



environmental consulting solutions  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073

January 19, 2026

District Supervisor  
Michigan Department of Environment, Great Lakes and Energy  
Jackson District Office  
Remediation and Redevelopment Division  
301 East Louis Glick Highway  
Jackson, MI 49201

**RE: Baseline Environmental Assessment  
123 W. Summit  
Ann Arbor, Michigan  
ECS Project A121-0001-04**

Dear District Supervisor:

Enclosed is one (1) copy of the above-referenced document prepared in accordance with Section 20126(1)(c) of 1994 PA 451, Part 201 as Amended, and the Rules promulgated thereunder. Environmental Consulting Solutions, LLC prepared the Baseline Environmental Assessment on behalf of the prospective owner/operator, Ann Arbor Housing Development Corporation.

If you have any questions or concerns, please feel free to contact me at 248-763-3639.

Sincerely,  
Environmental Consulting Solutions, LLC

A handwritten signature in black ink that reads 'Julie Pratt' in a cursive style.

Julie Anna Pratt  
Senior Project Professional

A handwritten signature in black ink that reads 'Andrew J. Foerg' in a cursive style.

Andrew J. Foerg, CPG  
President

Enclosure



environmental consulting solutions  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073

## **Baseline Environmental Assessment**

**(conducted pursuant to Section 20126(1)(C) of 1994 PA 451,  
Part 201 as amended and the rules promulgated thereunder)**

**for**

**123 W. Summit  
Ann Arbor, Washtenaw County, Michigan**

**Date Conducted: January 19, 2026**

**Prepared for:**

*Jennifer Hall  
Ann Arbor Housing Development Corporation  
2000 S. Industrial  
Ann Arbor MI 48104*

**Prepared by:**

*Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073  
[www.environmentalconsultingsolutions.com](http://www.environmentalconsultingsolutions.com)*

**TABLE OF CONTENTS**

1.0 INTRODUCTION AND DISCUSSION..... 1

    1.1 Owner/Operator Information..... 1

    1.2 Intended Use of the Site..... 1

    1.3 Summary of All Appropriate Inquiry Phase I Environmental Assessment..... 2

        1.3.1 Phase I ESA Exceptions or Deletions..... 3

        1.3.2 Phase I ESA Data Gaps ..... 3

    1.4 Summary of Phase II Environmental Site Assessments ..... 3

        1.4.1 Previous Site Investigations ..... 3

    1.5 Known Contamination/Media Affected ..... 4

    1.6 Site Facility Status ..... 4

2.0 PROPERTY INFORMATION..... 5

    2.1 Legal Description of Site ..... 5

    2.2 Survey Map of Site ..... 5

    2.3 Sample Location and Analytical Summary Maps ..... 5

    2.4 Site Location Map..... 5

    2.5 Site Address ..... 5

    2.6 Site Spatial Data ..... 5

3.0 FACILITY STATUS OF SITE ..... 6

    3.1 Summary Data Table ..... 6

    3.2 Laboratory Reports and Chain of Custody Documentation..... 6

4.0 IDENTIFICATION OF AUTHOR..... 6

5.0 AAI REPORT OR ASTM PHASE I ESA ..... 7

6.0 REFERENCES..... 7

## **FIGURES**

- Figure 1: Site Location Map
- Figure 2: Aerial Site Map
- Figure 3: Site Map with Soil Analytical Results
- Figure 4: Site Map with Groundwater Analytical Results

## **TABLES**

- Table 1: Summary of Detected analyte Concentrations in Soil
- Table 2: Summary of Detected analyte Concentrations in Groundwater

## **APPENDICES**

- Appendix A: January 13, 2026 Phase I ESA Report (excluding database report)
- Appendix B: June 26, 2024 Phase II ESA Report
- Appendix C: Survey Map
- Appendix D: Professional Resumes

## 1.0 INTRODUCTION AND DISCUSSION

Environmental Consulting Solutions, LLC (ECS) was retained by the Ann Arbor Housing Development Corporation to conduct due diligence activities located at 123 W. Summit in Ann Arbor, Michigan, associated with a prospective property transaction.

The subject property for the purpose of this BEA is approximately 0.33 acres of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. The subject property consists of land being separated from the parent parcel, 721 N. Main Street, which most recently operated as the City of Ann Arbor municipal garage.

The subject property and parent parcel details as obtained from Washtenaw County and City of Ann Arbor municipal records are summarized in the following table:

Parent Parcel	Parent Parcel Address	Subject Property Parcel Address	Subject Property Parcel Details
09-09-20-409-006	721 N. Main	119-123 W. Summit	~0.33-acre fronting W. Summit

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with vegetation. The adjoining properties include mixed use with commercial and residential to the north, railroad to the west, single family residential along Summit Street to the east, and vacant land (former commercial/industrial) to the south.

Based on the ECS Phase I ESA Report dated January 13, 2026, recognized environmental conditions (RECs) were identified associated with the subject property. Phase II ESA activities were previously conducted on the subject property in 2024 to address RECs identified in a 2024 Phase I ESA. Previous site assessments confirmed the presence of contaminants above EGLE unrestricted residential cleanup criteria and/or screening levels. The site assessment data obtained from the subject property confirm the subject property is classified as a "facility" in accordance with Part 201 of Act 451, 1994, as amended.

This BEA was prepared in accordance with the requirements for BEAs provided by EGLE in its document, *Contents of BEA Report* (EQP 4025), dated December 2024.

### 1.1 Owner/Operator Information

Ann Arbor Housing Development Corporation is the prospective owner/operator of the subject property. Property purchase is anticipated in February 2026. Mailing Address for Ann Arbor Housing Development Corporation is as follows: c/o Jennifer Hall, 5660 2000 S. Industrial, Ann Arbor, MI 48104

The current property owner is the City of Ann Arbor.

### 1.2 Intended Use of the Site

Intended use of the site is future redevelopment for residential multi-family housing. Future use will not involve the use, storage and/or handling of petroleum products or other hazardous chemicals in significant quantities.

### 1.3 Summary of All Appropriate Inquiry Phase I Environmental Assessment

A Phase I ESA Report of the subject property was prepared by ECS, dated January 13, 2026. A copy of the Phase I ESA, including photographs of the site, is included in **Appendix A**. Please note that in accordance with EGLE EQP4025, the environmental database search report and copies of any EGLE files are not included.

Historical documentation indicates the site was first developed sometime circa 1917 for residential use (city directory). The property was redeveloped as a parking lot for the adjoining industrial/municipal property to the south. No other known uses were identified.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000-gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identifies the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

Previous assessment was conducted on the subject property. A Phase II ESA was conducted in 2024 to assess RECs identified during a previous Phase I ESA dated April 29, 2024. The results indicated soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the property being classified as a "facility".

During the course of the Phase I ESA, the following RECS were identified associated with the subject property:

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.

- Phase II ESA activities conducted in on the subject property in 2024 to assess the subject property confirmed soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the subject property being classified as a "facility".

### **1.3.1 Phase I ESA Exceptions or Deletions**

During the completion of the Phase I ESA there were no exceptions or deletions from the Federal All Appropriate Inquiry Rule under 40 CFR 312, or the ASTM Standard. In addition, no special terms or conditions applied to the preparation of the Phase I ESA.

### **1.3.2 Phase I ESA Data Gaps**

There were no data gaps or limitations encountered during the Phase I ESA, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site observations at the time of the site reconnaissance due to snow cover.

The data gaps, failures and/or limitations were not determined to be material in identifying RECs and/or they are not considered by ASTM standard to be significant based on additional information gathered and ability to draw a conclusion in regard to the prior use of the subject property from the sources reviewed.

## **1.4 Summary of Phase II Environmental Site Assessments**

ECS previously completed a Phase I ESA dated April 29, 2024 and a Phase II ESA dated June 26, 2024. The Phase I ESA identified RECs associated with historic site use of adjoining properties including the parent parcel. A Phase II ESA was conducted by ECS to further evaluate the RECs.

### **1.4.1 Previous Site Investigations**

On June 6, 2024, ECS mobilized to the subject property with a geoprobe drilling contractor, Midwest Analytical Services, Inc. (MAS), of Ferndale, Michigan, with the objective of installing soil borings and, if groundwater was encountered, temporary groundwater monitoring wells, under the direct supervision of ECS personnel. A total of six soil borings (SB-1 through SB-6) were advanced for sample collection and field screening. MAS used hydraulic drive/direct-push (Geoprobe®) sampling techniques and generally followed the drilling procedures outlined in ASTM publication D 6282-98 "Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations".

Continuous soil samples were collected from the soil borings in four-foot intervals to the maximum depth explored of approximately 20 feet below ground surface (bgs). ECS personnel inspected, field-screened, and logged the soils at each soil boring location.

Soils collected from discrete sample intervals were screened using the PID to determine if volatile compounds were present. Soil from specific depths was placed in plastic bags, sealed, and allowed to volatilize. The headspace within each bag was then monitored with the PID. The PID can detect trace levels of organic compounds in the air space within the plastic bag.

Groundwater was encountered in each of the soil boring locations during the Phase II ESA activities. Groundwater samples were collected from SB-1 through SB-6 for potential laboratory analysis.

Soil/groundwater sample selection for laboratory analysis was based on field screening observations as well as the depth most likely to address the potential REC. The locations of the soil borings are depicted on **Figures 3 and 4**.

A Copy of the Phase II ESA is provided in **Appendix B**.

### 1.5 Known Contamination/Media Affected

Soil and groundwater samples were collected and analyzed during previous assessments. Refer to the following attachments for a summary of known contamination.

- **Figure 3** for a map depicting sampling locations with soil analytical results.
- **Figure 4** for a map depicting sampling locations with groundwater analytical results.
- **Table 1** for a summary of soil laboratory analysis results compared to current EGLE Residential Cleanup Criteria and Screening Levels.
- **Table 2** for a summary of groundwater laboratory analysis results compared to current EGLE Cleanup Criteria and Screening Levels.

### 1.6 Site Facility Status

Hazardous substances are present in excess of the concentrations which satisfy the requirements of subsection 20120a(1)(a) or (17), therefore, the property is classified as a facility pursuant to Part 201 of Michigan's NREPA, Public Act 451, as amended, and the rules promulgated thereunder.

The subject property is a facility due to the presence of soil and groundwater concentrations exceeding GRCC as follows:

- Arsenic, Lead, Mercury, Selenium, Benzo(a)pyrene, Fluoranthene, Naphthalene, Phenanthrene, Benzene, Ethylbenzene, Isopropylbenzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene and Xylenes were detected in soil samples at concentrations greater than their respective GRCC and/or VIAP Screening Levels.
- 10 Michigan Metals, Benzo(a)anthracene, Benzo(b)fluoranthene, Chrysene, Fluoranthene and Phenanthrene were detected in groundwater samples at a concentration greater than their respective GRCC.

## 2.0 PROPERTY INFORMATION

### 2.1 Legal Description of Site

A certified survey of the parent parcel (721 N. Main) and the new parcel (123 W. Summit) was provided by the Client. The legal description for the subject property parcel is described as follows:

New Parcel – 0.33 Acres
<i>BEGINNING at the Northeast corner of Lot 27 of Assessor's Plat No. 22, recorded in Liber 9 of Plats, Page 6, Washtenaw County Records, Washtenaw County, Michigan; thence S19°13'45"W 97.53 feet along the East line of said Lot 27; thence N70°48'46"W 40.15 feet; thence N19°59'47"E 16.24 feet along the West line of said Lot 27; thence N72°05'49"W 41.21 feet; thence S19°29'18"W 17.24 feet; thence N70°58'26"W 41.97 feet; thence S64°26'35"W 2.36 feet; thence S19°51'36"W 26.44 feet; thence N71°17'10"W 70.22 feet; thence N39°11'58"E 37.31 feet along the Westerly line of Lot 5 of said Assessor's Plat No. 22; thence N66°14'28"E 132.95 feet along the Southeasterly line of Lot 29 of said Assessor's Plat No. 22; thence S72°34'02"E 85.41 feet along the South Right-of-Way line of Summit Street (66 feet wide) to the POINT OF BEGINNING. Being part of Lots 5, 27 and 28 of Assessor's Plat No. 22, located in the SE1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, containing 0.33 acres of land, more or less. Being subject to any easements and/or restrictions, if any.</i>

### 2.2 Survey Map of Site

A Survey Map is included in **Appendix C**. The boundaries of the subject property are shown in **Figures 2 and 3**.

### 2.3 Sample Location and Analytical Summary Maps

ECS **Figures 3 and 4** provide maps with "Facility" sample locations and analytical data.

### 2.4 Site Location Map

ECS **Figures 1 and 2** provide a scaled topographic map and aerial map depicting the site location in relation to the surrounding area.

### 2.5 Site Address

The Site is located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan, 48103.

### 2.6 Site Spatial Data

The Subject Property consists of one legal parcel of land located on the south side of W. Summit Street, west of Main Street and east of Hiscock Street in the City of Ann Arbor, Washtenaw County, Michigan. The subject property is located in the southeast quarter of Section 20, T02S R6E. See Figure 1 for the Site Location Map.

According to Google maps, the site coordinates are: latitude (North) 42.288610 and longitude (West) -83.748711.

### 3.0 FACILITY STATUS OF SITE

As indicated in Section 1.9, based upon the documented exceedances of the Part 201 GRCC, the site is classified as a facility under Part 201 of P.A. 451, as amended, and the rules promulgated thereunder.

#### 3.1 Summary Data Table

Soil and groundwater samples were collected and analyzed during previous assessments. Refer to the following attachments for a summary of known contamination.

- **Figure 3** for a map depicting sampling locations with soil analytical results.
- **Figure 4** for a map depicting sampling locations with groundwater analytical results.
- **Table 1** for a summary of soil laboratory analysis results compared to current EGLE Cleanup Criteria and Screening Levels.
- **Table 2** for a summary of groundwater laboratory analysis results compared to current EGLE Cleanup Criteria and Screening Levels.

#### 3.2 Laboratory Reports and Chain of Custody Documentation

Soil and groundwater samples collected during previous assessments were submitted to an accredited laboratory for chemical analysis under chain of custody procedures. The laboratory analytical reports and associated chain of custody documentation are included as an attachment in **Appendix B**.

### 4.0 IDENTIFICATION OF AUTHOR

This report was conducted on January 19, 2026, by Ms. Julie Pratt and reviewed by Mr. Andrew J. Foerg, CPG. Professional resumes for Ms. Pratt and Mr. Foerg are provided as **Appendix D**.

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



Julie Anna Pratt  
Senior Project Professional



Andrew J. Foerg, CPG  
President

## **5.0 AAI REPORT OR ASTM PHASE I ESA**

As indicated in Section 1.3, ECS performed a Phase I ESA of the Site, dated January 13, 2026, completed in conformance with the scope and limitations of ASTM Practice E 1527-21. The scope of the Phase I ESAs included consideration of hazardous substances as defined in Section 20202(1)(x) of P.A 451 of 1994, as amended, and constituted the performance of an All Appropriate Inquiry in conformance with the standards and practices set forth in 40 CFR Part 312. A copy of the Phase I ESA is included in **Appendix A**.

