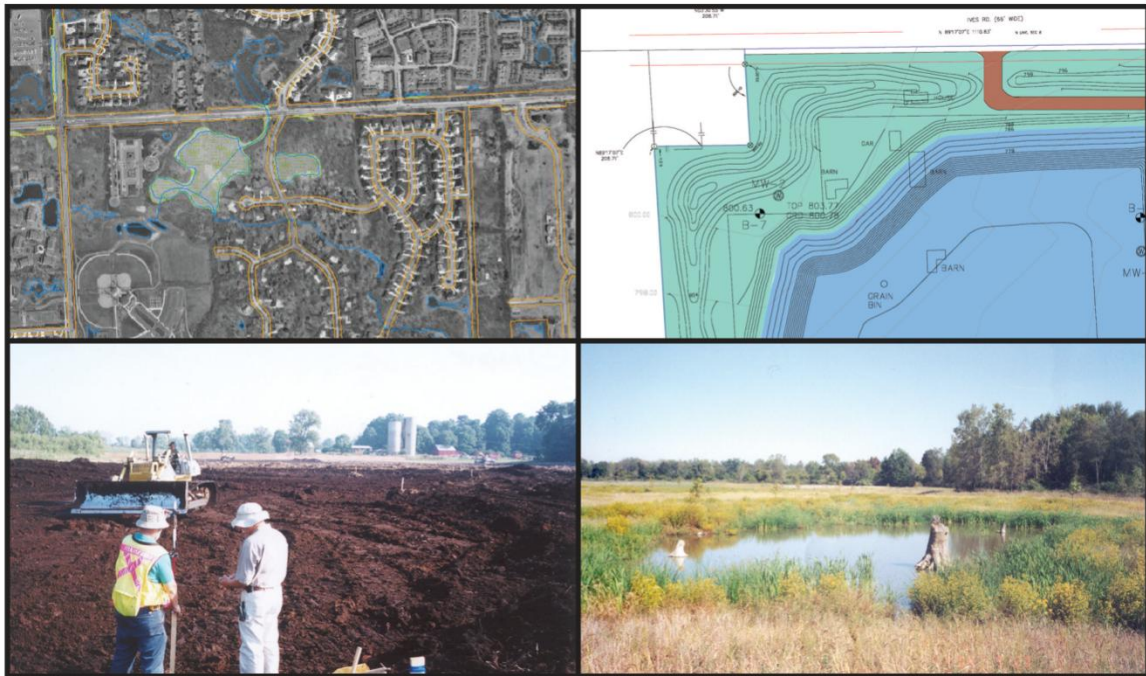
# Limited Subsurface Investigation

7850 E. Jefferson Avenue  
Detroit, Michigan

Shamrock Acquisitions, LLC

April 25, 2017

ASTI ENVIRONMENTAL



# Limited Subsurface Investigation

7850 E. Jefferson Avenue  
Detroit, Michigan

April 25, 2017

## Prepared For:

Shamrock Acquisitions, LLC  
13910 Simone Drive  
Shelby Township, MI 48315

## Report Prepared By:

ASTI Environmental  
10448 Citation Drive, Suite 100  
Brighton, Michigan 48116  
(810) 225-2800

**ASTI Project No. 10105**

Report Prepared by:



---

Jeremy Efras, EP, CPG  
Environmental Geologist

Report Reviewed by:



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Brian Kuberski, EP  
Associate III



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- 1 Site Location Map
- 2 Soil Boring Location Map

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- 1 Summary of Soil Sample Analytical Results

### ATTACHMENTS

- A Site Photographs
- B Soil Boring Logs
- C Analytical Laboratory Results and Chain-of-Custody Documentation

## **1.0 INTRODUCTION**

ASTI Environmental (ASTI) was retained by Shamrock Acquisitions, LLC to conduct a Limited Subsurface Investigation (LSI) of the property located at 7850 E. Jefferson Avenue in the City of Detroit, Wayne County, Michigan (Property). This LSI was prepared for the benefit of Shamrock Acquisitions, LLC and ASTI acknowledges that this party may rely upon the contents and conclusions presented in this report. The Property is located on the south side of E. Jefferson Avenue and approximately 580 feet east of Baldwin Street in the City of Detroit. The Property comprises approximately 2.75 acres of land and is identified as Parcel No. 17000017. A Site Location Map is provided as Figure 1.

The site investigation was conducted in accordance with ASTI's Proposal dated March 30, 2017.



## **2.0 PURPOSE AND PROPERTY HISTORY AND INFORMATION**

### **2.1 Purpose**

ASTI was provided with a Phase II ESA report completed at the Property by NTH Consultants, LTD (NTH) on October 12, 2007. The Phase II ESA was conducted to evaluate the following recognized environmental conditions (RECs) identified in NTH's Phase I ESA of the Property dated September 11, 2007.

- The Property formerly contained several structures, at least one of which had a basement. No information was available regarding the nature or source of the fill materials used to fill in the basements of the former structure(s).
- Review of available historical sources indicated that two storage tanks were present at the Property with no detailed information available as to the current status or removal of the tanks.
- Review of available historical sources indicated that the southern 1/3 of the Property was filled in sometime in the late 1800s or 1900s. In addition, fill soils containing debris were encountered during NTH's concurrent geotechnical investigation. No information was available as to the nature or source of the fill materials.

The Phase II ESA identified arsenic, chromium, and mercury in soil at concentrations above the Michigan Department of Environmental Quality's (MDEQ)'s Part 201 generic residential cleanup criteria (GRCC) for drinking water protection and groundwater surface water interface protection criteria. The Property was determined to be a "*facility*" as defined in Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). Based on the results of the Phase II ESA, NTH conducted a Baseline Environmental Assessment (BEA) of the Property in January 2008, which was affirmed on February 1, 2008. A Geophysical Survey was also conducted during the Phase II ESA and no underground storage tanks were identified.

The purpose of this LSI was to determine the current condition of the Property based on the RECs and potential due care obligations.

### **2.2 Historic Uses of the Property**

Based on research, the Property contained a residential dwelling and outbuildings by 1888. The southern portion of the Property was filled in sometime in the late 1800's or early

1900's. By 1935 the northern portion of the Property contained a clubhouse building identified as the Colony Town Club and the southern portion of the Property contained a residential dwelling and associated outbuildings. By the mid 1940's the northern portion of the property was developed with a building used as a hospital and as a youth home. The Property has remained vacant since approximately 1977.

### **2.3 Current Uses of the Property**

The Property is currently vacant with no obvious usage.

### **2.4 Existing Infrastructure Features**

No structures are located at the Property. Utilities available to the Property include potable water, storm water, and sewer through the City of Detroit. Electric and natural gas services are available through DTE Energy.

### 3.0 SOIL BORING LOCATIONS

On April 7, 2017, ASTI advanced five soil borings (SB-1 through SB-5) at the Property using a direct-push Geoprobe® drill rig. The soil boring locations were spread out in a north-northwest/south-southeast orientation across the Property with two of the borings (SB-4 and SB-5) located within the filled in former riverbed on the southeastern portion of the Property. A soil sample was collected from each soil boring location for a total of five samples. A Sample Location Map is provided as Figure 2. Photographs of the completion of the soil borings are included as Attachment A. Boring/sample ID, boring/sample locations, and depth were as follows.

<b>Boring/Sample ID</b>	<b>Boring/Sample Location</b>	<b>Depth of Boring</b>
SB-1	Northwestern portion of the Property in regard to deposition of fill material	16 feet
SB-2	Central portion of the Property in regard to deposition of fill material	16 feet
SB-3	Central portion of the Property in regard to deposition of fill material	16 feet
SB-4	Southern portion of the Property within the area of a historical riverbed	16 feet
SB-5	Southern portion of the Property within the area of a historical riverbed	16 feet

#### 4.0 SAMPLE COLLECTION PROCEDURES

The soil borings were advanced to 16 feet below ground surface (bgs) with a track-mounted, direct-push Geoprobe®. All down-hole equipment was decontaminated using an Alconox® wash and clean water rinse between borings to minimize the risk of cross contamination of samples. Soil encountered during field activities was characterized by ASTI's field personnel, examined for visual and/or olfactory evidence of impact, screened using a photoionization detector (PID), and recorded in a field logbook. Prior to sampling, the PID was calibrated to manufacturer specifications using 100 parts per million (ppm) isobutylene calibration gas. No PID readings were encountered in the field above 0 ppm as indicated in the soil boring logs provided as Attachment B.