## **6.0 REFERENCES**

Part 201 Rules (Tables 1-2, Residential Generic Cleanup Criteria)

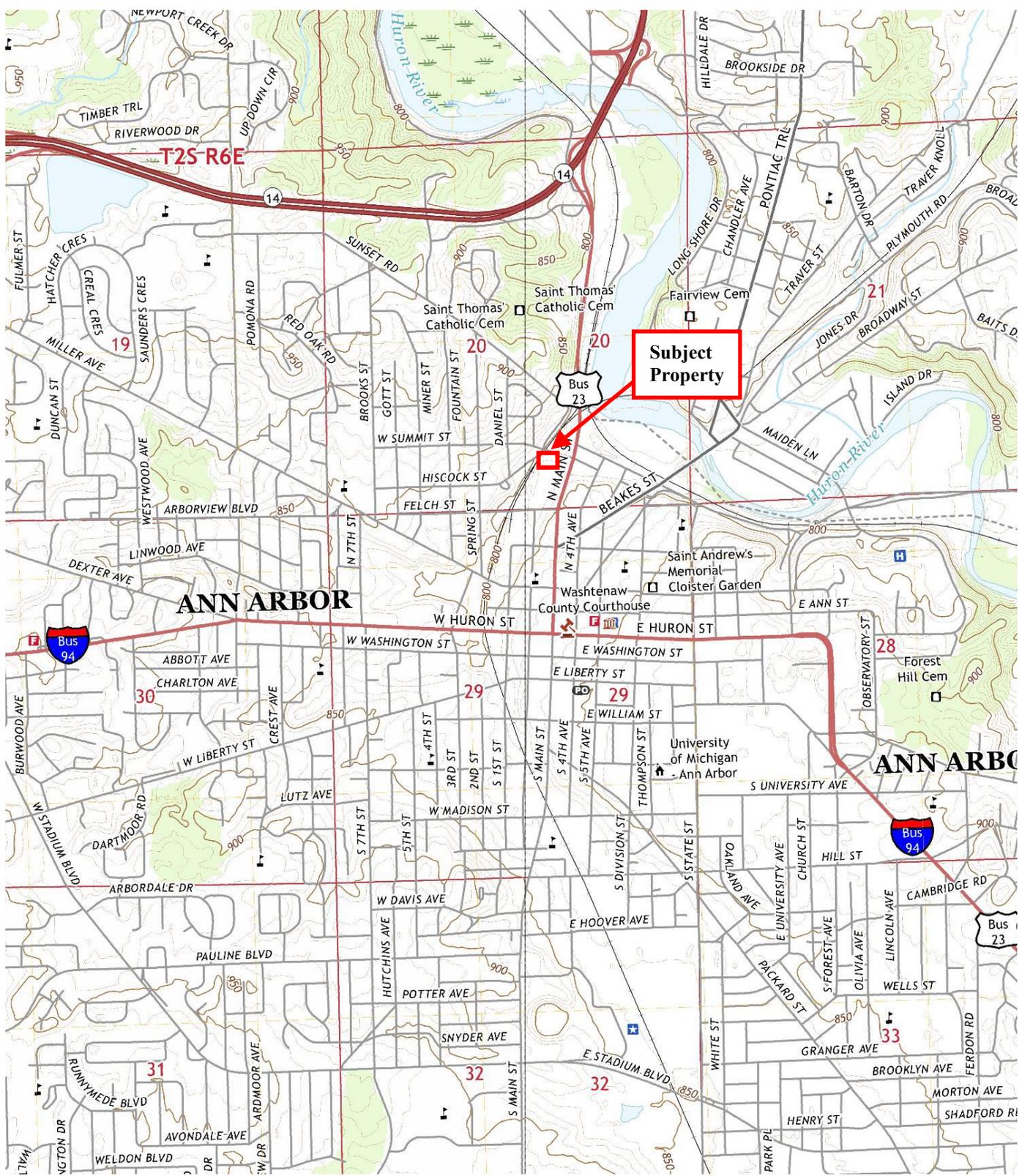
EGLE Baseline Environmental Assessment Submittal Form (EQP 4025), December 2024

Phase I ESA Report prepared by ECS dated January 16, 2026

Phase II ESA Report prepared by ECS dated June 26, 2024

## **FIGURES**

- Figure 1: Site Location Map
- Figure 2: Aerial Site Map
- Figure 3: Site Map with Soil Analytical Results
- Figure 4: Site Map with Groundwater Analytical Results



**Legend**


 Approximate Property Boundary









**LEGEND**

● Soil boring/temporary monitoring well location with analytical results

█ Approximate area of subject property parcel

**Red Bold** notes concentrations exceed GRCC and/or VIAP Screening Levels

ND = Not Detected <GRCC = Less than Generic Residential Cleanup Criteria

**Figure 4: Temporary Well Locations with Groundwater Analytical Results**

123 W. Summit  
 Ann Arbor, Michigan  
 ECS Project A121-0001-04

Source: Survey Map Prepared by Midwestern Consulting dated 02/2023



## **TABLES**

**TABLE 1  
SUMMARY OF DETECTED ANALYTE CONCENTRATIONS IN SOIL  
123 W. SUMMIT  
ANN ARBOR, MICHIGAN  
ECS PROJECT A121-0001-04**

Parameter*	Chemical Abstract Service Number	Statewide Default Background Level	EGLE Generic Part 201 Residential Cleanup Criteria and VIAP Screening Levels						Sample ID	SB-01	SB-01	SB-02	SB-03	SB-03	SB-04	SB-05	SB-06
			Drinking Water Protection	Groundwater Surface Water Interface Protection	Volatilization to Indoor Air	VIAP Screening Levels	Ambient Air Inhalation	Direct Contact	Units	ug/Kg							
			Date	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024
			Depth	2-4'	10-12'	4-6'	4-6'	12-14'	12-14'	0-2'	6-8'						
<b>Metals</b>																	
Arsenic	7440382	5,800	4,600	4,600	NLV	NLV	720,000	7,600		8,300	8,300	14,000	10,000	12,000	56,000	16,000	9,000
Barium	7440393	75,000	1,300,000	(G)	NLV	NLV	330,000,000	37,000,000		34,000	200,000	72,000	58,000	87,000	42,000	85,000	48,000
Cadmium	7440439	1,200	6,000	160,000 (G,X)	NLV	NLV	1,700,000	550,000		340	880	630	360	1,200	430	320	440
Chromium	16065831	18,000	1,000,000,000	270,000,000,000 (G,X)	NLV	NLV	330,000,000	790,000,000		16,000	6,800	11,000	9,200	8,300	9,500	10,000	11,000
Copper	7440508	32,000	5,800,000	(G)	NLV	NLV	130,000,000	20,000,000		20,000	27,000	38,000	15,000	48,000	37,000	25,000	28,000
Lead	7439921	21,000	700,000	33,000,000 (G,X)	NLV	NLV	100,000,000	400,000		17,000	430,000	94,000	37,000	58,000	460,000	24,000	31,000
Mercury	Varies	130	1,700	50 (M); 1.2	48,000	22 (M)	20,000,000	160,000		ND	460	50	48	ND	37	55	ND
Selenium	7782492	410	4,000	400	NLV	NLV	130,000,000	2,600,000		ND	990	250	ND	5,000	ND	ND	ND
Silver	7440224	1,000	4,500	100 (M); 27	NLV	NLV	6,700,000	2,500,000		ND	140	ND	ND	ND	ND	ND	ND
Zinc	7440666	47,000	2,400,000	(G)	NLV	NLV	ID	170,000,000		43,000	380,000	140,000	58,000	330,000	70,000	36,000	58,000
<b>Polynuclear Aromatic Compounds (PNAs)</b>																	
Acenaphthene	83329	NA	300,000	8,700	190,000,000	200,000	14,000,000,000	41,000,000		ND							
Acenaphthylene	208968	NA	5,900	ID	1,600,000	DATA	2,300,000,000	1,600,000		ND	ND	ND	1,600	ND	ND	560	ND
Anthracene	120127	NA	41,000	ID	1,000,000,000 (D)	13,000,000	67,000,000,000	230,000,000		ND	ND	ND	2,500	ND	ND	830	ND
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	160,000 (MM)	ID	20,000		240	290	1,000	6,200	ND	ND	3,700	ND
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	NA	ID	20,000		340	590	1,600	8,400	ND	ND	4,800	300
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NA	ID	200,000		ND	ND	730	3,700	ND	ND	2,100	ND
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NLV	800,000,000	2,500,000		ND	ND	380	2,300	ND	ND	1,200	ND
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NA	1,500,000	2,000		230	410	1,100	6,200	ND	ND	3,200	ND
Chrysene	218019	NA	NLL	NLL	ID	NA	ID	2,000,000		ND	ND	940	5,300	ND	ND	3,300	ND
Dibenzo(a,h)anthracene	53703	NA	NLL	NLL	NLV	NA	ID	2,000		ND	ND	ND	700	ND	ND	410	ND
Fluoranthene	206440	NA	730,000	5,500	1,000,000,000 (D)	NA	740,000,000	46,000,000		480	290	1,700	12,000	ND	ND	6,100	460
Fluorene	86737	NA	390,000	5,300	580,000,000	470,000	9,300,000,000	27,000,000		ND	ND	ND	620	ND	ND	240	ND
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NA	ID	20,000		ND	ND	480	2,700	ND	ND	1,200	ND
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,700	670,000,000	8,100,000		ND	ND	ND	250	ND	ND	300	ND
Naphthalene	91203	NA	35,000	730	250,000	67 (M)	200,000,000	16,000,000		ND	ND	ND	ND	ND	ND	230	ND
Phenanthrene	85018	NA	56,000	2,100	2,800,000	1,700	160,000	1,600,000		ND	ND	650	9,500	ND	ND	3,400	270
Pyrene	129000	NA	480,000	ID	1,000,000,000 (D)	25,000,000	650,000,000	29,000,000		470	300	1,600	10,000	ND	ND	5,000	410
<b>Volatile Organic Compounds (VOCs)</b>																	
Benzene	71432	NA	100	4,000 (X)	1,600	1.7 (M)	13,000	37,000,000		ND	ND	62	56	ND	ND	ND	ND
Ethylbenzene	100414	NA	1,500	360	87,000	12 (M)	720,000	22,000,000		ND	ND	90	230	ND	ND	ND	ND
Isopropylbenzene	98828	NA	91,000	3,200	400,000	3.8 (M)	1,700,000	25,000,000		ND	ND	74	49	ND	ND	ND	ND
n-propylbenzene	103651	NA	1,600	ID	ID	1,800 (DD)	1,300,000,000	2,500,000		ND	ND	78	80	ND	ND	ND	ND
Toluene	108883	NA	16,000	5,400	330,000	3,700	2,800,000	50,000,000		ND	ND	340	1,300	ND	140	ND	ND
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,700	1,500,000	8,100,000		ND	ND	ND	550	ND	ND	ND	ND
Naphthalene	91203	NA	35,000	730	250,000	67 (M)	300,000	16,000,000		ND	ND	ND	350	ND	ND	ND	ND
1,2,4-Trimethylbenzene	95636	NA	2,100	570	4,300,000	150 (JT)	21,000,000	32,000,000		ND	ND	270	410	ND	66	ND	ND
1,3,5-Trimethylbenzene	108678	NA	1,800	1,100	94,000	100 (JT)	16,000,000	94,000		ND	ND	87	130	ND	ND	ND	ND
1,2,3-Trimethylbenzene	526738	NA	NA	NA	NA	270 (JT)	NA	NA		ND	ND	260	150	ND	ND	ND	ND
Xylenes	1330207	NA	5,600	980	6,300,000	280 (J)	150,000	410,000,000		ND	ND	1,000	2,700	ND	300	ND	ND
Other VOCs	varies	NA	varies	varies	varies	varies	varies	varies		ND							

ND denotes Not Detected at or above Estimated Quantitation Limit  
 NA = Not Available or Not Applicable  
 ID = Inadequate data  
 NLV = Not likely to volatilize  
 NLL = Not likely to leach

**Bolded Red** value denotes that compound was reported at a concentration above the Residential Cleanup Criteria and/or VIAP

G= Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.

X= The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

D=Calculated criterion exceeds 100 percent; hence it is reduced to 100 percent or 1.0E+9 ppb.

DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure.

J = Isomer-specific concentrations shall be added together for comparison to criteria.

JT = When multiple isomers are detected, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP screening level of the detected isomers.

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

MM = Hazardous substance is a carcinogen with a mutagenic mode of action.

**TABLE 2**  
**SUMMARY OF DETECTED ANALYTE CONCENTRATIONS IN GROUNDWATER**  
**123 W. SUMMIT**  
**ANN ARBOR, MICHIGAN**  
**ECS PROJECT A121-0001-04**

Parameter*	Chemical Abstract Service Number	EGLE Generic Part 201 Residential Cleanup Criteria and VIAP Screening Levels				Sample ID	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06
		Drinking Water Protection	Groundwater Surface Water Interface Protection	Volatilization to Indoor Air	VIAP Screening Levels (GW not in Contact, > 10ft)	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
						Date	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024
						Depth	12-17'	13-18'	12-17'	13-18'	7-12'	12-17'
<b>Metals</b>												
Arsenic	7440382	<b>10(A)</b>	<b>10</b>	NLV	NLV	<b>2,600</b>	NA	ND	NA	<b>16</b>	<b>14</b>	
Barium	7440393	<b>2,000 (A)</b>	(G)	NLV	NLV	<b>46,000</b>	NA	160	NA	190	250	
Cadmium	7440439	<b>5.0 (A)</b>	(G,X)	NLV	NLV	<b>840</b>	NA	ND	NA	ND	<b>7.5</b>	
Chromium	16065831	<b>100 (A)</b>	(G,X)	NLV	NLV	<b>5,300</b>	NA	4.7	NA	34	38	
Copper	7440508	<b>1,000 (E)</b>	(G)	NLV	NLV	<b>13,000</b>	NA	18	NA	54	60	
Lead	7439921	<b>4.0 (L)</b>	(G,X)	NLV	NLV	<b>170,000</b>	NA	<b>34</b>	NA	<b>15</b>	<b>24</b>	
Mercury	Varies	<b>2.0 (A)</b>	<b>0.0013</b>	56	<b>2.5</b>	<b>34</b>	NA	ND	NA	ND	ND	
Selenium	7782492	<b>50 (A)</b>	<b>5.0</b>	NLV	NLV	<b>160</b>	NA	ND	NA	ND	ND	
Silver	7440224	34	<b>0.2 (M)</b>	NLV	NLV	<b>15</b>	NA	ND	NA	ND	ND	
Zinc	7440666	<b>2,400</b>	(G)	NLV	NLV	<b>200,000</b>	NA	290	NA	140	170	
<b>Polynuclear Aromatic Compounds (PNAs)</b>												
Benzo(a)anthracene	56553	<b>2.1</b>	ID	NLV	9.4 (S, MM)	NA	ND	<b>2.4</b>	NA	ND	ND	
Benzo(b)fluoranthene	205992	<b>1.5 (S)</b>	ID	NLV	NA	NA	ND	<b>3.2</b>	NA	ND	ND	
Benzo(a)pyrene	50328	5.0 (A)	ID	NLV	NA	NA	ND	2.1	NA	ND	ND	
Chrysene	218019	<b>1.6 (S)</b>	ID	ID	NA	NA	ND	<b>2.0</b>	NA	ND	ND	
Fluoranthene	206440	210 (S)	<b>1.6</b>	210 (S)	NA	NA	ND	<b>5.6</b>	NA	ND	ND	
Naphthalene	91203	520	11	31,000 (S)	130	NA	ND	1.8	NA	ND	ND	
Phenanthrene	85018	52	<b>2.0 (M)</b>	1,000 (S)	290	NA	ND	<b>5.1</b>	NA	ND	ND	
Pyrene	129000	140 (S)	ID	140(S)	140 (S)	NA	ND	5.3	NA	ND	ND	
Other PNAs	varies	varies	varies	varies	varies	NA	ND	ND	NA	ND	ND	
<b>Volatile Organic Compounds (VOCs)</b>												
VOCs	varies	varies	varies	varies	varies	ND	NA	ND	NA	ND	ND	

Notes:

ND denotes Not Detected at or above Estimated Quantitation Limit

ID = Inadequate data

NA = Not Available or Not Applicable

NLV = Not likely to volatilize

**Bolded Red** value denotes that compound was reported at a concentration above the Residential Cleanup Criteria and/or VIAP Screening Level

G= Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.