All soil samples were collected into laboratory certified clean 4-ounce glass jars for analysis of 10 Michigan metals (arsenic, barium, cadmium, copper chromium, lead, mercury, selenium, silver, and zinc) and polynuclear aromatic hydrocarbons (PNAs), and 40-ml glass vials preserved in the field with methanol for volatile organic compounds (VOCs) analysis. All samples were cooled to 4°C, and submitted to Merit Laboratories, Inc. in East Lansing, Michigan under standard chain of custody procedures.

Soil were submitted for analysis of VOCs by US EPA Method 8260C, PNAs by US EPA Method 8270D, 10 Michigan metals by US EPA Method 7471B and/or 6020A.

Sample depth, location rationale, and analysis are provided in the following table.

Boring	Sample Matrix	Sample Depth	Rationale for sample location	Analysis
SB-1	Soil	0.5-1.5'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & 10 Michigan metals
SB-2	Soil	6.5-7.5'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & 10 Michigan metals
SB-3	Soil	9-10'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & 10 Michigan metals
SB-4	Soil	7-8'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & 10 Michigan metals
SB-5	Soil	5-6'	Presence of fill material with debris within sampling interval	VOCs, PNAs, & 10 Michigan metals

## **5.0 SOIL AND GROUNDWATER CHARACTERISTICS**

The following sections describe the encountered soil and groundwater conditions during the investigation.

### **5.1 Soil**

The subsurface lithology encountered in the soil borings, underlying surface cover (topsoil), generally consisted of fill materials varying in composition from sand to silty-clay and extended to depths between 4 feet and 13 feet bgs. The fill materials in SB-1 through SB-4 each contained varying amounts of debris consisting of brick, concrete, foundry sand, and slag. A native silty-clay stratum was encountered under the fill materials and extended to the explored depth of soil borings SB-1 through SB-4. The silty-clay stratum was also present in SB-5 and persisted to 14 feet bgs and was underlain by a well graded sand layer which was encountered to 16 feet bgs, the maximum explored depth of SB-5. No odors or staining were observed in the soil borings and no readings were detected on the PID.

### **5.2 Groundwater**

No groundwater was encountered in soil boring SB-1. Groundwater was encountered in soil borings SB-2 through SB-5 between 8 feet and 12 feet bgs within sand layers or sand seams. The depth to groundwater was generally encountered at deeper depths towards the Detroit River. The likely groundwater flow direction is to the southeast based on surface gradient and observed depth to groundwater.

## 6.0 PATHWAY EVALUATION

The applicable pathways and associated GRCC for the Property under Part 201 of Michigan's *Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended* (Part 201) for soil are the soil drinking water protection (DWP), groundwater surface water interface protection (GSIP), direct contact (DC), soil volatilization to indoor air inhalation (SVIAI), and particulate soil inhalation (PSI).

## 7.0 ANALYTICAL RESULTS

### Soil Analytical Results

Table 1 presents the laboratory analytical results for the soil samples in comparison to the applicable MDEQ Part 201 GRCC. The laboratory analytical reports and chain of custody records are provided in Attachment C.

The laboratory analytical results reported the metal mercury at concentrations exceeding the GRCC for GSIP in soil samples SB-1 (0.5-1.5), SB-3 (9-10'), and SB-4 (7-8'). In addition, arsenic was detected at a concentration exceeding the GRCC for DWP and GSIP in soil sample SB-2 (6.5-7.5'). Lead was reported at a concentration exceeding the GRCC for DC in soil sample SB-1 (0.5-1.5'). No other metals were detected above the GRCC.

As indicated in Part 201 324.20101 (ei-iv), background concentrations for a hazardous substance may be demonstrated by complying with statewide default background levels, or having the hazardous substance listed in the 2005 Michigan background soil survey (Updated 2015) tables 2, 3, or 4 with representation of at least nine samples for the hazardous substance in the glacial lobe for the soil type sampled or through completion of a site-specific demonstration. The concentration in the 2005 Michigan background soil survey (Updated 2015) is the lesser of either two standard deviations of the mean for the soil type and glacial lobe or the uppermost value in the typical range of data for the hazardous substance in table 1. The Property is located within the Huron-Erie Glacial Lobe, which has 175 representative samples for sand which exceeds the minimum of nine samples. The following is a table of the comparison of the arsenic analytical result, sample soil type, and the glacial lobe background concentration and upper value of typical range.

Boring ID	Arsenic Result	Soil Type	Huron-Erie Lobe Concentration	Upper Value of Typical Range
SB-2 (6.5-7.5')	6,280	Sand	26,300	22,800

Based on a comparison of the data to the glacial lobe or upper value of the typical range concentration, the arsenic result for sample SB-2 is below the background concentration.

PNAs were reported in soil samples SB-1 and SB-3 at concentrations below the GRCC. No PNAs were reported in the remaining soil samples. No VOCs were detected in the soil samples.

## **8.0 CONCLUSIONS AND RECOMMENDATIONS**

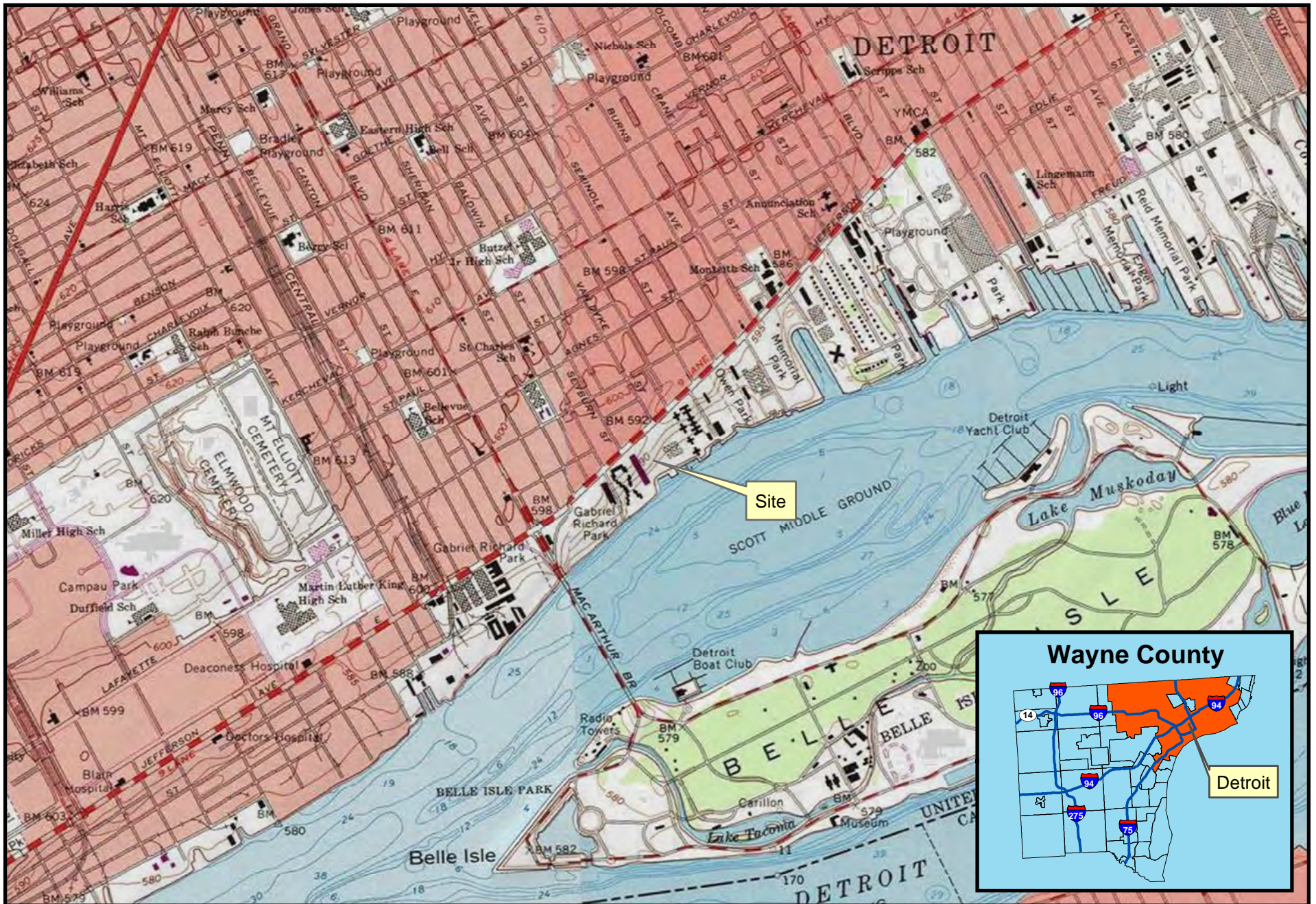
Based on the laboratory analytical results for the soil samples collected at the Property, metals have been detected in soil samples at concentrations exceeding the GRCC for DWP, GSIP, and DC. Therefore, it is ASTI's opinion that the Property is a "facility" as defined in Part 201 of Michigan's Natural Resources and Environmental Protection Act, 1994 PA 451, as Amended (Part 201). A Baseline Environmental Assessment (BEA) is not applicable for the current owner, but could be prepared for a new ownership entity.