X= The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

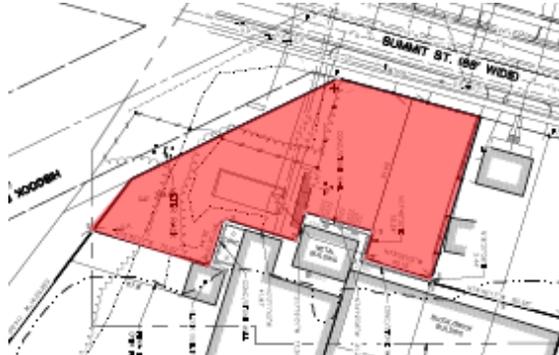
M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.

MM = Hazardous substance is a carcinogen with a mutagenic mode of action.

**Appendix A**  
**Phase I ESA Report**  
**(Selected Portions per EQP 4025)**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
123 W. SUMMIT  
ANN ARBOR, WASHTENAW COUNTY, MICHIGAN**

**ECS PROJECT A121-0001-04**



**JANUARY 13, 2026**

**Prepared for:**

**ANN ARBOR HOUSING DEVELOPMENT CORPORATION  
2000 S. INDUSTRIAL  
ANN ARBOR MI 48104  
ATTN: JENNIFER HALL**

**Submitted by:**



**523 W. SUNNYBROOK DRIVE  
ROYAL OAK, MICHIGAN 48073  
(248) 763-3639  
[www.environmentalconsultingsolutions.com](http://www.environmentalconsultingsolutions.com)**



environmental consulting solutions  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073

January 13, 2026

ECS Project A121-0001-04

Jennifer Hall  
Ann Arbor Housing Development Corporation  
2000 S. Industrial  
Ann Arbor MI 48104

**RE: Phase I Environmental Site Assessment  
123 W. Summit  
Ann Arbor, Washtenaw County, Michigan**

Dear Ms. Hall:

Environmental Consulting Solutions, LLC (ECS) has completed a Phase I Environmental Site Assessment (ESA) of the property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The results of the Phase I ESA are presented in the attached Report.

We are pleased to provide this service and hope that we can be of service in the future. Should you have any questions or require further information, please do not hesitate to call us at (248) 763-3639.

Respectfully submitted,  
Environmental Consulting Solutions, LLC

A handwritten signature in black ink that reads 'Julie Pratt' in a cursive style.

Julie Anna Pratt  
Senior Project Professional

A handwritten signature in black ink that reads 'Andrew J. Foerg' in a cursive style.

Andrew J. Foerg, CPG  
President

Enclosures

TABLE OF CONTENTS

EXECUTIVE SUMMARY ..... 1

1.0 INTRODUCTION..... 3

    1.1 ASSESSMENT OBJECTIVES..... 4

    1.2 PHASE I ESA SCOPE OF WORK..... 4

    1.3 PHASE I ESA SIGNIFICANT ASSUMPTIONS..... 5

    1.4 RELIANCE STATEMENT ..... 5

    1.5 VIABILITY..... 5

    1.6 LIMITATIONS AND EXCEPTIONS..... 6

2.0 SUBJECT PROPERTY DESCRIPTION..... 7

    2.1 SUBJECT PROPERTY LOCATION AND LEGAL DESCRIPTION..... 7

    2.2 SUBJECT PROPERTY AND VICINITY CHARACTERISTICS ..... 7

3.0 USER/CLIENT PROVIDED INFORMATION..... 7

    3.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS..... 8

    3.2 TITLE RECORDS..... 8

    3.3 USER SPECIALIZED KNOWLEDGE..... 8

    3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION..... 8

    3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES..... 8

    3.6 REASON FOR PERFORMING THE PHASE I ESA..... 8

    3.7 OTHER USER INFORMATION ..... 9

4.0 PHYSICAL SETTING ..... 10

    4.1 SITE LOCATION ..... 10

    4.2 TOPOGRAPHY ..... 10

    4.3 GEOLOGY..... 10

    4.4 DRAINAGE PATTERNS..... 10

    4.5 LOCAL GROUNDWATER FLOW..... 10

5.0 REGULATORY RECORDS ..... 11

    5.1 STANDARD GOVERNMENT ENVIRONMENTAL RECORDS..... 11

        5.1.1 SITE SUMMARY ..... 11

        5.1.2 SURROUNDING PROPERTY SUMMARY ..... 12

        5.1.3 ORPHAN SITES..... 12

    5.2 REGULATORY AGENCY FILE AND RECORDS REVIEW..... 12

    5.3 LOCAL ENVIRONMENTAL RECORDS..... 13

6.0 HISTORICAL RECORDS ..... 15

    6.1 AERIAL PHOTOGRAPHS..... 15

    6.2 HISTORICAL TOPOGRAPHIC MAPS ..... 15

    6.3 SANBORN FIRE INSURANCE MAPS ..... 16

    6.4 CITY DIRECTORIES..... 16

    6.5 PREVIOUS ENVIRONMENTAL DOCUMENTATION ..... 17

    6.6 HISTORICAL USE SUMMARY..... 17

7.0 SITE AND AREA RECONNAISSANCE ..... 19

    7.1 METHODOLOGY AND LIMITING CONDITIONS..... 19

    7.2 CURRENT USE(S) OF THE SUBJECT PROPERTY..... 19

    7.3 PAST USE(S) OF THE SUBJECT PROPERTY..... 19

    7.4 CURRENT USE(S) OF THE ADJOINING PROPERTIES..... 19

    7.5 PAST USE(S) OF THE ADJOINING PROPERTIES ..... 20

    7.6 CURRENT OR PAST USE(S) OF THE SURROUNDING AREA..... 20

---

7.7 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS.....	20
7.8 STRUCTURES AND OTHER IMPROVEMENTS ON THE SUBJECT PROPERTY .....	20
7.9 ROADS .....	20
7.10 UTILITIES, WELLS AND SEPTIC SYSTEMS .....	20
7.11 CHEMICAL USE AND STORAGE.....	20
7.12 STORAGE TANK SYSTEMS .....	21
7.13 ODORS.....	21
7.14 SURFACE WATER, POOLS, SUMPS .....	21
7.15 SUSPECTED POLYCHLORINATED BIPHENYL-CONTAINING EQUIPMENT.....	21
7.16 STAINS OR CORRASION ON FLOORS, WALLS OR CEILINGS .....	21
7.17 DRAINS AND SUMPS .....	21
7.18 STAINED SOIL OR PAVEMENT .....	21
7.19 VEGETATION .....	21
7.20 SOLID WASTE DISPOSAL.....	21
7.21 WASTE/WASTEWATER.....	21
7.22 WELLS.....	22
8.0 INTERVIEWS.....	23
8.1 INTERVIEW WITH SITE OWNER.....	23
8.2 INTERVIEW WITH SITE OPERATOR/OCCUPANT .....	23
8.3 INTERVIEW WITH SITE MANAGER/OTHER.....	23
8.4 INTERVIEWS WITH STATE LOCAL AND GOVERNMENT OFFICIALS.....	23
9.0 ASSESSMENT OF POTENTIAL VAPOR ENCROACHMENT CONDITIONS (VECS) .....	24
10.0 NON-SCOPE CONSIDERATIONS .....	25
11.0 FINDINGS AND OPINIONS .....	26
12.0 CONCLUSIONS AND RECOMMENDATIONS .....	26
12.1 CONCLUSIONS.....	27
12.2 DATA GAPS.....	27
12.3 LIMITING CONDITIONS/DEVIATIONS.....	27
12.4 ADDITIONAL INVESTIGATION.....	27
12.5 RECOMMENDATIONS .....	28
13.0 REFERENCES .....	28
14.0 QUALIFICATIONS AND ENVIRONMENTAL PROFESSIONAL STATEMENT .....	29

### **List of Figures**

Figure 1:	Site Location Map
Figure 2:	Aerial Site Map
Figure 3:	Survey Map

### **List of Appendices**

Appendix A	Site Photographs
Appendix B	Client Provided Documentation
Appendix C	Environmental Database Report
Appendix D	Local/State/Federal Documentation
Appendix E	Aerial Photographs
Appendix F	Historical Topographic Maps
Appendix G	Sanborn Fire Insurance Maps
Appendix H	City Directory Listings

## EXECUTIVE SUMMARY

Environmental Consulting Solutions, LLC (ECS) was retained to perform a Phase I Environmental Site Assessment (ESA) of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The Phase I ESA was performed in general accordance with All Appropriate Inquiry (AAI) and the American Society for Testing Materials (ASTM) Designation E1527-21 guidelines for Phase I ESAs, except as noted under the Limitations and Exceptions.

The Report was prepared for use by Ann Arbor Housing Development Corporation, who may rely upon the findings of the Report.

### **Purpose:**

The Phase I ESA was conducted to identify to the extent feasible pursuant to ASTM E 1527-21, Recognized Environmental Conditions (RECs) in connection with the subject property associated with a prospective property transaction.

As defined in the ASTM Designation E 1527-21, the term Recognized Environmental Condition means: *(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.*

ECS endeavored to perform All Appropriate Inquiries (40 CFR 312 and industry standards) in allowing a user to satisfy the requirements to qualify for one of the affirmative defenses to CERCLA liability, such as Third Party Defense, Innocent Landowner Defense, and Landowner Liability Protections (LLPs) (such as Bona Fide Prospective Purchaser or Contiguous Property Owner). Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject property.

### **Scope of Work:**

The Phase I ESA is a compilation of information obtained from, but not limited to, User's responsibilities, physical setting resources, government records, historical records, site reconnaissance, and owner/operator/occupant and local governmental officials' interviews.

### **General Property Information:**

The subject property for the purpose of this Phase I ESA is approximately 0.33 acres of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. The subject property consists of land being separated from the parent parcel, 721 N. Main Street, which most recently operated as the City of Ann Arbor municipal garage. The subject property is located in a mixed use, heavily developed area in downtown Ann Arbor, Michigan.

The subject property location is presented in Figure 1. The subject property general features are presented in Figure 2, Aerial Site Map. A survey of the subject property is presented in Figure 3, Survey Map.

The subject property and parent parcel details as obtained from Washtenaw County and City of Ann Arbor municipal records are summarized in the following table:

Parent Parcel	Parent Parcel Address	Subject Property Parcel Address	Subject Property Parcel Details
09-09-20-409-006	721 N. Main	119-123 W. Summit	~0.33-acre fronting W. Summit

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with vegetation. The adjoining properties include mixed use with commercial and residential to the north, railroad to the west, single family residential along Summit Street to the east, and vacant land (former commercial/industrial) to the south.

Historical documentation indicates the site was first developed sometime circa 1917 for residential use (city directory). The property was redeveloped as a parking lot for the adjoining industrial/municipal property to the south. No other known uses were identified.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000 gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identifies the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

Previous assessment was conducted on the subject property. A Phase II ESA was conducted in 2024 to assess RECs identified during a previous Phase I ESA dated April 29, 2024. The results indicated soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the property being classified as a "facility".

### **Conclusions:**

In the professional opinion of ECS, appropriate inquiry has been made into the current and past uses of the subject property consistent with good commercial and customary practice in an effort to minimize liability.

ECS has performed a Phase I ESA in conformance with the scope and limitations of AAI and ASTM E 1527-21 of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 12 of this Report.

**This assessment has revealed no evidence of RECs, Historic RECs, Controlled RECs, or VECs in connection with the subject property, with the exception of the following:**

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.
- Phase II ESA activities conducted in on the subject property in 2024 to assess the subject property confirmed soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the subject property being classified as a "facility".

No data failures as defined in ASTM E 1527-21 were encountered during the completion of the Phase I ESA and no significant limitations were noted during the site reconnaissance, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site observations at the time of the site reconnaissance due to snow cover.

The data gaps, failures and/or limitations were not determined to be material in identifying RECs and/or they are not considered by ASTM standard to be significant based on additional information gathered and ability to draw a conclusion regarding the prior use of the subject property from the sources reviewed.

## 1.0 INTRODUCTION

Environmental Consulting Solutions, LLC (ECS) was retained to perform a Phase I Environmental Site Assessment (ESA) of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The subject property location is presented in Figure 1.

### 1.1 Assessment Objectives

This Phase I ESA study was conducted in general accordance with the scope and limitations recommended by the American Society for Testing and Materials (ASTM) in their document E 1527-21, titled: "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*". Any exceptions are noted under Limitations and Exceptions found in Section 1.5.

The Phase I ESA was performed in accordance with the United States Environmental Protection Agency's (USEPA) rule identifying federal standards and processes for conducting All Appropriate Inquiry (AAI) codified in Federal Regulation - *40 Code of Federal Regulations (CFR) Part 312 - Standards and Practices for All Appropriate Inquiries*.

The objective of the Phase I ESA is to identify, to the extent feasible in accordance with E1527-21, recognized environmental conditions in connection with the subject property.

According to Section 1.1 of the cited standard, "the purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)... and petroleum products". As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability...; that is, the practices that constitute "all appropriate inquiry into the previous ownership and use of the property consistent with good commercial or customary standards and practices" as defined in 42 USC § 9601(35)(B)."

The Phase I ESA was conducted to provide information regarding the potential for environmental concerns associated with a prospective property transaction.

### 1.2 Phase I ESA Scope Of Work

The Scope of Services for conducting a Phase I ESA outlined in ASTM practice E 1527-21 and EPA's standards for AAI outlined in *40 CFR Part 312* typically includes the following components: User's responsibilities, physical setting resources, government records, historical records, site reconnaissance, and owner/operator/occupant and local governmental officials' interviews.

In order to fulfill the objectives of this Phase I ESA and meet or exceed due diligence requirements, the following tasks were completed:

- A visual survey of the subject property to identify areas of potential environmental concern. Color photographs were taken to document conditions of the subject property at the time of the site reconnaissance.

- A visual observation of neighboring properties or facilities from the subject property or public access areas to assess whether surface conditions on these properties may have adverse environmental impact on the subject property.
- Collection and review of existing published information relating to general geology, hydrogeology, and topographical information for the subject property and area surrounding the subject property.
- Historical land use review of the subject property and adjoining properties and the surrounding area back to 1940 or the first developed use, whichever occurred earlier.
- A regulatory agency file search to identify federal and state listed sites of known or potential environmental concern located within the minimum search distances from the subject property as specified in ASTM E 1527-21 and EPA's All Appropriate Inquiry codified in federal regulation - *40 CFR, Part 312*.
- Interviews with the subject property owner, the owner's representative(s), representatives of the state, county, and local regulatory agencies, or other persons with knowledge of the subject property.
- Evaluation of compiled information and preparation of a report.

The scope of work does not fulfill the requirements for a regulatory compliance audit, nor does it guarantee a zero-risk level of environmental impairment liability.

This Phase I ESA does not purport to address safety concerns, if any, at the subject property. It also does not establish appropriate safety and health practices, or determine the applicability of health and safety regulatory limitations at the subject property.

### 1.3 Phase I ESA Significant Assumptions

ECS has used and incorporated information provided by private organizations and individuals, as well as municipal, state and federal agencies. However, the Phase I ESA scope of work does not include the independent verification or confirmation of the reliability of this information.

### 1.4 Reliance Statement

ECS realizes that the Report was prepared for use by the Ann Arbor Housing Development Corporation. The named parties may rely upon the findings of the Report.

### 1.5 Viability

The collection dates for each component comprising the Phase I ESA are provided as follows:

Viability of Phase I ESA	
Site Contact Interview	12/8/2025
Environmental Lien Search	12/8/2025
Regulatory Records Review	12/11/2025
Site Reconnaissance	12/8/2025
Declaration of Assessment	1/13/2026

According to ASTM 1527-21, a Phase I ESA is considered valid if the required components were completed within 180 days prior to the date of acquisition (or date of the intended transaction). A Phase I ESA Update is required if the report is older than 180 days.

## **1.6 Limitations And Exceptions**

This report was prepared for, and can be relied upon by, those authorized parties who have been specifically identified herein. Other use or reliance, implied or otherwise, by any other party is strictly prohibited unless authorized and acknowledged by ECS in writing.

Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject property. ECS has used and incorporated information provided by private organizations and individuals, as well as municipal, state and federal agencies. However, the Phase I ESA scope of work does not include the independent verification or confirmation of the reliability of this information.

This report is intended to serve only as an indicator of the potential for environmental impairment arising from readily discoverable, improper chemical, waste management and/or disposal activities conducted at the subject property or in the immediate vicinity of the subject property. Regardless of the findings stated in this report, ECS is not responsible for consequences or conditions arising from facts that were concealed, withheld, not fully disclosed, or not readily accessible at the time the assessment was conducted.

Given the availability of data, probable future adjustments in industry standards, the limited scope of due diligence investigations, the future inclusion of new contaminated sites to agency databases, and the further development of information resources, the resulting environmental liability disposition of the subject property is subject to change with time and this Phase I ESA does not guarantee a zero-risk level of environmental impairment liability.

The Executive Summary to the Phase I ESA is intended to be used as an overview of the complete Report findings. The Executive Summary is not intended to be used as a stand-alone document. Interpretation of the conclusions and recommendations should be based on the Report in its entirety. The Phase I ESA report does not represent a legal opinion. Legal opinions regarding potential environmental liability issues as they relate to the subject property and the Phase I ESA should be obtained from a qualified attorney.

## 2.0 SUBJECT PROPERTY DESCRIPTION

### 2.1 Subject Property Location And Legal Description

The subject property for the purpose of this Phase I ESA is approximately 0.33 acres of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. The subject property consists of land being separated from the parent parcel, 721 N. Main Street, which most recently operated as the City of Ann Arbor municipal garage. The subject property is located in a mixed use, heavily developed area in downtown Ann Arbor, Michigan.

The subject property location is presented in Figure 1. The subject property general features are presented in Figure 2, Aerial Site Map. A survey map of the parent parcel and subject property is presented in Figure 3, Survey Map.

The subject property and parent parcel details as obtained from Washtenaw County and City of Ann Arbor municipal records are summarized in the following table:

Parent Parcel	Parent Parcel Address	Subject Property Parcel Address	Subject Property Parcel Details
09-09-20-409-006	721 N. Main	119-123 W. Summit	~0.33-acre fronting W. Summit

A certified survey of the parent parcel (721 N. Main) and the new parcel (123 W. Summit) was provided by the Client. The legal description for the subject property parcel is described as follows:

<b>New Parcel – 0.33 Acres</b>
<i>BEGINNING at the Northeast corner of Lot 27 of Assessor's Plat No. 22, recorded in Liber 9 of Plats, Page 6, Washtenaw County Records, Washtenaw County, Michigan; thence S19°13'45"W 97.53 feet along the East line of said Lot 27; thence N70°48'46"W 40.15 feet; thence N19°59'47"E 16.24 feet along the West line of said Lot 27; thence N72°05'49"W 41.21 feet; thence S19°29'18"W 17.24 feet; thence N70°58'26"W 41.97 feet; thence S64°26'35"W 2.36 feet; thence S19°51'36"W 26.44 feet; thence N71°17'10"W 70.22 feet; thence N39°11'58"E 37.31 feet along the Westerly line of Lot 5 of said Assessor's Plat No. 22; thence N66°14'28"E 132.95 feet along the Southeasterly line of Lot 29 of said Assessor's Plat No. 22; thence S72°34'02"E 85.41 feet along the South Right-of-Way line of Summit Street (66 feet wide) to the POINT OF BEGINNING. Being part of Lots 5, 27 and 28 of Assessor's Plat No. 22, located in the SE1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, containing 0.33 acres of land, more or less. Being subject to any easements and/or restrictions, if any.</i>

A copy of the certified land survey is included in **Appendix B**.

### 2.2 Subject Property And Vicinity Characteristics

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be snow covered land with vegetation. The adjoining properties include mixed use with commercial and residential to the north, railroad to the west, single family residential along Summit Street to the east, and vacant land (former commercial/industrial) to the south.

### 3.0 USER/CLIENT PROVIDED INFORMATION

Consistent with the requirement of AAI and ASTM E1527-21, ECS provided the user(s) of the Phase I ESA with a questionnaire regarding their specific knowledge of property environmental conditions. Mr. Tom Pierce, representing the Ann Arbor Housing Commission, provided a completed Questionnaire.

#### 3.1 Environmental Liens Or Activity And Use Limitations

ECS reviewed a copy of the current EGLE *Remediation and Redevelopment Division Perfected Lien List*. There was no information regarding environmental liens encumbering the subject property. (<https://www.michigan.gov/egle/about/organization/remediation-and-redevelopment/rrd-enforcement-perfected-lien-list>).

Evaluation of the EGLE Ride Mapper on line database did not identify AULs associated with the subject property or adjoining properties. There is a Land Use Restriction in the Ann Arbor area due to groundwater contamination emanating from the Pall Life Sciences (PLS) (formerly known as Gelman Sciences Inc.) facility in Scio Township, Washtenaw County. The subject property is located in the "Prohibition Zone" related to the prohibition of groundwater use. A copy of the order prohibiting groundwater use is included as an attachment in **Appendix D**. (<https://www.michigan.gov/egle/maps-data/ride-mapper>)

#### 3.2 Title Records

ECS was provided with limited title documentation for the parent parcel, consisting of a right-of-way agreement for utilities and roads, as well as a building and use deed restriction for the floodway portion of the Parent Parcel. ECS was provided with a Land Division Survey depicting the parent parcel and subject property parcel. A copy of the client provided title documentation is included in **Appendix B**.

#### 3.3 User Specialized Knowledge

ECS was not provided with any User specialized knowledge.

#### 3.4 Commonly Known Or Reasonably Ascertainable Information

Mr. Pierce indicated past use of the parent parcel included the City of Ann Arbor public works facility. Mr. Pierce indicated the former operation of a natural gas filling station for DTE. A Phase II ESA conducted by ECS in 2024 was referenced (Section 6.5).

#### 3.5 Valuation Reduction For Environmental Issues

ECS was not provided with information pertaining to a valuation reduction of the subject property for environmental issues.

#### 3.6 Reason For Performing The Phase I ESA

The Phase I ESA was conducted to provide a viable Phase I ESA associated with a prospective property transaction.

### **3.7 Other User Information**

No other information regarding possible environmental conditions at the subject property was provided by the User/Client.

## **4.0 PHYSICAL SETTING**

### **4.1 Site Location**

The Subject Property is situated on the south side of W. Summit, west of Main Street and east of Hiscock Street in downtown Ann Arbor, Michigan. The subject property is located in Section 20, T2S R6E. See Figure 1 for the Site Location Map.

### **4.2 Topography**

Based on the site reconnaissance and review of the USGS Topographic Maps, the topography of the parcel is sloped with a general topographic gradient to the east-southeast. The site elevation is approximately 790 feet +/- above mean sea level. The south end of the parcel slopes to the south, with a significant decrease in elevation towards the parent parcel to the south.

### **4.3 Geology**

The Quaternary Geology obtained through EGLE GeoWebFace online resources indicated the surficial geology in the vicinity of the subject property consisted of end moraines of fine-textured till. The bedrock geology was identified as Coldwater Shale.

### **4.4 Drainage Patterns**

Based on the USGS Topographic Maps, and the EDR Radius Map report Geocheck physical setting, the drainage in the area surrounding the subject property was primarily to the east-southeast. The Huron River is located approximately 800 feet +/- to the northeast of the subject site.

### **4.5 Local Groundwater Flow**

Generally, groundwater flow direction would be expected to be consistent with surface water flow and local topography and dependent upon seasonal variation in precipitation. Therefore, it is likely that the groundwater flow direction in the area of the subject property will be toward a nearby surface water or in the direction of flow of the nearby Huron River.

## 5.0 REGULATORY RECORDS

### 5.1 Standard Government Environmental Records

As part of the current study, readily available regulatory database information was reviewed to assess the possible risk for environmental liabilities from regulatory action, hazardous material spills, or documented hazardous waste disposal at the subject property or surrounding properties.

Environmental Data Resources Inc. (EDR) was retained to perform a regulatory agency database search to evaluate the possible presence of federal and state listed sites of known or potential environmental concern that may be located within the recommended minimum search distances from the subject property as specified in ASTM E 1527-21 and EPA's final rule for AAI.

A list of the federal and state databases researched by EDR for the current study, including a brief description of each database searched and their respective search distance radius is presented Appendix C, EDR Radius Map™ Report.

A total of 217 listings (some properties listed multiple times) were identified in the environmental records on the database report.

#### 5.1.1 Site Summary

The subject property parent parcel was identified in numerous governmental databases.

SITE NAME	ADDRESS	DATABASES	*DIST (ft)
City of Ann Arbor Garage, City Garage, Former DPW, City of Ann Arbor	721 N. Main Street	UST, UST Finder Release, RCRA NonGen/NLR, FINDS, ECHO, LUST, Inventory, Part 201, WDS, AST, US Brownfields, AIRS, Asbestos, E Manifest	Adjoining South

The database listings included a RCRA listing which confirms the former generation of hazardous waste. NAICS codes were identified as "automotive body, paint, and interior repair and maintenance", as well as "automotive oil change and lubrication shops". There were no violations noted. The LUST status is identified as "closed" and USTs are identified as removed or closed in place. The ASTs listing documents removal of former ASTs. The Inventory/Part 201 listings document the current risk condition as "risks controlled-interim". The AIRS listing identified a permit dated 1996 associated with a soil and groundwater remediation system. The US Brownfields listing documented the use of a Petroleum grant for Phase II ESA conducted in 2012/2013. The Asbestos listing identified asbestos removal activities in October/November 2024.

A FOIA request for available regulatory records was completed for the subject property parent parcel (refer to Section 5.2).

### 5.1.2 Surrounding Property Summary

The EDR report identified twenty-nine (29) listings within 1/8 mile from the subject property. Using the EDR Lightbox online tools, ECS further evaluated the listings located within 400 feet of the subject property. The following listings were noted:

SITE NAME	ADDRESS	DATABASES	*DIST (ft)
815 Wildt St.	815 Wildt St.	Inventory, Part 201, BEA, WDS	354 northwest
Super Test Petroleum, Melvin & Betty Lewis	800 N. Main	Brownfields, US Brownfields, FINDS, EDR Hist Auto, UST, LUST, Inventory UST Finder, UST Finder Release	341 east

\*Distance as listed in EDR Radius Map Report.

Both sites in the above table have documented soil and/or groundwater contamination ( i.e. Inventory, BEA). A FOIA request for available regulatory records is warranted for these nearby addresses (refer to Section 5.2).

The remaining listings in the EDR Radius Report do not appear to present a concern to the subject property based on the distance from the subject property, the type of listing, inferred geology/hydrogeology, and/or the potential for engineered barriers between the sites routing subsurface contamination away from the subject property.

### 5.1.3 Orphan Sites

An orphan site is a property that has been identified by EDR as a site within a zip code that has insufficient address information available to accurately plot the property on their map. A review of the EDR Radius Map™ Report indicates that one orphan site was identified during their regulatory database search. Using the information provided in the orphan summary, ECS confirmed the orphan listing to be located at a distance that does not present potential for negative impact.

## 5.2 Regulatory Agency File And Records Review

In accordance with the Standard, if the subject property or any of the immediately adjoining properties are identified on one or more of the standard government environmental record resources, pertinent regulatory files and/or records associated with the listing should be reviewed. The purpose of the regulatory file review is to obtain sufficient information to assist the Environmental Professional in determining if a REC, HREC, CREC or de minimis condition exists at the subject property in connection with the listing.

Based on the findings summarized in Sections 5.1.1 and 5.1.2, regulatory agency records review was warranted for the subject property parent parcel and nearby properties with documented releases. ECS previously submitted a FOIA request for records to the Michigan Department of Environment, Great Lakes and Energy (EGLE). The results are summarized in the following sections.

### 721 N. Main – Subject Property Parent Parcel

Numerous historic records were available for the parent parcel. Much of the work was completed in the 1990's. The processes and procedures as well as analytical testing methods and cleanup criteria have

changed significantly since then and the site may be considered non-compliant in accordance with current guidelines and standards.

Some of the observations from review of the documentation included the following:

- Fill material was observed across the site, consisting of silty sand, clayey silt, silty clay and organic matter, including occasional debris.
- The parent parcel is a former landfill where open burning occurred.
- Limited groundwater flow results suggested a southeast flow direction.
- Most of the UST/LUST related assessment was conducted towards the south end of the maintenance building.

The most recent documentation for the parent parcel appears to be a Due Care Plan, dated August 2013, prepared by Tetra Tech. The dispenser situated on the west adjoining parcel was referenced as a CNG dispenser. A former gasoline AST was noted on the parent parcel adjoining to the west of the subject property parcel. It appears that a former street maintenance garage was situated on or immediately adjoining the south portion of the subject property parcel.

A Phase I ESA completed for the parent parcel dated October 2012 identified numerous RECs associated with the parent parcel. The RECs included (but not limited to) the following:

- Stained soils;
- Former USTs;
- Former 16,000-gallon gasoline AST in the northwest corner of the property;
- Soil and groundwater contamination associated with the former gasoline and diesel ASTs
- Soil contamination associated with the former chloride ASTs
- Soil contamination associated with long term road salt storage
- Soil contamination associated with former hydraulic oil USTs/trenches
- Use, storage and handling of petroleum products and other hazardous materials associated with former site activities
- Rail spur on the western side of the site.

### **815 Wildt. Street – Nearby Property to the Northwest**

EGLE provided two files for the nearby property. A Master Data Form generated for the nearby property identified the site as Ann Arbor Bearing and Manufacturing. An incident was reported in 2001: drums of naphtha and oils were noted in an outbuilding behind the abandoned factory. Follow up determined the building was not abandoned and the garage with barrels is their product storage area.