ASTI recommends the preparation of a Due Care Plan to document the procedures Shamrock Acquisitions will follow to avoid exacerbation of or exposure to existing contamination during redevelopment and future use of the Property. Recommended response activities for proposed construction of a residential high rise will be summarized in a separate letter, but the letter should not be construed as a Due Care Plan.



## FIGURES

- 1 Site Location Map
- 2 Soil Boring Location Map



7850 E. Jefferson Ave.

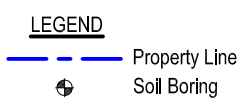
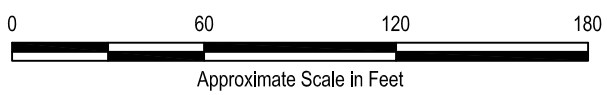
Detroit, MI

2,000 1,000 0 2,000 Feet



Created for: Shamrock Acquisitions LLC  
 Created by: WAD, April 25, 2017, ASTI Project 9991

Figure 1 - Site Location Map



7850 E. Jefferson Ave.

Detroit, MI



Created for: Shamrock Acquisitions LLC  
ASTI Project 10105, JMD, April 18, 2017

Figure 2 - Soil Boring Location Map

## **TABLES**

- 1 Summary of Soil Sample Analytical Results





## ATTACHMENTS

**Attachment A**

**Photo Log**



# PHOTO LOG

7850 E. Jefferson Avenue, Detroit, Michigan



**Photo 1.** Advancement of soil boring SB-1



**Photo 2.** Advancement of soil boring SB-2



**Photo 3.** Advancement of soil boring SB-3

# PHOTO LOG

7850 E. Jefferson Avenue, Detroit, Michigan



**Photo 4.** Urban debris in a core from soil boring SB-3



**Photo 5.** Advancement of soil boring SB-4



**Photo 6.** Advancement of soil boring SB-5

**Attachment B**  
**Soil Boring Logs**

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

**SOIL BORING LOG**

**Boring Data**

Boring ID: SB-1  
 Total Depth: 16'

Date Completed: 4/7/2017

Proj. Name: 7850 E. Jefferson Avenue  
 Proj. Number: 10105

Site Address: 7850 E. Jefferson Avenue  
Detroit, Michigan

Drilled by: ERG  
 Method: Geoprobe  
 Geologist: Jeremy Efros, CPG

**MW Data**

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

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	6"	SILTY fine to medium SAND, trace to some roots, dark brown, moist, medium dense (FILL)	0.0	
6"	3'	SAND, fine to coarse grained, trace gravel, brick, and concrete, brown, moist, loose (FILL)	0.0	Soil at 0.5-1.5'
3'	4'	Brick and concrete	0.0	
4'	16'	SILTY CLAY, trace fine to coarse grained sand and gravel, brown, stiff (CL)	0.0	
		End of Boring		

Notes:

ppm = parts per million

bgs = below ground surface

Unified Soil Classification System Symbols:

CL = Clay

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 Brighton, MI 48116

**SOIL BORING LOG**

**Boring Data**  
 Boring ID: SB-2  
 Total Depth: 16'

**Date Completed:** 4/7/2017

**Proj. Name:** 7850 E. Jefferson Avenue  
**Proj. Number:** 10105

**Site Address:** 7850 E. Jefferson Avenue  
Detroit, Michigan

**Drilled by:** ERG  
**Method:** Geoprobe  
**Geologist:** Jeremy Eφος, CPG

**MW Data**  
 Size: NA  
 Type: NA  
 Screen Length: NA  
 Well Depth: NA  
 GW Depth (▼): 12' bgs

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	8"	SILTY fine to medium SAND, trace to some roots, dark brown, moist, loose (FILL)	0.0	Soil at 6.5-7.5'
8"	6.5'	SILTY CLAY, trace fine to coarse grained sand, gravel, and organics, brown, stiff (FILL)	0.0	
6.5'	7.5'	SAND, fine to coarse grained, trace to some slag, trace gravel, dark brown, moist, loose (FILL)	0.0	
7.5'	8'	SILTY CLAY, trace fine to coarse grained sand, gravel, and organics, brown, stiff (FILL)	0.0	
8'	16'	SILTY CLAY, trace fine to coarse sand and gravel, wet fine to coarse grained sand seam at 12' bgs, brown with occasional gray mottles, stiff (CL)	0.0	
		End of Boring		

Notes:  
 ppm = parts per million  
 bgs = below ground surface  
Unified Soil Classification System Symbols:  
 CL = Clay

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**SOIL BORING LOG**

**Boring Data**

Boring ID: SB-3  
 Total Depth: 16'

Date Completed: 4/7/2017

Proj. Name: 7850 E. Jefferson Avenue  
 Proj. Number: 10105

Site Address: 7850 E. Jefferson Avenue  
Detroit, Michigan

Drilled by: ERG  
 Method: Geoprobe  
 Geologist: Jeremy Eφος, CPG

**MW Data**

Size: NA  
 Type: NA  
 Screen Length: NA  
 Well Depth: NA

GW Depth (▼): 12' bgs

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	6"	SILTY fine to medium SAND, trace to some roots, dark brown, moist, loose (FILL)	0.0	Soil at 9-10'
6"	1'	SILTY CLAY, trace fine to coarse grained sand, brown, stiff (FILL)	0.0	
1'	9'	SAND, fine to coarse grained, trace to some gravel, trace silt, cobbles, concrete, and brick, brown, moist, loose (FILL)	0.0	
9'	10'	SAND, fine to coarse grained, trace to some gravel, trace silt, cobbles, concrete, brick, and foundry sand, brown, moist, loose (FILL)	0.0	
10'	12'	SILTY CLAY, trace fine to coarse grained sand, brown, stiff (FILL)	0.0	
12'	13'	SAND, fine to coarse grained, trace to some gravel, trace concrete, brown, wet, loose (FILL)	0.0	
13'	16'	SILTY CLAY, trace fine to coarse sand and gravel, brown, stiff (CL)	0.0	
		End of Boring		

Notes:

ppm = parts per million

bgs = below ground surface

Unified Soil Classification System Symbols:

CL = Clay

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**SOIL BORING LOG**

**Boring Data**

Boring ID: SB-4  
 Total Depth: 16'

Date Completed: 4/7/2017

Proj. Name: 7850 E. Jefferson Avenue  
 Proj. Number: 10105

Site Address: 7850 E. Jefferson Avenue  
Detroit, Michigan

Drilled by: ERG  
 Method: Geoprobe  
 Geologist: Jeremy Eφος, CPG

**MW Data**

Size: NA  
 Type: NA  
 Screen Length: NA  
 Well Depth: NA

GW Depth (▼): 8' bgs

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	6"	SILTY fine to medium SAND, trace to some roots, dark brown, moist, medium dense (FILL)	0.0	Soil at 7-8'
6"	6.5'	SILTY CLAY, trace fine to coarse sand and gravel, frequent silty sand seams, brown, medium stiff (FILL)	0.0	
6.5'	8'	SAND, fine to coarse grained, trace gravel, slag, and roots, black, moist, medium dense (FILL)	0.0	
8'	10.5'	SAND, fine to medium grained, trace gravel and organics, occasional silty sand seams, brown to dark brown, wet, loose (FILL)	0.0	
10.5'	14'	SAND, fine to medium grained, trace to some silt, trace gravel, brown, wet, medium dense (SW)	0.0	
14'	16'	SILTY CLAY, trace fine to coarse sand and gravel, gray, medium stiff (CL)	0.0	
		End of Boring		

Notes:

ppm = parts per million

bgs = below ground surface

Unified Soil Classification System Symbols:

CL = Clay

SW = Well graded sand

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**SOIL BORING LOG**

**Boring Data**  
 Boring ID: SB-5  
 Total Depth: 16'

**Date Completed:** 4/7/2017

**Proj. Name:** 7850 E. Jefferson Avenue  
**Proj. Number:** 10105

**Site Address:** 7850 E. Jefferson Avenue  
Detroit, Michigan

**Drilled by:** ERG  
**Method:** Geoprobe  
**Geologist:** Jeremy Eφος, CPG

**MW Data**  
 Size: NA  
 Type: NA  
 Screen Length: NA  
 Well Depth: NA  
 GW Depth (▼): 8' bgs

Depth		Description	PID (ppm)	Sample Depth
From	To			
0	6"	SILTY fine to medium SAND, trace to some roots, dark brown, moist, medium dense (FILL)	0.0	Soil at 5-6'
6"	3.5'	SILTY CLAY, trace fine to coarse grained sand and gravel, brown, medium stiff (FILL)	0.0	
3.5'	6'	SILTY fine SAND, trace clay, medium to coarse grained sand, gravel, brick, and organics, brown, moist, medium dense (FILL)	0.0	
6'	12'	SILTY fine SAND, trace organics, occasional silty clay seams, brown, moist to wet at 8' bgs, medium dense (FILL)	0.0	
12'	14'	SILTY CLAY, trace fine to coarse grained sand and gravel, brown, stiff (CL)	0.0	
14'	16'	SAND, fine grained, some silt, trace gravel, brown, wet, medium dense (SW)	0.0	
		End of Boring		

Notes:  
 ppm = parts per million  
 bgs = below ground surface  
Unified Soil Classification System Symbols:  
 CL = Clay  
 SW = Well graded sand



**Attachment C**

**Analytical Laboratory Results and Chain-of-Custody Documentation**



# Analytical Laboratory Report

Supplemental Report

Report ID: S80482.01(02)  
Generated on 04/19/2017

Report to

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Attention: Brian Kuberski  
ASTI Environmental  
10448 Citation Dr.  
Suite 100  
Brighton, MI 48116

Phone: 810-225-2800 FAX: 810-225-3800  
Email: bkuberski@asti-env.com

Additional Contacts: Brad Buswell, George Kandler, Jeremy Efros

Report produced by

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Merit Laboratories, Inc.  
2680 East Lansing Drive  
East Lansing, MI 48823

Phone: (517) 332-0167 FAX: (517) 332-6333

Contacts for report questions:  
John Lavery (johnlavery@meritlabs.com)  
Barbara Ball (bball@meritlabs.com)

Report Summary

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Lab Sample ID(s): S80482.01-S80482.07  
Project: 10105 / 7850 E. Jefferson  
Collected Date: 04/07/2017  
Submitted Date/Time: 04/10/2017 13:25  
Sampled by: Jeremy Efros  
P.O. #:

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Maya Murshak  
Technical Director



# Analytical Laboratory Report

Supplemental Report

## General Report Notes

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Analytical results relate only to the samples tested, in the condition received by the laboratory.

Methods may be modified for improved performance.

Results reported on a dry weight basis where applicable.

'Not detected' indicates that parameter was not found at a level equal to or greater than the reporting limit (RL).

40 CFR Part 136 Table II Required Containers, Preservation Techniques and Holding Times for the Clean Water Act specify that samples for acrolein and acrylonitrile need to be preserved at a pH in the range of 4 to 5 or if not preserved, analyzed within 3 days of sampling.

QA/QC corresponding to this analytical report is a separate document with the same Merit ID reference and is available upon request.

Full accreditation certificates are available upon request. Starred (\*) analytes are not NELAP accredited.

Samples are held by the lab for 30 days from the final report date unless a written request to hold longer is provided by the client.

Report shall not be reproduced except in full, without the written approval of Merit Laboratories, Inc.

## Report Narrative

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Fine and coarse lead added to sample .01 per client request



## Laboratory Certifications

Authority	Certification ID
Michigan DEQ	#9956
DOD ELAP/ISO 17025	#69699
WBENC	#2005110032
Ohio VAP	#CL0002
Indiana DOH	#C-MI-07
New York NELAC	#11814
North Carolina DENR	#680
North Carolina DOH	#26702

## Qualifier Descriptions

Qualifier	Description
!	Result is outside of stated limit criteria
B	Compound also found in associated method blank
E	Concentration exceeds calibration range
F	Analysis run outside of holding time
G	Estimated result due to extraction run outside of holding time
H	Sample submitted and run outside of holding time
I	Matrix interference with internal standard
J	Estimated value less than reporting limit, but greater than MDL
L	Elevated reporting limit due to low sample amount
M	Result reported to MDL not RDL
O	Analysis performed by outside laboratory. See attached report.
R	Preliminary result
S	Surrogate recovery outside of control limits
T	No correction for total solids
X	Elevated reporting limit due to matrix interference
Y	Elevated reporting limit due to high target concentration
b	Value detected less than reporting limit, but greater than MDL
e	Reported value estimated due to interference
j	Analyte also found in associated method blank
p	Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.
x	Preserved from bulk sample

## Glossary of Abbreviations

Abbreviation	Description
RL/RDL	Reporting Limit
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
SW	EPA SW 846 (Soil and Wastewater) Methods
E	EPA Methods
SM	Standard Methods



# Analytical Laboratory Report

Supplemental Report

## Method Summary

Method	Version
SM2540B	Standard Method 2540 B 20th Edition
SW3050B	SW 846 Method 3050B Revision 2 December 1996
SW3550C	SW 846 Method 3550C Revision 3 February 2007
SW5035A/8260C	SW 846 Method 8260C Revision 3 August 2006 / 5035A Revision 1 July 2002
SW6020A	SW 846 Method 6020A Revision 1 February 2007
SW7471B	SW 846 Method 7471B Revision 2 February 2007
SW8082A	SW 846 Method 8082A Revision 1 February 2007
SW8270D	SW 846 Method 8270D Revision 4 February 2007



# Analytical Laboratory Report

Supplemental Report

## Sample Summary (7 samples)

Sample ID	Sample Tag	Matrix	Collected Date/Time
S80482.01	SB-1 (0.5-1.5')	Soil	04/07/17 09:40
S80482.02	SB-2 (6.5-7.5')	Soil	04/07/17 10:10
S80482.03	SB-3 (9-10')	Soil	04/07/17 10:50
S80482.04	SB-4 (7-8')	Soil	04/07/17 11:40
S80482.05	SB-5 (5-6')	Soil	04/07/17 12:15
S80482.06	Meth Blank	Methanol	04/07/17 00:01
S80482.07	Dup1-S	Soil	04/07/17 00:01



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.01  
 Sample Tag: SB-1 (0.5-1.5')  
 Collected Date/Time: 04/07/2017 09:40  
 Matrix: Soil  
 COC Reference: 102419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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**Extraction / Prep.**

Lead, Coarse Digestion*	Completed			SW3050B	04/19/17 11:00	CCM		
Lead, Fine and Coarse Prep*	Completed			SW3050B	04/19/17 11:00	CCM		
Lead, Fine Digestion*	Completed			SW3050B	04/19/17 11:00	CCM		
Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/11/17 17:55	EMR		

**Inorganics**

Total Solids*	84	%	1	SM2540B	04/11/17 09:25	JBL		
Total Solids*	85	%	1	SM2540B	04/19/17 11:00	CCM		

**Metals**

% Coarse by Weight*	85	%		SW6020A	04/19/17 11:00	CCM		
% Fine by Weight*	15	%		SW6020A	04/19/17 11:00	CCM		
Arsenic	3.63	mg/kg	0.20	SW6020A	04/12/17 15:07	PER	7440-38-2	
Barium	285	mg/kg	1.0	SW6020A	04/12/17 15:07	PER	7440-39-3	
Cadmium	0.42	mg/kg	0.20	SW6020A	04/12/17 15:07	PER	7440-43-9	
Chromium	7.62	mg/kg	0.50	SW6020A	04/12/17 15:07	PER	7440-47-3	
Copper	27.1	mg/kg	0.50	SW6020A	04/12/17 15:07	PER	7440-50-8	
Lead, Coarse	165	mg/kg	0.20	SW6020A	04/19/17 13:46	CCM	7439-92-1	
Lead, Fine	518	mg/kg	0.20	SW6020A	04/19/17 13:48	CCM		
Lead, Total Calculated	217	mg/kg		SW6020A	04/19/17 14:01	CCM	7439-92-1C	
Lead	212	mg/kg	0.20	SW6020A	04/12/17 15:07	PER	7439-92-1	
Mercury	0.187	mg/kg	0.050	SW7471B	04/13/17 14:52	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 15:07	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 15:07	PER	7440-22-4	
Zinc	189	mg/kg	0.50	SW6020A	04/12/17 15:07	PER	7440-66-6	