A BEA report dated June 2001 was also provided. The BEA confirmed historic use of the nearby property as Star Motor Company motor truck assembling facility, including identified of USTs, as well as Ann Arbor Bearing and Manufacturing Company, manufacturing precision ground metal parts. Limited subsurface investigation was completed at the nearby property, including six geoprobe soil borings and three hand

auger soil borings to a maximum explored depth of 8 feet bgs. VOCs, PNAs and metals were detected at concentrations greater than their respective Generic Residential Cleanup Criteria.

ECS measured the distance from the subject property parcel to the nearby property to be approximately 220 feet. The subject property parcel appears to be downgradient from the Wildt street property, indicating the potential for negative impact to the subject property.

### **800 N. Main – Nearby Property to the East**

EGLI provided several files for the nearby property. An Environmental Real Estate Assessment Report dated April 2002 was prepared for the nearby property on behalf of the Washtenaw County Brownfield Redevelopment Authority. Historic use of the nearby property was a filling/gasoline station with USTs. A Subsurface Investigation Report dated November 2002 summarized limited subsurface assessment including three geoprobe soil borings advanced to approximately 16 feet bgs. Petroleum VOCs were detected in soil and groundwater at concentrations exceeding the Generic Residential Cleanup Criteria.

Further assessment was conducted at the nearby property circa 2021 funded through EGLI triage services. Soil, groundwater and soil-gas sampling was conducted. VOCs and PNAs were detected at concentrations greater than their respective Generic Residential Cleanup Criteria in soil, groundwater and/or soil-gas.

ECS measured the distance from the subject property parcel to the nearby property to be approximately 330 feet. The subject property parcel appears to be upgradient from the 800 N. Main street property, indicating the potential for negative impact to the subject property appears minimal.

### **5.3 Local Environmental Records**

ECS previously submitted a FOIA request to the City of Ann Arbor. Records were requested from the Assessing Department, Fire Department and Building Department. ECS also evaluated additional online City internet addresses for additional public records.

The following items were noted:

- Records for 123 W. Summit were not available.
- The 721 N. Main Parcel is owned by City of Ann Arbor Transportation. Permits identified on the record card include references to natural gas refueling station, fuel pump island/canopy, remove USTs.
- Historic records identified the parent parcel as the municipal garage. Permits identified on the record card include reference to garages, installation of USTs, ASTs.
- Online permit related items included reference to monitoring wells installed on the parent parcel associated with contamination from the nearby bulk plan to the south/southwest.

ECS also requested available records from the Washtenaw County Environmental Health Department. Limited records were provided associated with the historic UST confirmed releases, a surface spill of gasoline (~10 gallons), and a plumbing investigation confirming illicit discharges to the Allen Creek Storm Drain. A copy of the municipal records is included in Appendix D.

## 6.0 HISTORICAL RECORDS

Historical usage of the subject property and adjoining properties was referenced through reasonably ascertainable records which may have included, but were not necessarily limited to, aerial photographs, historic fire insurance maps (when available), city directories, interviews with persons knowledgeable of subject property conditions, and previous site assessments. See Section 13.0 for references for the records that were reviewed.

### 6.1 Aerial Photographs

Aerial photographs of the subject property and surrounding area were reviewed. The aerial photographs depicted the following:

Year	Subject Property Observations
1937-1940	The quality and scale of the photograph limits observations.
1949-1955	The subject property appears developed with small structure(s).
1962-2006	The subject property appears to be used for vehicle parking.
2009-2020	The west portion remains parking; the east portion is grass/vegetation.

Year	Adjoining Property Observations
1937-1969	The surrounding area is heavily developed. A railroad adjoins to the west. Structures are noted to the north and east (scale limits observations). A large commercial/industrial building is noted to the south.
1973-2020	Adjoining property to the west is the railroad. Land to the north of Summit is used for parking/landscaping for the adjoining commercial building. East adjoining appears residential. South remains commercial/industrial use.

Except as discussed above, the scale and resolution of the aerial photographs limited observation of special features, such as relief, areas of staining, soil disturbances or areas of outdoor storage.

The subject property was developed for what appears to be residential use sometime prior to 1937. The property was redeveloped for parking for the adjoining industrial property to the south sometime between 1955 and 1962. The parcel remained parking and then vacant land.

With respect to adjoining properties, due to the scale of the photographs, details regarding adjoining property use were limited. No obvious RECs were noted on immediately adjoining properties, with the exception of the long-term use of industrial property adjoining to the south. Copies of the aerial photographs are presented in Appendix E.

### 6.2 Historical Topographic Maps

Historical topographic maps of the subject property and surrounding area were reviewed. The topographic maps depicted the following:

Year	Subject Property Observations
1902-1908	The scale of the photograph limits observations. The property appears to be vacant land.
1965-1983	The subject property is shaded pink depicting urban land development (no buildings or structures depicted).
2014-2019	There are no buildings/structures depicted on these maps. The topography is depicted as sloping to the southeast.

Year	Adjoining Property Observations
1902-1908	The scale of the photograph limits observations. The railroad to the west is depicted.
1965-1983	The adjoining properties and surrounding area are shaded pink depicting urban land development (no buildings or structures depicted).
2014-2019	There are no buildings/structures depicted on these maps. The topography is depicted as sloping to the northwest.

Historic site use of the subject property and adjoining properties is limited. The area was developed prior to 1902. Copies of the historical topographic maps in presented in Appendix F.

### 6.3 Sanborn Fire Insurance Maps

Historical Sanborn maps of the subject property and surrounding area were requested from EDR. A review of the Sanborn maps depicted the following:

Year	Subject Property Observations
1888-1908	The subject property is in an unmapped area.
1916-1925	The subject property appears to be vacant land with a residential property.
1931-1948	The subject property is developed with residential dwellings to the east side, and a 16,000-gallon gasoline AST is situated on the west side.
1972	The subject property is vacant land with the AST remaining on the west portion.

Year	Adjoining Property Observations
1888-1908	The adjoining properties are in an unmapped area.
1916-1925	A railroad adjoins to the west. A coal yard is located to the north of Main Street. Residential dwellings adjoin to the east. The parcel to the south is vacant.
1931	The municipal garage to the south is developed. Immediately adjoining to the south is the heating room with fuel storage.
1948	No significant changes are noted. Additional buildings on the coal yard immediately north of Summit Street are noted.
1972	The railroad to the west is still present. The coal yard is depicted but the structures to the north of Summit are no longer present. Residential adjoins to the east. The Municipal Garage industrial property to the south is expanded.

The subject property parcel was first developed for residential use sometime between 1908-1916. The residential dwellings were demolished sometime between 1948-1972. A bulk gasoline AST was identified on the west portion of the subject property from 1931 to 1972.

There were several RECs noted associated with the adjoining properties. The long-term use of the adjoining property to the north of Summit was a coal yard with various storage buildings. The long-term use of the adjoining property to the south was the municipal garage, with a heating/fuel room immediately adjoining the parcel boundary.

ECS also noted long term industrial uses in the nearby area. Industrial development of the 815 Wildt Street property identified the Star Motor Co. Motor Truck Assembling Plant in 1916, including buried gas tank, painting, machine shop and wood working. This property was discussed in the previous sections 5.1 and 5.2. In addition, the Standard Oil Company was noted approximately 475 feet to the southwest with gas tanks and an oil warehouse. The bulk fuel company was identified from 1916 through 1972. Copies of the historical Sanborn maps in presented in Appendix G.

## 6.4 City Directories

Historical city address directories of the subject property and surrounding properties, provided by EDR, in roughly five-year intervals from 1894 to 2020 were reviewed. ECS consulted with Sanborn maps to confirm historic addresses that may correspond to the subject property. Addresses specific to the subject property (119-123 W. Summit) and parent parcel (721 N. Main) were highlighted in the City Directory resources. The City Directory resources identified the following:

Year	Subject Property Listings (119-123 W. Summit)
1884-1912	Not Listed
1917-1964	Residential
1967-2020	Not Listed

Year	Parent Parcel Listings (721 N. Main)
1884-1927	Not Listed
1932-1960	City Garage/Municipal Garage
1964	Municipal Garage, DPW, Parking & Traffic (paint and sign shop)
1967-1972	Municipal Garage
1977	Not Listed
1982-1992	City Solid Waste Field, City Signs & Signals, City Street Maintenance
1995-2010	Ann Arbor Solid Waste, Street Maintenance
2014-2017	Not Listed
2020	Ann Arbor Recycling

With respect to adjoining properties, addresses to the east and west along Summit Street were also evaluated. Adjoining addresses on Summit Street were identified as primarily residential, except for the following uses that may present a potential environmental concern:

- 120 Summit (adjoining north): identified as residential with coal in 1927-1937.
- 124 Summit (adjoining north): identified as residential with coal in 1937-47, and then a Coal Company in 1951-1972.
- 124 Summit was identified as C&J Body Shop in 1977-1987.

A copy of the City Directories is provided in Appendix H.

## 6.5 Previous Environmental Documentation

ECS previously completed a Phase I ESA dated April 29, 2024 and a Phase II ESA dated June 26, 2024. The Phase I ESA identified RECs associated with historic site use of adjoining properties including the parent parcel. A Phase II ESA was conducted by ECS, consisting of six soil borings and monitoring wells to facilitate soil and groundwater sampling and analysis.

The results of the Phase II ESA indicated field screening observations identified evidence of apparent industrial-type fill material across the subject property. Soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or VIAP Screening Levels, resulting in the subject property being classified as a "facility".

Selected portions of the Phase I ESA and Phase II ESA are included in Appendix I.

## 6.6 Historical Use Summary

Historical documentation indicates the site was developed sometime circa 1917 for residential use. The property was redeveloped as a parking lot for the adjoining municipal property to the south. No other known uses were identified.

## 7.0 SITE AND AREA RECONNAISSANCE

The site reconnaissance was performed on December 8, 2025 by Ms. Julie Pratt of ECS. See Appendix A for the Site Photographs obtained during the visual reconnaissance and Figure 2 for the Aerial Site Map.

### 7.1 Methodology And Limiting Conditions

The subject property and adjoining properties were visually observed for visible evidence of ASTM RECs in an effort to determine if a release of petroleum or other hazardous materials has occurred to the site surface, soil, surface water or groundwater. Indications of RECs may include, but are not limited to, evidence of buried or discarded drums or containers, stained, discolored or disturbed soils, stressed vegetation, evidence of pipes or other objects protruding from the ground, and evidence of aboveground and underground storage tanks.

The site reconnaissance was conducted in a manner that allowed for visual observations and identification of subject property features, including structures, open areas, property boundaries, and adjoining properties. Limitations included the presence of snow cover limiting observations.

### 7.2 Current Use(s) of the Subject property

The subject property is currently vacant land, with no buildings or structures. Fencing is situated around portions of the property.

### 7.3 Past Use(s) of the Subject property

Visual observations of the subject property did not provide indication of former site uses.

### 7.4 Current Use(s) of the Adjoining Properties

A limited visual reconnaissance of the adjoining and nearby properties was performed. The reconnaissance was limited to observation of areas visible from the subject property or areas of public access. A summary of current uses of adjoining properties relative to the subject property is listed below:

	<b>Adjoining Properties</b>
North	W. Summit Street, followed by commercial property (driveway/parking and multi-tenant commercial building)
South	Vacant land (City of Ann Arbor Municipal Property)
East	Residential dwellings
West	Railroad easement, followed by Hiscock Street

ECS observed the adjacent properties from the subject property or public access areas, as accessible. Based upon observations made at the time of ECS's site reconnaissance, the current uses of adjoining properties do not appear to be an environmental concern in relation to the subject property.

## **7.5 Past Use(s) of the Adjoining properties**

ECS visually observed adjoining properties for past uses that present a potential environmental concern. The adjoining lot to the west has what appears to be a potential former dispenser island. Based on the FOIA documentation reviewed, this was identified as a CNG dispenser. As noted in previous sections, the adjoining property to the south appears to be a former commercial/industrial property.

## **7.6 Current or Past Use(s) of the Surrounding Area**

The surrounding area is mostly urban land development in an established mixed-use neighborhood. Visual observations of the surrounding area did not identify any obvious past uses that present an environmental concern.

## **7.7 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions**

Physical setting observations and information were previously described in Section 4.0.

Visual observations did not indicate any obvious evidence that there likely is or was a release of hazardous substances or petroleum products at a nearby property that may migrate to the subject property.

## **7.8 Structures and Other Improvements on the Subject Property**

There are no buildings/structures on the subject property. The western portion is gravel covered and partially accessible. Most of the subject property parcel is enclosed in locked fencing, and is covered with overgrown vegetation.

Driveway access from W. Summit Street provides access the northwest portion of the parcel.

At the time of the visit, several pallets of landscaping materials were being stored temporarily on the southeast portion of the parcel.

## **7.9 Roads**

There are no public roads currently present on the subject property. The property is accessible by driveway access from W. Summit Street.

## **7.10 Utilities, Wells And Septic Systems**

No obvious visual indications of drinking water wells or septic systems were noted at the subject property. Utilities available at the subject property are unconfirmed. Remnants of natural gas utilities/piping were noted immediately adjoining the property to the south.

## **7.11 Chemical Use And Storage**

There was no obvious evidence of any hazardous substances or petroleum products noted on the subject property in connection with use of the subject property.

## **7.12 Storage Tank Systems**

The subject property was visually observed for signs of current or former underground storage tanks (USTs) and aboveground storage tanks (ASTs). Typical indicators of USTs include pump islands, fill or vent piping, excavations, manhole covers, etc. There were no obvious indicators of current ASTs or USTs at the subject property.

## **7.13 Odors**

There were no strong, pungent or noxious odors observed on the subject property.

## **7.14 Surface Water, Pools, Sumps**

No standing surface water, pools or sumps containing liquids likely to be hazardous substances or petroleum products were observed on the subject property.

## **7.15 Suspected Polychlorinated Biphenyl-Containing Equipment**

The subject property was observed for suspected polychlorinated biphenyl (PCB) containing equipment, such as electrical transformers and capacitors. No obvious evidence of PCB containing equipment was noted.

## **7.16 Stains or Corrosion on Floors, Walls or Ceilings**

There are no buildings/structures on the subject property.

## **7.17 Drains and Sumps**

Drains or sumps were not observed on the subject site.

## **7.18 Stained Soil or Pavement**

ECS did not observe obvious evidence of stained soil or stained pavement on the subject property.

## **7.19 Vegetation**

The subject property includes a gravel parking area and areas of trees/vegetation. No obvious evidence of stressed vegetation due to environmental concerns was noted.

## **7.20 Solid Waste Disposal**

No obvious mounds or depressions suggesting trash or other solid waste disposal was observed.

## **7.21 Waste/Wastewater**

No obvious wastewater or other liquid is known to be discharged from or to the subject property.

## 7.22 Wells

No evidence or indication of any dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells or other wells were noted on the subject property.

## **8.0 OWNER/OCCUPANT INTERVIEWS**

An owner/occupant questionnaire was completed by Mr. Carl Konopaska, a representative of the City of Ann Arbor. Mr. Konopaska noted nothing has changed since the 4/22/24 questionnaire previous completed by Mr. Matt Kulhanek.

### **8.1 Interview With Site Owner**

Mr. Matt Kulhanek, Fleet & Facilities division with the City of Ann Arbor previously provided a completed questionnaire. Municipal site use was identified as vacant/storage from 2007 to current, with historic site use as municipal public works from circa 1930's to 2007. Several of the questions were answered affirmatively, with the following comments provided:

- The parent parcel at 721 N. Main had industrial use as a public works site.
- The parent parcel had former fuel operations, vehicle repair operations, as well as DTE natural gas filling station.
- The parent parcel had soil testing; no knowledge of results.

### **8.2 Interview With Site Operator/Occupant**

No other interviews were conducted.

### **8.3 Interview With Site Manager/Other**

No other interviews were conducted.

### **8.4 Interviews With State Local And Government Officials**

As previously discussed in Sections 5.2 through 5.4, Ann Arbor and Washtenaw County had limited records pertaining to the subject property. No other interviews with state or local governmental officials were conducted.

## 9.0 ASSESSMENT OF POTENTIAL VAPOR ENCROACHMENT CONDITIONS (VECs)

ECS completed a Tier I and non-invasive Tier II Vapor Encroachment Screen (VES) of the subject property. The Tier I and non-invasive Tier II VES was conducted in general accordance with the guidelines established by the American Society for Testing and Materials (ASTM) in the Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions Designation E 2600-10 (ASTM Standard Practice E 2600-10).

The purpose of the VES was to determine if potential Vapor Encroachment Concerns (pVECs) or Vapor Encroachment Concerns (VECs) exist in association with the subject property. ASTM's Standard Practice E 2600-10 defines the term VEC as the presence or likely presence of any contaminant of concern (COC) in the indoor air environment of existing or planned structures on a property caused by the release of vapor from contaminated soil or groundwater either on the property or within close proximity to the property, at a concentration that presents or may present an unacceptable health risk to occupants. A VEC can be further defined as any COC within 100 feet for soil impacts or ground water impacts of an existing/planned structure or to the target property boundary if there are no planned structures.

The scope of this Tier I VES included a review of the geologic, hydrologic, hydrogeologic, topographic maps, aerial photography, city directories and a review of regulatory databases and other pertinent data obtained during the preparation of the Phase I.

The Tier II component of this VES included the use of professional judgment for additional nearby properties outside of the scope of a typical Phase I records review. No subsurface investigation of the property was undertaken as part of this Tier I and non-invasive Tier II VES.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the Phase II ESA conducted in 2024 to evaluate subsurface conditions, soil and groundwater contamination was encountered. Contaminants included VOCs and PNAs that indicate vapor encroachment conditions beneath the subject property.

## 10.0 NON-SCOPE CONSIDERATIONS

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, lead based paint, radon, water infiltration, mold and/or wetlands. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, they are considered non-scope issues.

## 11.0 FINDINGS AND OPINIONS

In the professional opinion of ECS, appropriate inquiry has been made into the current and past uses of the subject property consistent with good commercial and customary practice in an effort to minimize liability.

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with vegetation. The adjoining properties include mixed use with commercial and residential to the north, railroad to the west, single family residential along Summit Street to the east, and vacant land (former commercial/industrial) to the south.

Historical documentation indicates the site was first developed sometime circa 1917 for residential use (city directory). The property was redeveloped as a parking lot for the adjoining industrial/municipal property to the south. No other known uses were identified.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000 gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identifies the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

Previous assessment was conducted on the subject property. A Phase II ESA was conducted in 2024 to assess RECs identified during a previous Phase I ESA dated April 29, 2024. The results indicated soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the property being classified as a "facility".

## 12.0 CONCLUSIONS AND RECOMMENDATIONS

### 12.1 CONCLUSIONS

ECS has performed a Phase I ESA in conformance with the scope and limitations of AAI and ASTM E 1527-21 of the vacant land at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 12.2 of this Report.

**This assessment has revealed no evidence of RECs, Historic RECs, Controlled RECs, or VECs in connection with the subject property, with the exception of the following:**

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.
- Phase II ESA activities conducted in on the subject property in 2024 to assess the subject property confirmed soil and groundwater concentrations were detected at levels exceeding the Part 201 Generic Residential Cleanup Criteria and/or Screening Levels, resulting in the subject property being classified as a "facility".

### 12.2 Data Gaps

No data failures as defined in ASTM E 1527-21 were encountered during the completion of the Phase I ESA and no significant limitations were noted during the site reconnaissance, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site observations at the time of the site reconnaissance due to snow cover.

The data gaps, failures and/or limitations were not determined to be material in identifying RECs and/or they are not considered by ASTM standard to be significant based on additional information gathered and ability to draw a conclusion regarding the prior use of the subject property from the sources reviewed

### 12.3 Limiting Conditions/Deviations

No deviations to the stated scope of work, Section 1.2, were identified during the completion of the Phase I ESA. Limited observations at the time of the site reconnaissance due to snow cover.

### 12.4 Additional Investigation

No additional investigation was conducted beyond the Phase I ESA scope of work.

## 12.5 Recommendations

Based on the identification of RECs and VECs, including "facility" classification of the subject property, should the Ann Arbor Housing Development Corporation decide to purchase the subject property, a Baseline Environmental Assessment (BEA) is recommended to be completed within 45 days of purchase or occupancy. A Due Care Compliance document is also recommended to adequately address owner/operator due care obligations.

In addition, in anticipation of redevelopment of the parcel for residential low-income housing, it is likely that additional site investigation would be required to provide full site characterization, including but not limited to soil-gas sampling/analysis and additional soil and groundwater sampling/analysis. Response actions/mitigation measures would be warranted to address any complete pathways that have potential for human exposures.

## 13.0 REFERENCES

ASTM Standard E1527-13, 2033, " Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM International, West Conshohocken, PA, 2013, DOI: 10.1520/E1527, [www.astm.org](http://www.astm.org).

Code of Federal Regulations. "National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR, Part 300), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)", July 2003.

Environmental Data Resources (EDR), Inc. "EDR-Radius Map™ December 2025.

---. *EDR Aerial Photo Decade Package*

---. *Certified Sanborn® Map Report*

---. *EDR City Directory Image Report*

---. *EDR Historical Topographic Map Report*

Michigan Legislature. "Natural Resources and Environmental Protection Act (Act 451), Environmental Remediation (Part 201)", 1994.

State of Michigan. Department of Environment, Great Lakes and Energy, GeoWebFace and Environmental Mapper online resources.

#### 14.0 QUALIFICATIONS AND ENVIRONMENTAL PROFESSIONAL STATEMENT

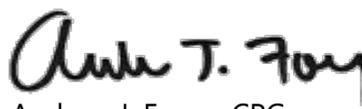
We declare that, to the best of our knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312 and we have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject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

The Phase I ESA site reconnaissance was performed by Ms. Pratt and this Phase I ESA was written by Ms. Julie Pratt. Mr. Andrew Foerg, provided oversight and report review. Ms. Pratt has over 25 years of experience performing Phase I ESAs. Mr. Foerg has over 35 years of experience performing Phase I ESAs. All work associated with the research and development of this report was performed by qualified personnel and was performed in general accordance with ASTM E 1527-21 and EPA's standards for AAI described in *40 CFR Part 312*.

All of which is respectfully submitted,



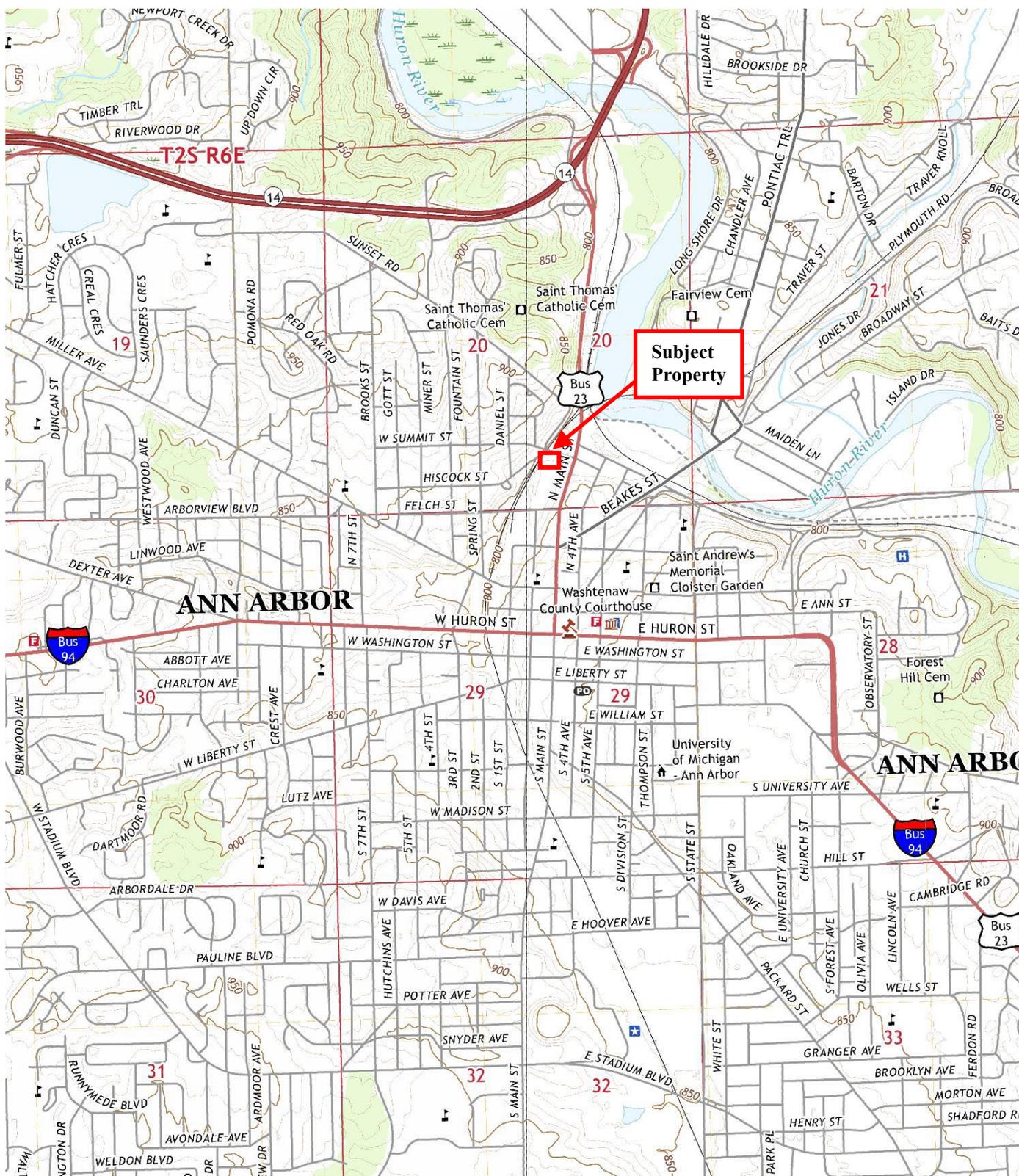
Julie Anna Pratt  
Senior Project Professional



Andrew J. Foerg, CPG  
President

Enclosures

## FIGURES



**Legend**

Approximate Property Boundary







***Legend***


 Approximate Property Boundary



**APPENDIX A**  
**Site Photographs**



Photograph 1: View looking towards the northwest portion of the subject property.



Photograph 2: View looking northeast along the eastern portion of the subject property.



Photograph 3: View looking north across the subject property.



Photograph 4: View of landscaping material stored on the southeast portion of the property.



Photograph 5: View of natural gas utilities/piping adjoining to the south.



Photograph 6: Looking west along the south property boundary and adjoining property to the south.



Photograph 7: Looking south towards the former industrial property.



Photograph 8: Looking east along the south property boundary and adjoining property to the south.



Photograph 9: View of adjoining residential properties to the east fronting W. Summit Street.



Photograph 10: Looking towards adjoining railroad to the west and adjoining commercial property north of W. Summit.

**APPENDIX B**

**Client Provided Documentation**

**USER/CLIENT QUESTIONNAIRE**  
**Phase I Environmental Site Assessment**

Project Name: 123 W. Summit Date: 12/5/25  
 Contact Name: Tom Pierce Phone: 734-646-6016  
 Company: Ann Arbor Housing Commission Fax: \_\_\_\_\_  
 Relationship to Site: Representative of Buyer Email: tpierce@a2gov.org

This questionnaire outlines personal knowledge of the interviewee. The questionnaire is to be answered to the best of the interviewee's knowledge, and is considered a true and accurate account of that personal knowledge. The questionnaire refers to current and historical information regarding the property, and will be included within the Phase I ESA report.

**General Site Information**

Type of Property: Industrial Commercial  Residential Other  
 Size of Property: 4.57 acres Size of building(s): None  
 Site Address: 123 W. Summit  
Ann Arbor, MI 48104  
 Occupied by: Unoccupied  
 Owned by: City of Ann Arbor  
 Current Operations/Site Use: Unused  
 \_\_\_\_\_  
 Proposed Operations/Site Use: Multifamily Housing  
 \_\_\_\_\_

**Current/Former Site Contacts (which may have knowledge of Site History):**

Name	Title	Years at Site/ With Company	Phone No.
Matt Kulhanek	Fleet and Facilities	20	734-794-6312

To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the “Brownfields Amendments”), the user must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. The user should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that “all appropriate inquiries” is not complete.

**1. Environmental liens that are filed or recorded against the subject property**

Did a search of land title records identify any environmental liens filed or recorded against the subject property under federal, tribal, state, or local law?

Yes       No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**2. Activity and use limitations that are in place on the subject property or that have been filed or recorded against the subject property**

Are you aware of any activity and/or use limitations (AULs), such as engineering controls, land use restrictions or institutional controls that are in place at the subject property and/or have been filed or recorded against the subject property under federal, tribal, state or local law?

Yes       No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**3. Specialized Knowledge or Experience of Subject Property**

Do you have any specialized knowledge or experience related to the *subject property*? For example, are you involved in the same line of business as the current or former *occupants* of the *subject property* so that you would have specialized knowledge of the chemicals and processes used by this type of business?

Yes       No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**4. Specialized Knowledge or Experience of Adjoining Properties**

Do you have any specialized knowledge or experience related to *the adjoining properties*? For example, are you involved in the same line of business as the current or former occupants of the *adjoining properties* so that you would have specialized knowledge or the chemicals and processes used by this type of business?

Yes  No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**5. Relationship of the purchase price to the fair market value of the subject property if it were not contaminated**

Does the purchase price being paid for this Site reasonably reflect the fair market value of the Site.

Yes  No

If you conclude there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the Site?

Yes  No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**6. Commonly Known/Reasonably Ascertainable Information about the subject property**

Are you aware of commonly known or reasonably ascertainable information about the *Subject Property* that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example:

Do you know the past uses of the Site?  Yes  No

*If yes, explain:* Municipal public works and storage for the City of Ann Arbor.  
\_\_\_\_\_  
\_\_\_\_\_

Do you know of specific chemicals that are present or once were present at the Site?  Yes  No

*If yes, explain:* Former natural gas filling station for DTE. Refer to Phase II conducted by ECS in 2024.  
\_\_\_\_\_  
\_\_\_\_\_

Do you know of spills or other chemical releases that have taken place at the Site?  Yes  No

*If yes, explain:* \_\_\_\_\_  
\_\_\_\_\_

Do you know of any environmental cleanups that have taken place at the Site?      \_\_\_Yes    XNo

*If yes, explain:* \_\_\_\_\_

**7. The degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation**

Based on your knowledge and experience related to the Site, are there any obvious indicators that point to the presence or likely presence of releases at the Site?