**Organics - Semi-Volatiles**

**Polynuclear Aromatics**

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	120-12-7	
Benzo(a)anthracene	500	ug/kg	330	SW8270D	04/12/17 20:48	PL	56-55-3	
Benzo(a)pyrene	530	ug/kg	330	SW8270D	04/12/17 20:48	PL	50-32-8	
Benzo(b)fluoranthene	930	ug/kg	330	SW8270D	04/12/17 20:48	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	191-24-2	
Benzo(k)fluoranthene	1,000	ug/kg	330	SW8270D	04/12/17 20:48	PL	207-08-9	p
Chrysene	530	ug/kg	330	SW8270D	04/12/17 20:48	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	53-70-3	
Fluoranthene	950	ug/kg	330	SW8270D	04/12/17 20:48	PL	206-44-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.01 (continued)

Sample Tag: SB-1 (0.5-1.5')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Semi-Volatiles (continued)</b>								
<b>Polynuclear Aromatics (continued)</b>								
Fluorene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/12/17 20:48	PL	91-20-3	
Phenanthrene	610	ug/kg	330	SW8270D	04/12/17 20:48	PL	85-01-8	
Pyrene	890	ug/kg	330	SW8270D	04/12/17 20:48	PL	129-00-0	
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:15	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	107-13-1	
Benzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	75-25-2	
Bromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	990	SW5035A/8260C	04/11/17 23:15	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	108-90-7	
Chloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	75-00-3	
Chloroform	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	67-66-3	
Chloromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW5035A/8260C	04/11/17 23:15	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/11/17 23:15	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:15	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:15	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	1634-04-4	
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	75-09-2	

M-Result reported to MDL not RDL





# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.01 (continued)

Sample Tag: SB-1 (0.5-1.5')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:15	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	135-98-8	
Styrene*	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:15	JML	109-99-9	
Toluene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	440	SW5035A/8260C	04/11/17 23:15	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	440	SW5035A/8260C	04/11/17 23:15	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:15	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	70	SW5035A/8260C	04/11/17 23:15	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:15	JML	1330-20-7	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.02  
 Sample Tag: SB-2 (6.5-7.5')  
 Collected Date/Time: 04/07/2017 10:10  
 Matrix: Soil  
 COC Reference: 102419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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**Extraction / Prep.**

Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/12/17 19:49	EMR		

**Inorganics**

Total Solids*	89	%	1	SM2540B	04/11/17 09:25	JBL		
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**Metals**

Arsenic	6.28	mg/kg	0.20	SW6020A	04/12/17 13:45	PER	7440-38-2	
Barium	42.7	mg/kg	1.0	SW6020A	04/12/17 13:45	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:45	PER	7440-43-9	
Chromium	12.1	mg/kg	0.50	SW6020A	04/12/17 13:45	PER	7440-47-3	
Copper	14.2	mg/kg	0.50	SW6020A	04/12/17 13:45	PER	7440-50-8	
Lead	14.7	mg/kg	0.20	SW6020A	04/12/17 13:45	PER	7439-92-1	
Mercury	0.068	mg/kg	0.050	SW7471B	04/13/17 15:01	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 13:45	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:45	PER	7440-22-4	
Zinc	26.5	mg/kg	0.50	SW6020A	04/12/17 13:45	PER	7440-66-6	

**Organics - Semi-Volatiles**

**Polynuclear Aromatics**

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	207-08-9	
Chrysene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	53-70-3	
Fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	85-01-8	
Pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:06	PL	129-00-0	

**Organics - Volatiles**

**Volatile Organics 5035**

Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:36	JML	67-64-1	
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# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.02 (continued)

Sample Tag: SB-2 (6.5-7.5')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	107-13-1	
Benzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	75-25-2	
Bromomethane	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:36	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	870	SW5035A/8260C	04/11/17 23:36	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	108-90-7	
Chloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	75-00-3	
Chloroform	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	67-66-3	
Chloromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:36	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	20	SW5035A/8260C	04/11/17 23:36	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:36	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:36	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:36	JML	1634-04-4	
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:36	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	135-98-8	
Styrene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	79-34-5	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.02 (continued)

Sample Tag: SB-2 (6.5-7.5')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
Tetrachloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:36	JML	109-99-9	
Toluene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	380	SW5035A/8260C	04/11/17 23:36	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	380	SW5035A/8260C	04/11/17 23:36	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:36	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:36	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:36	JML	1330-20-7	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.03  
 Sample Tag: SB-3 (9-10')  
 Collected Date/Time: 04/07/2017 10:50  
 Matrix: Soil  
 COC Reference: 102419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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**Extraction / Prep.**

Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/12/17 19:49	EMR		

**Inorganics**

Total Solids*	89	%	1	SM2540B	04/11/17 09:25	JBL		
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**Metals**

Arsenic	2.36	mg/kg	0.20	SW6020A	04/12/17 14:36	PER	7440-38-2	
Barium	99.4	mg/kg	1.0	SW6020A	04/12/17 14:36	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	SW6020A	04/12/17 14:36	PER	7440-43-9	
Chromium	5.67	mg/kg	0.50	SW6020A	04/12/17 14:36	PER	7440-47-3	
Copper	6.58	mg/kg	0.50	SW6020A	04/12/17 14:36	PER	7440-50-8	
Lead	37.7	mg/kg	0.20	SW6020A	04/12/17 14:36	PER	7439-92-1	
Mercury	0.190	mg/kg	0.050	SW7471B	04/13/17 14:54	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 14:36	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 14:36	PER	7440-22-4	
Zinc	41.3	mg/kg	0.50	SW6020A	04/12/17 14:36	PER	7440-66-6	

**Organics - Semi-Volatiles**

**Polynuclear Aromatics**

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	120-12-7	
Benzo(a)anthracene	660	ug/kg	330	SW8270D	04/15/17 03:05	PL	56-55-3	
Benzo(a)pyrene	630	ug/kg	330	SW8270D	04/15/17 03:05	PL	50-32-8	
Benzo(b)fluoranthene	1,040	ug/kg	330	SW8270D	04/15/17 03:05	PL	205-99-2	p
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	191-24-2	
Benzo(k)fluoranthene	1,120	ug/kg	330	SW8270D	04/15/17 03:05	PL	207-08-9	p
Chrysene	700	ug/kg	330	SW8270D	04/15/17 03:05	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	53-70-3	
Fluoranthene	1,250	ug/kg	330	SW8270D	04/15/17 03:05	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/15/17 03:05	PL	91-20-3	
Phenanthrene	1,070	ug/kg	330	SW8270D	04/15/17 03:05	PL	85-01-8	
Pyrene	1,660	ug/kg	330	SW8270D	04/15/17 03:05	PL	129-00-0	

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.03 (continued)

Sample Tag: SB-3 (9-10')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:56	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	107-13-1	
Benzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	75-25-2	
Bromomethane	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:56	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	920	SW5035A/8260C	04/11/17 23:56	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	108-90-7	
Chloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	75-00-3	
Chloroform	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	67-66-3	
Chloromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:56	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	20	SW5035A/8260C	04/11/17 23:56	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/11/17 23:56	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:56	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 23:56	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:56	JML	1634-04-4	
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 23:56	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	135-98-8	
Styrene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	630-20-6	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.03 (continued)

Sample Tag: SB-3 (9-10')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 23:56	JML	109-99-9	
Toluene	130	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	410	SW5035A/8260C	04/11/17 23:56	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	410	SW5035A/8260C	04/11/17 23:56	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 23:56	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	60	SW5035A/8260C	04/11/17 23:56	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 23:56	JML	1330-20-7	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.04  
Sample Tag: SB-4 (7-8')  
Collected Date/Time: 04/07/2017 11:40  
Matrix: Soil  
COC Reference: 102419

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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### Extraction / Prep.

Extraction, PCB	Completed			SW3550C	04/12/17 11:17	PLB		
Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/12/17 19:49	EMR		

### Inorganics

Total Solids*	84	%	1	SM2540B	04/11/17 09:25	JBL		
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### Metals

Arsenic	0.98	mg/kg	0.20	SW6020A	04/12/17 13:49	PER	7440-38-2	
Barium	50.5	mg/kg	1.0	SW6020A	04/12/17 13:49	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:49	PER	7440-43-9	
Chromium	5.99	mg/kg	0.50	SW6020A	04/12/17 13:49	PER	7440-47-3	
Copper	14.1	mg/kg	0.50	SW6020A	04/12/17 13:49	PER	7440-50-8	
Lead	44.6	mg/kg	0.20	SW6020A	04/12/17 13:49	PER	7439-92-1	
Mercury	0.215	mg/kg	0.050	SW7471B	04/13/17 14:56	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 13:49	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:49	PER	7440-22-4	
Zinc	31.2	mg/kg	0.50	SW6020A	04/12/17 13:49	PER	7440-66-6	

### Organics - PCBs/Pesticides

#### PCB List

PCB-1016	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/12/17 17:35	JAN	11096-82-5	

### Organics - Semi-Volatiles

#### Polynuclear Aromatics

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	207-08-9	
Chrysene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	53-70-3	





# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.04 (continued)

Sample Tag: SB-4 (7-8')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Semi-Volatiles (continued)</b>								
<b>Polynuclear Aromatics (continued)</b>								
Fluoranthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	85-01-8	
Pyrene	Not detected	ug/kg	330	SW8270D	04/13/17 23:24	PL	129-00-0	
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/12/17 00:17	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	107-13-1	
Benzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	75-25-2	
Bromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	1,000	SW5035A/8260C	04/12/17 00:17	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	108-90-7	
Chloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	75-00-3	
Chloroform	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	67-66-3	
Chloromethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW5035A/8260C	04/12/17 00:17	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:17	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW5035A/8260C	04/12/17 00:17	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW5035A/8260C	04/12/17 00:17	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	1634-04-4	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.04 (continued)

Sample Tag: SB-4 (7-8')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:17	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	135-98-8	
Styrene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/12/17 00:17	JML	109-99-9	
Toluene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	450	SW5035A/8260C	04/12/17 00:17	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	450	SW5035A/8260C	04/12/17 00:17	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:17	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:17	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:17	JML	1330-20-7	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.05  
 Sample Tag: SB-5 (5-6')  
 Collected Date/Time: 04/07/2017 12:15  
 Matrix: Soil  
 COC Reference: 102419

Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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**Extraction / Prep.**

Extraction, PCB	Completed			SW3550C	04/12/17 11:17	PLB		
Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/12/17 19:49	EMR		

**Inorganics**

Total Solids*	82	%	1	SM2540B	04/11/17 09:25	JBL		
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**Metals**

Arsenic	2.35	mg/kg	0.20	SW6020A	04/12/17 13:51	PER	7440-38-2	
Barium	33.2	mg/kg	1.0	SW6020A	04/12/17 13:51	PER	7440-39-3	
Cadmium	0.46	mg/kg	0.20	SW6020A	04/12/17 13:51	PER	7440-43-9	
Chromium	5.01	mg/kg	0.50	SW6020A	04/12/17 13:51	PER	7440-47-3	
Copper	133	mg/kg	0.50	SW6020A	04/12/17 13:51	PER	7440-50-8	
Lead	69.0	mg/kg	0.20	SW6020A	04/12/17 13:51	PER	7439-92-1	
Mercury	Not detected	mg/kg	0.050	SW7471B	04/13/17 14:57	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 13:51	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:51	PER	7440-22-4	
Zinc	293	mg/kg	0.50	SW6020A	04/12/17 13:51	PER	7440-66-6	

**Organics - PCBs/Pesticides**

**PCB List**

PCB-1016	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/12/17 17:46	JAN	11096-82-5	

**Organics - Semi-Volatiles**

**Polynuclear Aromatics**

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	208-96-8	
Anthracene	420	ug/kg	330	SW8270D	04/13/17 23:43	PL	120-12-7	
Benzo(a)anthracene	820	ug/kg	330	SW8270D	04/13/17 23:43	PL	56-55-3	I
Benzo(a)pyrene	760	ug/kg	330	SW8270D	04/13/17 23:43	PL	50-32-8	I
Benzo(b)fluoranthene	1,290	ug/kg	330	SW8270D	04/13/17 23:43	PL	205-99-2	lp
Benzo(ghi)perylene	410	ug/kg	330	SW8270D	04/13/17 23:43	PL	191-24-2	I
Benzo(k)fluoranthene	1,390	ug/kg	330	SW8270D	04/13/17 23:43	PL	207-08-9	lp

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.05 (continued)

Sample Tag: SB-5 (5-6')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Semi-Volatiles (continued)</b>								
<b>Polynuclear Aromatics (continued)</b>								
Chrysene	810	ug/kg	330	SW8270D	04/13/17 23:43	PL	218-01-9	I
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	53-70-3	I
Fluoranthene	1,900	ug/kg	330	SW8270D	04/13/17 23:43	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	420	ug/kg	330	SW8270D	04/13/17 23:43	PL	193-39-5	I
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/13/17 23:43	PL	91-20-3	
Phenanthrene	1,640	ug/kg	330	SW8270D	04/13/17 23:43	PL	85-01-8	
Pyrene	2,340	ug/kg	330	SW8270D	04/13/17 23:43	PL	129-00-0	I
<b>Polynuclear Aromatics (Replicate 01)</b>								
Acenaphthene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	208-96-8	
Anthracene	380	ug/kg	330	SW8270D	04/14/17 22:27	PL	120-12-7	
Benzo(a)anthracene	720	ug/kg	330	SW8270D	04/14/17 22:27	PL	56-55-3	
Benzo(a)pyrene	600	ug/kg	330	SW8270D	04/14/17 22:27	PL	50-32-8	
Benzo(b)fluoranthene	1,010	ug/kg	330	SW8270D	04/14/17 22:27	PL	205-99-2	p
Benzo(ghi)perylene	350	ug/kg	330	SW8270D	04/14/17 22:27	PL	191-24-2	
Benzo(k)fluoranthene	1,090	ug/kg	330	SW8270D	04/14/17 22:27	PL	207-08-9	p
Chrysene	690	ug/kg	330	SW8270D	04/14/17 22:27	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	53-70-3	
Fluoranthene	1,580	ug/kg	330	SW8270D	04/14/17 22:27	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/14/17 22:27	PL	91-20-3	
Phenanthrene	1,540	ug/kg	330	SW8270D	04/14/17 22:27	PL	85-01-8	
Pyrene	1,810	ug/kg	330	SW8270D	04/14/17 22:27	PL	129-00-0	
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/12/17 00:37	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	107-13-1	
Benzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	75-25-2	
Bromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:37	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	1,100	SW5035A/8260C	04/12/17 00:37	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	108-90-7	
Chloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	75-00-3	
Chloroform	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	67-66-3	
Chloromethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	156-59-2	

I-Matrix interference with internal standard

p-Benzo(b)Fluoranthene and Benzo(k)Fluoranthene integrated as one peak.



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.05 (continued)

Sample Tag: SB-5 (5-6')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
cis-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:37	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW5035A/8260C	04/12/17 00:37	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	4,000	SW5035A/8260C	04/12/17 00:37	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	4,000	SW5035A/8260C	04/12/17 00:37	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:37	JML	1634-04-4	
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:37	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	135-98-8	
Styrene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/12/17 00:37	JML	109-99-9	
Toluene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	460	SW5035A/8260C	04/12/17 00:37	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	460	SW5035A/8260C	04/12/17 00:37	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/12/17 00:37	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	95-63-6	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.05 (continued)

Sample Tag: SB-5 (5-6')

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
1,3,5-Trimethylbenzene	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	70	SW5035A/8260C	04/12/17 00:37	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:37	JML	1330-20-7	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.06  
Sample Tag: Meth Blank  
Collected Date/Time: 04/07/2017 00:01  
Matrix: Methanol  
COC Reference: 102419

### Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 20:12	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	107-13-1	
Benzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	75-27-4	
Bromoform*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	75-25-2	
Bromomethane	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 20:12	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	750	SW5035A/8260C	04/11/17 20:12	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	108-90-7	
Chloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	75-00-3	
Chloroform	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	67-66-3	
Chloromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 20:12	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	20	SW5035A/8260C	04/11/17 20:12	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 20:12	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	3,000	SW5035A/8260C	04/11/17 20:12	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 20:12	JML	1634-04-4	
Methylene chloride	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	300	SW5035A/8260C	04/11/17 20:12	JML	91-20-3	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.06 (continued)

Sample Tag: Meth Blank

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
n-Butylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	135-98-8	
Styrene*	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	1,000	SW5035A/8260C	04/11/17 20:12	JML	109-99-9	
Toluene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	330	SW5035A/8260C	04/11/17 20:12	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	330	SW5035A/8260C	04/11/17 20:12	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	100	SW5035A/8260C	04/11/17 20:12	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	50	SW5035A/8260C	04/11/17 20:12	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/11/17 20:12	JML	1330-20-7	





# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.07  
Sample Tag: Dup1-S  
Collected Date/Time: 04/07/2017 00:01  
Matrix: Soil  
COC Reference: 102419

## Sample Containers

#	Type	Preservative(s)	Refrigerated?	Arrival Temp. (C)	Thermometer #
1	40ml Glass	MeOH	Yes	5.4	IR
1	4oz Glass	None	Yes	5.4	IR

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
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### Extraction / Prep.