\_\_\_Yes    XNo

*If yes, explain:* \_\_\_\_\_

M:\CIVIL\134\_Proj\22179\Survey\22179\_S03.dwg, 3/13/2023 2:01 PM, Matt S. Trisdel, P61, MLLC PDF, p03  
 Copyright © 2023, Midwestern Consulting L.L.C. All rights reserved. No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior permission of Midwestern Consulting L.L.C.



The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.

SCALE: 1" = 30'

**MIDWESTERN CONSULTING**  
 3815 Plaza Drive Ann Arbor, Michigan 48108  
 (734) 995-0200 • www.midwesternconsulting.com  
 Land Development • Land Survey • Institutional • Municipal  
 Wireless Communications • Transportation • Landfill Services

CLIENT  
 ANN ARBOR HOUSING DEVELOPMENT CORP.  
 PO BOX 8647  
 ANN ARBOR, MI 48107  
 DARREN MCKINNON  
 734-904-5044

**721 N. MAIN STREET**  
 PROPOSED LAND DIVISION SKETCH FOR A PARCEL OF LAND  
 LOCATED IN THE SE 1/4 OF SECTION 20, T2S, R6E,  
 CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

JOB NO.	22179
DATE:	02/27/23
SHEET:	1 OF 2
REV. DATE	
ADD:	KAV
ENG:	
PK:	MST
TECH:	SV3
FR:	1085

M:\Civil\134\_Proj\122179\Survey\22179\_S03.dwg, 3/13/2023 2:01 PM, Mett S. Trisdel, P22, MLLC PDF.p3  
Copyright © 2023, Midwestern Consulting L.L.C. All rights reserved. No part of this drawing may be used or reproduced in any form or by any means, or stored in a database or retrieval system, without prior permission of Midwestern Consulting L.L.C.

**LEGEND**

- 8.38 EXIST. CONTOUR
- ×836.2 EXIST. SPOT ELEVATION
- U.P. EXIST. UTILITY POLE
- GUY WIRE
- EXIST. AC UNIT
- OH EXIST. OVERHEAD UTILITY LINE
- EXIST. LIGHT POLE
- EXIST. ELECTRIC LINE
- EXIST. GAS LINE
- EXIST. GATE VALVE IN BOX
- EXIST. GATE VALVE IN WELL
- EXIST. CURB STOP & BOX
- EXIST. STORM SEWER
- EXIST. CATCH BASIN OR INLET
- EXIST. SANITARY SEWER
- SIGN
- ELECTRIC METER
- GAS METER
- POST
- FENCE
- SINGLE TREE
- F TREE OR BRUSH LIMIT
- FIR FOUND IRON PIPE
- FIR FOUND IRON ROD



SCALE: 1" = 10'  
0 10 20 30

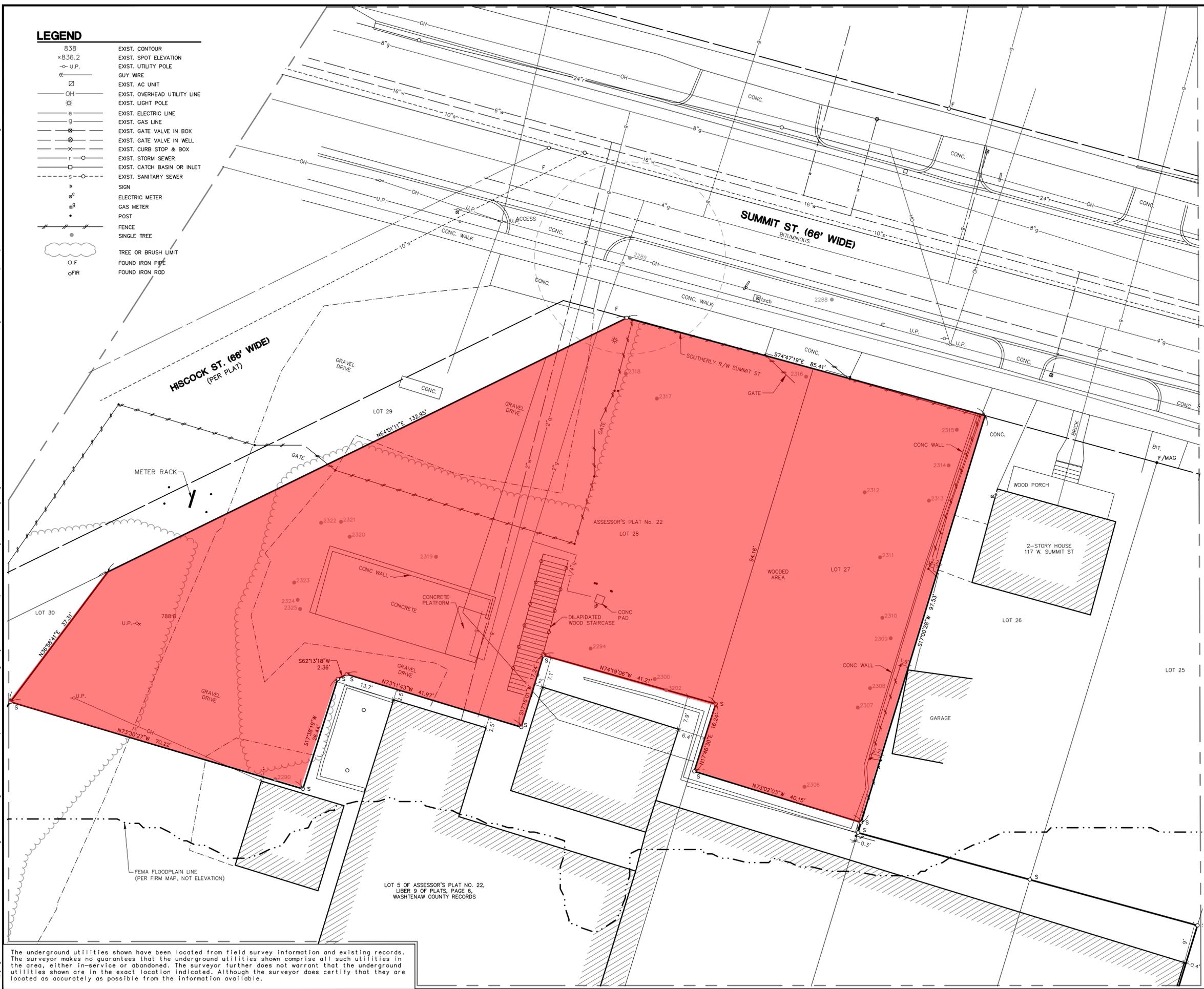


**MIDWESTERN CONSULTING**  
3815 Plaza Drive Ann Arbor, Michigan 48108  
(734) 995-0000 • www.midwesternconsulting.com  
Land Development • Land Survey • Institutional • Municipal  
Wireless Communications • Transportation • Landfill Services

**CLIENT**  
ANN ARBOR HOUSING DEVELOPMENT CORP.  
PO BOX 8647  
ANN ARBOR, MI 48107  
DARREN MCKINNON  
734-904-5044

**721 N. MAIN STREET**  
PROPOSED LAND DIVISION SKETCH FOR A PARCEL OF LAND  
LOCATED IN THE SE 1/4 OF SECTION 20, T2S, R6E,  
CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN

**2**  
DATE: 02/27/23  
SHEET 2 OF 2  
REV. DATE: CADD: KAV  
ENG: P.M. MST  
TECH: S.V.S  
FB: T.O.S



**NOTE**  
ZONED: PL (PUBLIC LAND)  
THERE ARE NO DIMENSIONAL REQUIREMENTS  
THERE ARE NO SETBACK REQUIREMENTS

**TREE LIST**

TAG#	DBH	COMMON NAME	GENUS/SPECIES	STEMS	SCORE	LM	INV
2288	12"	Siberian Elm	Ulmus pumila				X
2289	22"	Honey Locust	Gleditsia triacanthos	14	X		
2290	7"	Siberian Elm	Ulmus pumila				X
2291	7"	Tree-of-heaven	Ailanthus altissima				X
2292	10"	Tree-of-heaven	Ailanthus altissima	twin			X
2293	6"	Black Walnut	Juglans nigra				X
2294	12"	Siberian Elm	Ulmus pumila				X
2295	18"	Siberian Elm	Ulmus pumila				X
2296	14"	Siberian Elm	Ulmus pumila				X
2297	22"	Siberian Elm	Ulmus pumila				X
2298	6"	American Elm	Ulmus americana				X
2299	8"	American Elm	Ulmus americana				X
2300	16"	Siberian Elm	Ulmus pumila				X
2301	11"	American Elm	Ulmus americana				X
2302	8"	American Elm	Ulmus americana				X
2303	7"	American Elm	Ulmus americana				X
2304	6"	Box Elder	Acer negundo				X
2305	11"	Tree-of-heaven	Ailanthus altissima				X
2306	7"	Tree-of-heaven	Ailanthus altissima				X
2307	7"	Tree-of-heaven	Ailanthus altissima	twin			X
2308	7"	Box Elder	Acer negundo				X
2309	8"	Box Elder	Acer negundo				X
2310	12"	Box Elder	Acer negundo				X
2311	6"	Cottonwood	Populus deltoides				X
2312	8"	Cottonwood	Populus deltoides	twin			X
2313	7"	Norway Spruce	Picea abies				X
2314	9"	Siberian Elm	Ulmus pumila	twin			X
2315	8"	Tree-of-heaven	Ailanthus altissima	twin			X
2316	7"	Siberian Elm	Ulmus pumila				X
2317	7"	Siberian Elm	Ulmus pumila				X
2318	6"	Tree-of-heaven	Ailanthus altissima				X
2319	6"	Tree-of-heaven	Ailanthus altissima				X
2320	9"	Tree-of-heaven	Ailanthus altissima	twin			X
2321	8"	Siberian Elm	Ulmus pumila				X
2322	10"	Siberian Elm	Ulmus pumila				X
2323	7"	Tree-of-heaven	Ailanthus altissima	twin			X
2324	7"	Tree-of-heaven	Ailanthus altissima				X
2325	9"	Tree-of-heaven	Ailanthus altissima				X
2326	13"	Blue Spruce	Picea pungens				X

The underground utilities shown have been located from field survey information and existing records. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in-service or abandoned. The surveyor further does not warrant that the underground utilities shown are in the exact location indicated. Although the surveyor does certify that they are located as accurately as possible from the information available.



Legislation Details (With Text)

<b>File #:</b>	24-0139	<b>Version:</b>	1	<b>Name:</b>	3/18/24 123 W. Summit Sale
<b>Type:</b>	Resolution	<b>Status:</b>		<b>Status:</b>	Passed
<b>File created:</b>	3/18/2024	<b>In control:</b>		<b>In control:</b>	City Council
<b>On agenda:</b>	3/18/2024	<b>Final action:</b>		<b>Final action:</b>	3/18/2024
<b>Enactment date:</b>	3/18/2024	<b>Enactment #:</b>		<b>Enactment #:</b>	R-24-089
<b>Title:</b>	Resolution to Sell 123 W. Summit (formerly part of 721 N. Main) to the Ann Arbor Housing Development Corporation (\$44,000.00) (8 Votes Required)				

**Sponsors:**

**Indexes:**

**Code sections:**

**Attachments:** 1. 123 N. Main Map.pdf, 2. 2023 7-5 721 N Main Lot Division Approval Letter - LD23-0003.pdf

Date	Ver.	Action By	Action	Result
3/18/2024	1	City Council		

Resolution to Sell 123 W. Summit (formerly part of 721 N. Main) to the Ann Arbor Housing Development Corporation (\$44,000.00) **(8 Votes Required)**

The Ann Arbor Housing Commission (AAHC) is requesting City Council approval to sell 123 W. Summit (formerly part of 721 N. Main) to the Ann Arbor Housing Development Corporation (AAHDC), a Michigan nonprofit whose sole member is the AAHC, for \$44,000.00. 721 N Main was appraised in 2019 for \$2,430,000.00 for the entire 5.26 acre parcel. However, the 123 W. Summit parcel has not been appraised.

On April 1, 2019, Ann Arbor City Council adopted Resolution R-19-138 directing the City Administrator to collaborate with the Ann Arbor Housing Commission (AAHC) to provide coordinated analysis on the feasibility of city-owned properties as potential locations for affordable housing. That resolution incorporated previous resolutions R-19-110, R-19-111 and R-19-116.

The Ann Arbor Housing Commission led the analysis along with support from a staff team and several contractors to determine the feasibility for 11 sites including review of land use and zoning, environmental conditions, financial resources, site-specific costs, and overall risk among other factors. The analysis, three potential portfolio scenarios, and next step recommendations were presented to City Council at the Nov. 18, 2019 City Council meeting.

As part of the analysis, it was determined that 721 N. Main had numerous site challenges including a FEMA Hazard Mitigation Grant deed, restricting the floodway and floodplain permanently as open space for the conservation of natural floodplain functions. The northwest corner of the site that abuts W. Summit Street was the only portion of the site that was not in the floodway or floodplain and is suitable for affordable housing development. Therefore, a .33 acre parcel in the northwest corner was split from the 5.26 acre parcel known as 721 N. Main for the purpose of developing affordable housing.

Further, AAHC staff worked with the SmithGroup to conduct community engagement for 123 W.

Summit. The team presented three different affordable housing scenarios and all scenarios received over 60% community support.

The 721 N. Main parcel currently has an asset value of \$44,000.00 in the City's fixed asset system. To avoid a loss at sale, the sale price of \$44,000.00 is recommended. AAHC is requesting that the City sell the property to the Ann Arbor Housing Development Corporation by quitclaim deed for \$44,000.00.

The deed will include a restriction that ensures that the housing that is built, will be permanently affordable to households whose income is 60% of the Area Median Income or less.