Extraction, PCB	Completed			SW3550C	04/12/17 11:17	PLB		
Mercury Digestion	Completed			SW7471B	04/13/17 12:00	JRH		
Metal Digestion	Completed			SW3050B	04/12/17 10:00	PER		
PNA Extraction	Completed			SW3550C	04/12/17 19:49	EMR		

### Inorganics

Total Solids*	78	%	1	SM2540B	04/11/17 09:25	JBL		
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### Metals

Arsenic	0.40	mg/kg	0.20	SW6020A	04/12/17 13:53	PER	7440-38-2	
Barium	79.5	mg/kg	1.0	SW6020A	04/12/17 13:53	PER	7440-39-3	
Cadmium	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:53	PER	7440-43-9	
Chromium	8.11	mg/kg	0.50	SW6020A	04/12/17 13:53	PER	7440-47-3	
Copper	16.0	mg/kg	0.50	SW6020A	04/12/17 13:53	PER	7440-50-8	
Lead	8.10	mg/kg	0.20	SW6020A	04/12/17 13:53	PER	7439-92-1	
Mercury	0.101	mg/kg	0.050	SW7471B	04/13/17 14:59	JRH	7439-97-6	
Selenium	Not detected	mg/kg	0.40	SW6020A	04/12/17 13:53	PER	7782-49-2	
Silver	Not detected	mg/kg	0.20	SW6020A	04/12/17 13:53	PER	7440-22-4	
Zinc	21.1	mg/kg	0.50	SW6020A	04/12/17 13:53	PER	7440-66-6	

### Organics - PCBs/Pesticides

#### PCB List

PCB-1016	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	12674-11-2	
PCB-1242	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	53469-21-9	
PCB-1221	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	11104-28-2	
PCB-1232	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	11141-16-5	
PCB-1248	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	12672-29-6	
PCB-1254	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	11097-69-1	
PCB-1260	Not detected	ug/kg	330	SW8082A	04/12/17 17:57	JAN	11096-82-5	

### Organics - Semi-Volatiles

#### Polynuclear Aromatics

Acenaphthene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	83-32-9	
Acenaphthylene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	208-96-8	
Anthracene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	120-12-7	
Benzo(a)anthracene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	56-55-3	
Benzo(a)pyrene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	50-32-8	
Benzo(b)fluoranthene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	205-99-2	
Benzo(ghi)perylene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	191-24-2	
Benzo(k)fluoranthene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	207-08-9	
Chrysene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	218-01-9	
Dibenzo(ah)anthracene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	53-70-3	



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.07 (continued)

Sample Tag: Dup1-S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Semi-Volatiles (continued)</b>								
<b>Polynuclear Aromatics (continued)</b>								
Fluoranthene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	206-44-0	
Fluorene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	86-73-7	
Indeno(1,2,3-cd)pyrene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	193-39-5	
2-Methylnaphthalene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	91-57-6	
Naphthalene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	91-20-3	
Phenanthrene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	85-01-8	
Pyrene	Not detected	ug/kg	330	SW8270D	04/14/17 00:01	PL	129-00-0	
<b>Organics - Volatiles</b>								
<b>Volatile Organics 5035</b>								
Acetone	Not detected	ug/kg	2,000	SW5035A/8260C	04/12/17 00:57	JML	67-64-1	
Acrylonitrile	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	107-13-1	
Benzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	71-43-2	
Bromobenzene	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	108-86-1	
Bromochloromethane	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	74-97-5	
Bromodichloromethane	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	75-27-4	
Bromoform*	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	75-25-2	
Bromomethane	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:57	JML	74-83-9	
2-Butanone (MEK)*	Not detected	ug/kg	1,100	SW5035A/8260C	04/12/17 00:57	JML	78-93-3	
Carbon disulfide	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	75-15-0	
Carbon tetrachloride	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	56-23-5	
Chlorobenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	108-90-7	
Chloroethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	75-00-3	
Chloroform	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	67-66-3	
Chloromethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	74-87-3	
cis-1,2-Dichloroethene*	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	156-59-2	
cis-1,3-Dichloropropene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	10061-01-5	
Cyclohexane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	110-82-7	
1,2-Dibromo-3-chloropropane*	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	96-12-8	
Dibromochloromethane	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	124-48-1	
Dibromomethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	74-95-3	
1,2-Dichlorobenzene	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	95-50-1	
1,3-Dichlorobenzene	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	541-73-1	
1,4-Dichlorobenzene	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	106-46-7	
Dichlorodifluoromethane	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	75-71-8	
1,1-Dichloroethane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	75-34-3	
1,2-Dichloroethane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	107-06-2	
1,1-Dichloroethene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	75-35-4	
1,2-Dichloropropane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	78-87-5	
Diethyl ether	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:57	JML	60-29-7	
Ethylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	100-41-4	
1,2-Dibromoethane*	Not detected	ug/kg	30	SW5035A/8260C	04/12/17 00:57	JML	106-93-4	M
Hexachloroethane	Not detected	ug/kg	500	SW5035A/8260C	04/12/17 00:57	JML	67-72-1	
2-Hexanone*	Not detected	ug/kg	4,000	SW5035A/8260C	04/12/17 00:57	JML	591-78-6	
Isopropylbenzene	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	98-82-8	
Methyl iodide	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	74-88-4	
4-Methyl-2-pentanone (MIBK)*	Not detected	ug/kg	4,000	SW5035A/8260C	04/12/17 00:57	JML	108-10-1	
tert-Methyl butyl ether (MTBE)*	Not detected	ug/kg	300	SW5035A/8260C	04/12/17 00:57	JML	1634-04-4	

M-Result reported to MDL not RDL



# Analytical Laboratory Report

Supplemental Report

Lab Sample ID: S80482.07 (continued)

Sample Tag: Dup1-S

Analysis	Results	Units	RL	Method	Run Date/Time	Tech	CAS #	Flags
<b>Organics - Volatiles (continued)</b>								
<b>Volatile Organics 5035 (continued)</b>								
Methylene chloride	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	75-09-2	
2-Methylnaphthalene*	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	91-57-6	
Naphthalene*	Not detected	ug/kg	400	SW5035A/8260C	04/12/17 00:57	JML	91-20-3	
n-Butylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	104-51-8	
n-Propylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	103-65-1	
p-Isopropyltoluene	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	99-87-6	
sec-Butylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	135-98-8	
Styrene*	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	100-42-5	
tert-Butylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	98-06-6	
1,1,1,2-Tetrachloroethane	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	630-20-6	
1,1,2,2-Tetrachloroethane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	79-34-5	
Tetrachloroethene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	127-18-4	
Tetrahydrofuran*	Not detected	ug/kg	2,000	SW5035A/8260C	04/12/17 00:57	JML	109-99-9	
Toluene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	108-88-3	
trans-1,2-Dichloroethene*	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	156-60-5	
trans-1,3-Dichloropropene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	10061-02-6	
trans-1,4-Dichloro-2-butene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	110-57-6	
1,2,3-Trichlorobenzene	Not detected	ug/kg	500	SW5035A/8260C	04/12/17 00:57	JML	87-61-6	
1,2,4-Trichlorobenzene	Not detected	ug/kg	500	SW5035A/8260C	04/12/17 00:57	JML	120-82-1	
1,1,1-Trichloroethane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	71-55-6	
1,1,2-Trichloroethane	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	79-00-5	
Trichloroethene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	79-01-6	
Trichlorofluoromethane	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	75-69-4	
1,2,3-Trichloropropane*	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	96-18-4	
1,2,3-Trimethylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	526-73-8	
1,2,4-Trimethylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	95-63-6	
1,3,5-Trimethylbenzene	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	108-67-8	
Vinyl chloride	Not detected	ug/kg	80	SW5035A/8260C	04/12/17 00:57	JML	75-01-4	
Total Xylenes	Not detected	ug/kg	200	SW5035A/8260C	04/12/17 00:57	JML	1330-20-7	



2680 East Lansing Dr., East Lansing, MI 48823  
 Phone (517) 332-0167 Fax (517) 332-4034  
 www.meritlabs.com

C.O.C. PAGE # 1 OF 1

102419

REPORT TO

CHAIN OF CUSTODY RECORD

INVOICE TO

CONTACT NAME: Jeremy Etras / Brian Kubersti  
 COMPANY: ASTI Environmental  
 ADDRESS: 10448 Citation Drive #100  
 CITY: Brighton STATE: MI ZIP CODE: 48116  
 PHONE NO.: 810-360-9710 FAX NO.: \_\_\_\_\_ P.O. NO.: \_\_\_\_\_  
 E-MAIL ADDRESS: jetras@asti-env.com / bkubersti@asti-env.com QUOTE NO.: \_\_\_\_\_

CONTACT NAME: \_\_\_\_\_  SAME  
 COMPANY: \_\_\_\_\_  
 ADDRESS: \_\_\_\_\_  
 CITY: \_\_\_\_\_ STATE: \_\_\_\_\_ ZIP CODE: \_\_\_\_\_  
 PHONE NO.: \_\_\_\_\_ E-MAIL ADDRESS: \_\_\_\_\_

PROJECT NO./NAME: 10105 / 7850 E. Jefferson SAMPLER(S) - PLEASE PRINT SIGN NAME: [Signature]  
 TURNAROUND TIME REQUIRED:  1 DAY  2 DAYS  3 DAYS  STANDARD  OTHER \_\_\_\_\_  
 DELIVERABLES REQUIRED:  STD  LEVEL II  LEVEL III  LEVEL IV  EDD  OTHER \_\_\_\_\_

ANALYSIS (ATTACH LIST IF MORE SPACE IS REQUIRED)

MATRIX CODE: GW=GROUNDWATER WW=WASTEWATER S=SOIL L=LIQUID SD=SOLID  
 SL=SLUDGE DW=DRINKING WATER O=OIL WP=WIPE A=AIR W=WASTE

# Containers & Preservatives

MERIT LAB NO. <small>FOR LAB USE ONLY</small>	YEAR		SAMPLE TAG IDENTIFICATION-DESCRIPTION	MATRIX	# OF BOTTLES	NONE	HCl	HNO <sub>3</sub>	H <sub>2</sub> SO <sub>4</sub>	NaOH	MeOH	OTHER
	DATE	TIME										
50482.01	4/7/17	0940	SB-1 (0.5-1.5')	S	2	1						
.02		1010	SB-2 (6.5-7.5')	S	2	1						
.03		1050	SB-3 (9-10')	S	2	1						
.04		1140	SB-4 (7-8')	S	2	1						
.05	✓	1215	SB-5 (5-8')	S	2	1						
.06			Meth Blank	S	1							
.07	4/7/17		Dupl-s	S	2	1						

VOCs  
 PNAs  
 Mich 10 Metals  
 PCBs

Certifications:  
 OHIO VAP  Drinking Water  
 DoD  NPDES  
 Project Locations:  
 Detroit  New York  
 Other \_\_\_\_\_  
 Special Instructions

RELINQUISHED BY: [Signature] Sampler DATE: 4/10/17 TIME: 1225  
 RECEIVED BY: [Signature] DATE: 4/10/17 TIME: 1225  
 RELINQUISHED BY: [Signature] DATE: 4/10/17 TIME: \_\_\_\_\_  
 RECEIVED BY: [Signature] DATE: 4/10/17 TIME: 1325

RELINQUISHED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 RECEIVED BY: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_  
 SEAL NO. SEAL INTACT INITIALS NOTES: TEMP. ON ARRIVAL \_\_\_\_\_  
 YES  NO   
 SEAL NO. SEAL INTACT INITIALS  
 YES  NO  5.4

**ASTI ENVIRONMENTAL**  
**ENVIRONMENTAL INVESTIGATION, REMEDIATION, COMPLIANCE AND**  
**RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.**

**OUR SERVICES INCLUDE:**

- **ASBESTOS, LEAD, MOLD, AND RADON ASSESSMENTS**
- **BROWNFIELD/GREYFIELD REDEVELOPMENT ASSISTANCE**
- **DEVELOPMENT INCENTIVES AND GRANT MANAGEMENT**
- **ECOLOGICAL ASSESSMENTS AND RESTORATION**
- **ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS**
- **ENVIRONMENTAL OPPORTUNITIES ASSESSMENT**
- **GIS MAPPING**
- **HAZARD MITIGATION PLANNING**
- **MINING AND RECLAMATION ASSISTANCE**
- **REMEDIATION IMPLEMENTATION, OPERATION AND MAINTENANCE**
- **PHASE I ESA AND ENVIRONMENTAL DUE DILIGENCE ASSESSMENTS**
- **REGULATORY COMPLIANCE AND PERMITTING**
- **SOIL AND GROUNDWATER ASSESSMENTS**
- **SOIL AND GROUNDWATER REMEDIATION**
- **STORAGE TANK COMPLIANCE AND CLOSURE**
- **THREATENED AND ENDANGERED SPECIES SURVEYS**
- **WATERSHED AND STORMWATER MANAGEMENT PROGRAMS**
- **WETLAND DELINEATION, PERMITTING, MITIGATION AND BANKING**

**Attachment C**  
**ALTA/NSPS Land Title Survey**



**Attachment D**  
**Resume of Jeremy Efros**





**Jeremy N. Efros, C.P.G**  
Environmental Geologist

---

## PROFILE

### Certifications

Certified Professional Geologist (Certification No. CPG-11756)

40-Hour OSHA HAZWOPER

8-Hour OSHA HAZWOPER Refresher

8-Hour Radiation Safety and Monitoring, Device Operation, and Machine Maintenance of the Niton XRF Analyzer

10-Hour Construction Safety and Health Training

8-Hour Site Health and Safety Coordinator Course

### Education

Geology, B.S., University of Michigan, Ann Arbor, Michigan

Geophysics and Paleoseismology, Masters Candidate, Boston College, Chestnut Hill, Massachusetts

### Training

ASTM Risk-Based Corrective Action at Petroleum Release Sites

FEMA Incident Command Courses IS-00100.FW, IS-00200.FW, and IS-00700 through National Incident Management System

### Experience History

Geologist, Property Services Group, ASTI ENVIRONMENTAL

Senior Environmental Consultant, AKT Peerless

Staff Geologist, Soil and Materials Engineers, Inc.

Geoscientist, Weston Solutions, Inc.

### Professional Background

Mr. Efros has conducted investigative activities on environmentally impacted sites in several states for both governmental and private clients. He has implemented remedial activities for petroleum contaminated soil and water from leaking underground storage tanks. He has conducted or provided oversight for underground storage tank removals and post-removal activities through implementation of remedial actions when a release has been identified. These activities have included long-term groundwater monitoring, initial and final assessment reporting, and site closures. Mr. Efros has completed numerous Phase I and Phase II Environmental Site Assessments, Baseline Environmental Assessments, Due Care Plans, and Response Activity Plans for properties throughout Michigan for all land type uses. Mr. Efros has also provided operation and maintenance services on skimmer pump systems and natural attenuation monitoring at gasoline storage and distribution facilities in Michigan. Project management skills include proposal preparation, coordinating fieldwork, supervising subcontractors, project tracking/budgeting, and client management. In addition Mr. Efros has experience working as a Superfund Technical Assessment and Response Team (START) member for the USEPA in Regions IV, V, and VI. Mr. Efros' field experience includes supervision of soil boring advancement including monitoring well installation, and surveying; conducting geophysical surveys; low-flow groundwater sampling; vapor intrusion assessments; dredging project oversight; and hazardous materials assessments.

Professional Memberships

American Institute of Professional Geologists  
Michigan Association of Environmental Professionals

**Years Experience:**

4 --- ASTI ENVIRONMENTAL  
9 --- other firms

**ASTI ENVIRONMENTAL**  
**ENVIRONMENTAL INVESTIGATION, REMEDIATION, COMPLIANCE AND**  
**RESTORATION PROJECTS THROUGHOUT THE GREAT LAKES SINCE 1985.**

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- **ENVIRONMENTAL ASSESSMENTS AND IMPACT STATEMENTS**
- **ENVIRONMENTAL OPPORTUNITIES ASSESSMENT**
- **GIS MAPPING**
- **HAZARD MITIGATION PLANNING**
- **MINING AND RECLAMATION ASSISTANCE**
- **REMEDIATION IMPLEMENTATION, OPERATION AND MAINTENANCE**
- **PHASE I ESA AND ENVIRONMENTAL DUE DILIGENCE ASSESSMENTS**
- **REGULATORY COMPLIANCE AND PERMITTING**
- **SOIL AND GROUNDWATER ASSESSMENTS**
- **SOIL AND GROUNDWATER REMEDIATION**
- **STORAGE TANK COMPLIANCE AND CLOSURE**
- **THREATENED AND ENDANGERED SPECIES SURVEYS**
- **WATERSHED AND STORMWATER MANAGEMENT PROGRAMS**
- **WETLAND DELINEATION, PERMITTING, MITIGATION AND BANKING**