Prepared By: Jennifer Hall, Executive Director, Ann Arbor Housing Commission

Reviewed By: Kevin McDonald, Chief Deputy City Attorney

Approved By: Milton Dohoney Jr., City Administrator

Whereas, The Ann Arbor Housing Commission (AAHC) conducted a feasibility analysis and determined the northwest corner of the of 721 N. Main that abuts W. Summit Street was the only portion of the site that is not in the floodway or floodplain and is suitable for affordable housing development;

Whereas, The City's fixed asset system enumerates 721 N Main as a Fleet Fund asset with a value of \$44,000.00;

Whereas, A .33 Acre portion in the NW corner that is not in the floodway or floodplain was separated from the 5.26 acre parcel at 721 N. Main and made into its own parcel, now known as 123 W. Summit Street ("Property"), for the purpose of developing affordable housing; and

Whereas, The AAHC is requesting that the City sell the Property to the Ann Arbor Housing Development Corporation, a Michigan nonprofit corporation, whose sole member is the AAHC, for \$44,000.00 to meet the City's affordable housing goals and advance the development process;

RESOLVED, That City Council approve the sale of the Property to the Ann Arbor Housing Development Corporation for \$44,000.00;

RESOLVED, That City Council finds, upon the recommendation of the City Administrator, that a fair market value appraisal for this sale is unnecessary because the property shall be used for the public purpose of providing affordable housing, and because the City has received an appraisal for the entire parent parcel;

RESOLVED, That the City Council approves a quitclaim deed and any other documents necessary to convey ownership interest to the Ann Arbor Housing Development Corporation as required by Chapter 8, Section 1:209(3) of Ann Arbor City Code;

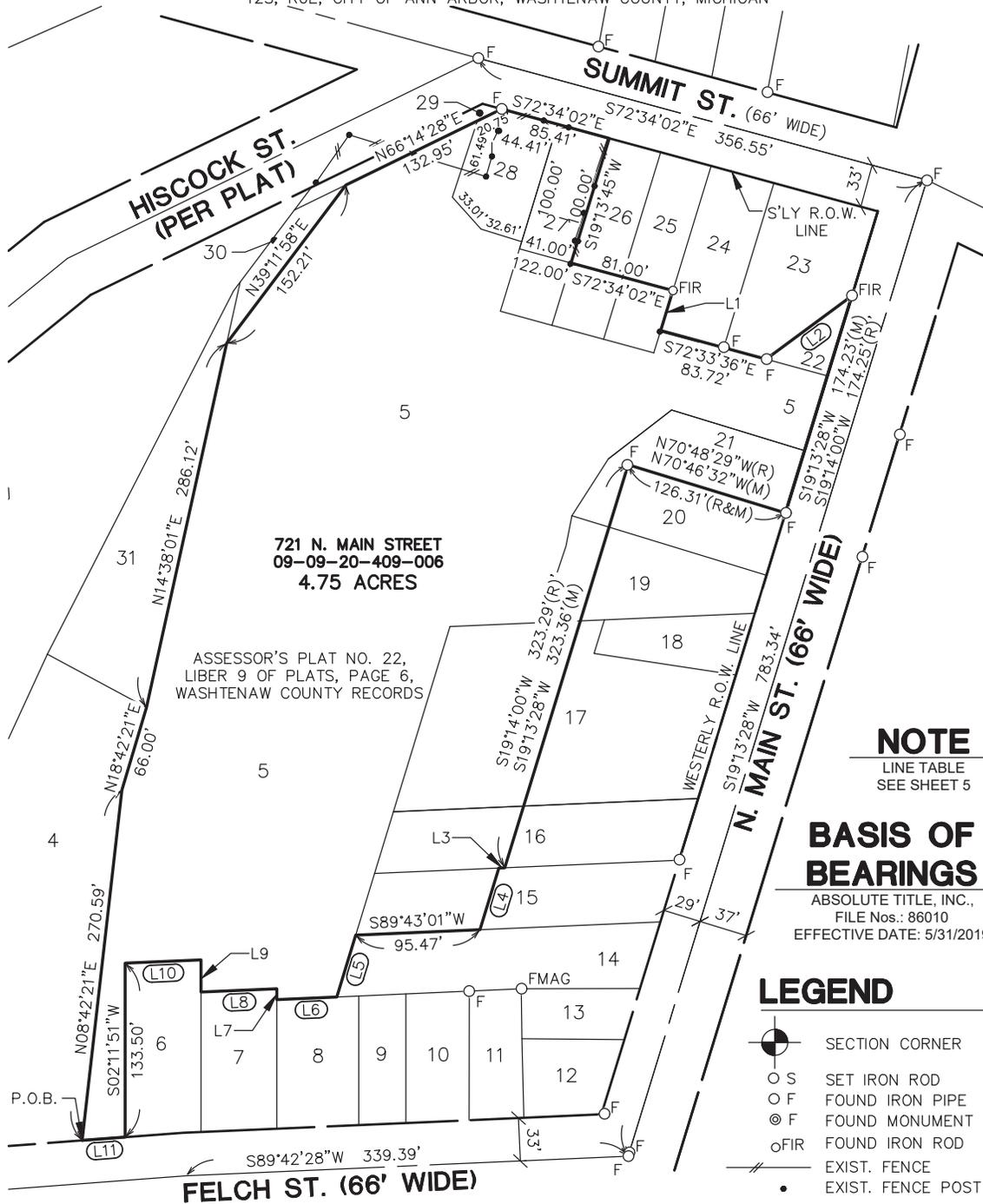
RESOLVED, That the Mayor and City Clerk are authorized to sign a quitclaim deed and any other documents necessary to convey the Property, subject to approval as to substance by the City Administrator, and approval as to form by the City Attorney, upon the condition that a deed restriction is placed on the Property at the time of transfer requiring permanently affordable housing to be developed on-site (which is affordable to households whose income is 60% AMI or less); and

RESOLVED, That the City Administrator be authorized to take any necessary administrative actions to complete this transaction.

# CERTIFIED SURVEY - EXISTING PARCEL



CERTIFIED SURVEY OF A PARCEL OF LAND IN THE SE 1/4 OF SECTION 20,  
T2S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



**NOTE**  
LINE TABLE  
SEE SHEET 5

## BASIS OF BEARINGS

ABSOLUTE TITLE, INC.,  
FILE Nos.: 86010  
EFFECTIVE DATE: 5/31/2019

## LEGEND

- SECTION CORNER
- SET IRON ROD
- FOUND IRON PIPE
- FOUND MONUMENT
- FOUND IRON ROD
- EXIST. FENCE
- EXIST. FENCE POST

I HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL HEREON DESCRIBED ON FEBRUARY 6, 2023 AND THAT THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING AND THAT ALL REQUIREMENTS OF P.A. 132 1970, AS AMENDED, HAVE BEEN COMPLIED WITH.

CLIENT: ANN ARBOR HOUSING	DATE: 2/6/2023
JOB NO.: <b>22179</b>	SHEET 1 OF 5
SECTION: 20 TOWN: 2S RANGE: 6E	SCALE: 1in. = 100 ft.
CITY OF ANN ARBOR	BOOK: 1065
WASHTENAW COUNTY, MICHIGAN	BY: MST

*Mark Vander Veen*

MARK VANDER VEEN PS NO. 4001056788



### MIDWESTERN CONSULTING

3815 Plaza Drive Ann Arbor, Michigan 48108  
(734) 995-0200 • www.midwesternconsulting.com  
Land Development • Land Survey • Institutional • Municipal  
Wireless Communications • Transportation • Landfill Services

# LEGAL DESCRIPTION - PARENT PARCEL

TAX ID: 09-09-20-409-006 (721 N. Main Street)  
 (Per ABSOLUTE TITLE, INC. FILE NO. 86010, DATED MAY 31, 2019)

Beginning at the Southeast corner of Lot 4, Assessor's Plat No. 22, located in the City of Ann Arbor and recorded in Liber 9 of Plats, Page 6, Washtenaw County Records, Washtenaw County, Michigan; thence the following two courses along the Easterly line of said Lot 4, North 08°42'21" East, 270.51 feet and North 18°42'21" East 66.00 feet; thence along the Easterly line of Lot 31 of said Plat, North 14°38'01" East 286.12 feet; thence along the Easterly line of Lot 30 of said Plat, North 39°11'58" East 152.21 feet; thence along the Southeasterly line of Lot 29, North 66°14'28" East 132.95 feet; thence along the Southerly right of way of Summit Street, South 72°34'02" East 44.41 feet (recorded as South 72°33'30" East); thence along the Westerly line of Lot 27 of said Plat, South 19°13'45" West 100.00 feet; thence South 72°34'02" East 122.00 feet; thence along the Westerly line of Lot 24 of said Plat, South 19°13'46" West 32.00 feet; thence along the Southerly line of Lots 24 and 23 of said Plat, South 72°33'36" East 83.72 feet; thence along the Southeasterly line of said Lot 23, North 55°47'55" East 81.82 feet; thence along the Westerly right of way of N. Main Street, South 19°14'00" West 174.25 feet; thence along the Northerly line of Lot 20 of said Plat, North 70°48'29" West 126.31 feet; thence South 19°14'00" West 323.29 feet; thence along the Northerly line of Lot 15 of said Plat, South 89°43'06" West 4.45 feet; thence South 19°12'34" West 49.53 feet; thence along the North line of Lot 14 of said Plat, South 89°43'01" West 95.47 feet; thence along the Westerly line of said Lot 14 of said Plat, South 19°12'34" West 49.53 feet; thence the following six courses along Lots 8, 7, and 6 of said Plat, South 89°43'00" West 46.01 feet, North 02°13'00" East 8.25 feet, South 89°43'00" West 58.25 feet, North 02°12'46" East 24.75 feet, South 89°41'51" West 58.25 feet, and South 02°11'51" West 133.43 feet; thence along the Northerly right of way of Felch Street, South 87°52'21" West 33.10 feet to the Point of Beginning, being part of Lots 15, 16, 17, 19, 20, 25, 26, and 27 of Assessor's Plat No. 22.

ALSO

The Northerly 100 feet of Lot 27 of Assessor's Plat Number 22, City of Ann Arbor, Washtenaw County, Michigan, according to the plat thereof as recorded in Liber 9 of Plats, page 6, Washtenaw County Records.

I HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL HEREON DESCRIBED ON FEBRUARY 6, 2023 AND THAT THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING AND THAT ALL REQUIREMENTS OF P.A. 132 1970, AS AMENDED, HAVE BEEN COMPLIED WITH.

CLIENT: ANN ARBOR HOUSING	DATE: 2/6/2023
JOB NO.: <b>22179</b>	SHEET 2 OF 5
SECTION: 20 TOWN: 2S RANGE: 6E	SCALE: 1in. = 100 ft.
CITY OF ANN ARBOR	BOOK: 1065
WASHTENAW COUNTY, MICHIGAN	BY: MST



MARK VANDER VEEN PS NO. 4001056788





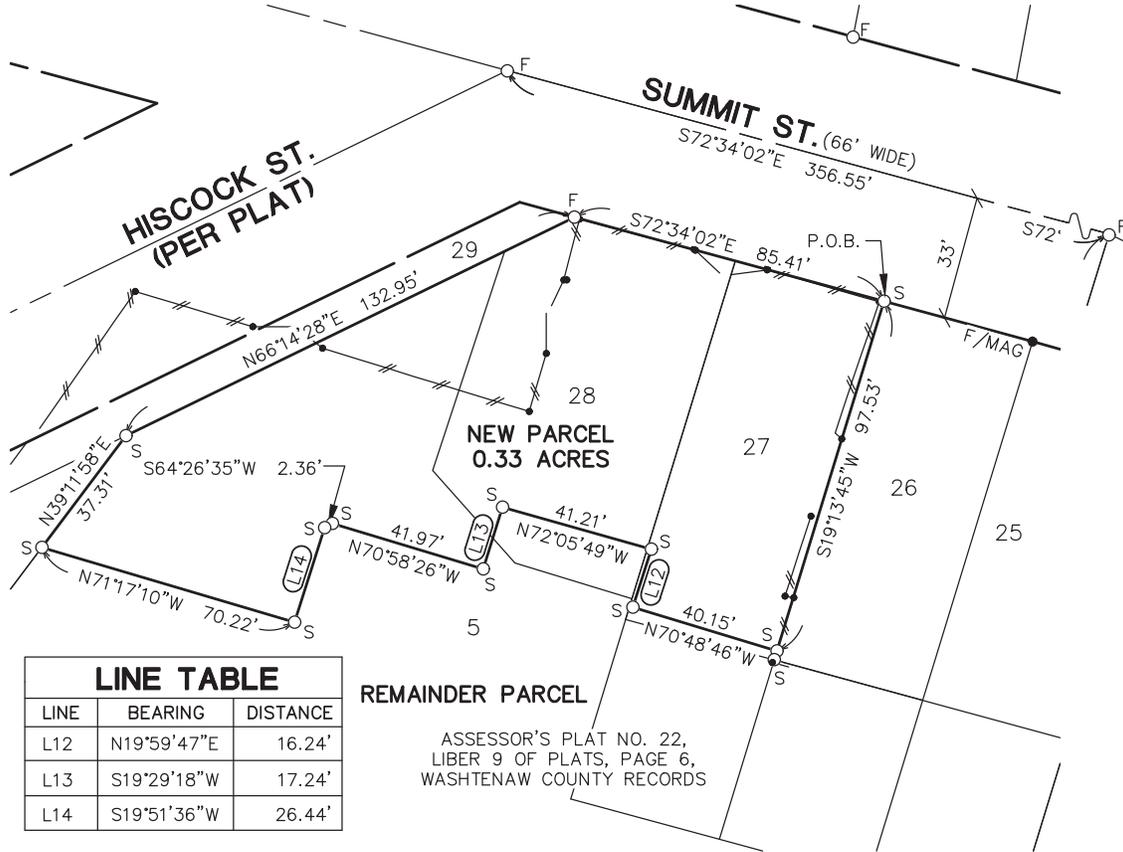
**M I D W E S T E R N**  
**C O N S U L T I N G**

3815 Plaza Drive Ann Arbor, Michigan 48108  
 (734) 995-0200 • www.midwesternconsulting.com  
 Land Development • Land Survey • Institutional • Municipal  
 Wireless Communications • Transportation • Landfill Services



# CERTIFIED SURVEY - NEW PARCEL

CERTIFIED SURVEY OF A PARCEL OF LAND IN THE SE 1/4 OF SECTION 20, T2S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



LINE TABLE		
LINE	BEARING	DISTANCE
L12	N19°59'47"E	16.24'
L13	S19°29'18"W	17.24'
L14	S19°51'36"W	26.44'

## LEGAL DESCRIPTION - NEW PARCEL

A parcel of land in the Southeast 1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, being described as follows:

BEGINNING at the Northeast corner of Lot 27 of Assessor's Plat No. 22, recorded in Liber 9 of Plats, Page 6, Washtenaw County Records, Washtenaw County, Michigan;

- thence S19°13'45"W 97.53 feet along the East line of said Lot 27;
- thence N70°48'46"W 40.15 feet;
- thence N19°59'47"E 16.24 feet along the West line of said Lot 27;
- thence N72°05'49"W 41.21 feet;
- thence S19°29'18"W 17.24 feet;
- thence N70°58'26"W 41.97 feet;
- thence S64°26'35"W 2.36 feet;
- thence S19°51'36"W 26.44 feet;
- thence N71°17'10"W 70.22 feet;
- thence N39°11'58"E 37.31 feet along the Westerly line of Lot 5 of said Assessor's Plat No. 22;
- thence N66°14'28"E 132.95 feet along the Southeasterly line of Lot 29 of said Assessor's Plat No. 22;
- thence S72°34'02"E 85.41 feet along the South Right-of-Way line of Summit Street (66 feet wide) to the POINT OF BEGINNING.

Being part of Lots 5, 27 and 28 of Assessor's Plat No. 22, located in the SE 1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, containing 0.33 acres of land, more or less. Being subject to any easements and/or restrictions, if any.

I HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL HEREON DESCRIBED ON FEBRUARY 6, 2023 AND THAT THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING AND THAT ALL REQUIREMENTS OF P.A. 132 1970, AS AMENDED, HAVE BEEN COMPLIED WITH.

CLIENT: ANN ARBOR HOUSING	DATE: 2/6/2023
JOB NO.: <b>22179</b>	SHEET 3 OF 5
SECTION: 20 TOWN: 2S RANGE: 6E	SCALE: 1in. = 40 ft.
CITY OF ANN ARBOR	BOOK: 1065
WASHTENAW COUNTY, MICHIGAN	BY: MST

*Mark Vander Veen*

MARK VANDER VEEN PS NO. 4001056788

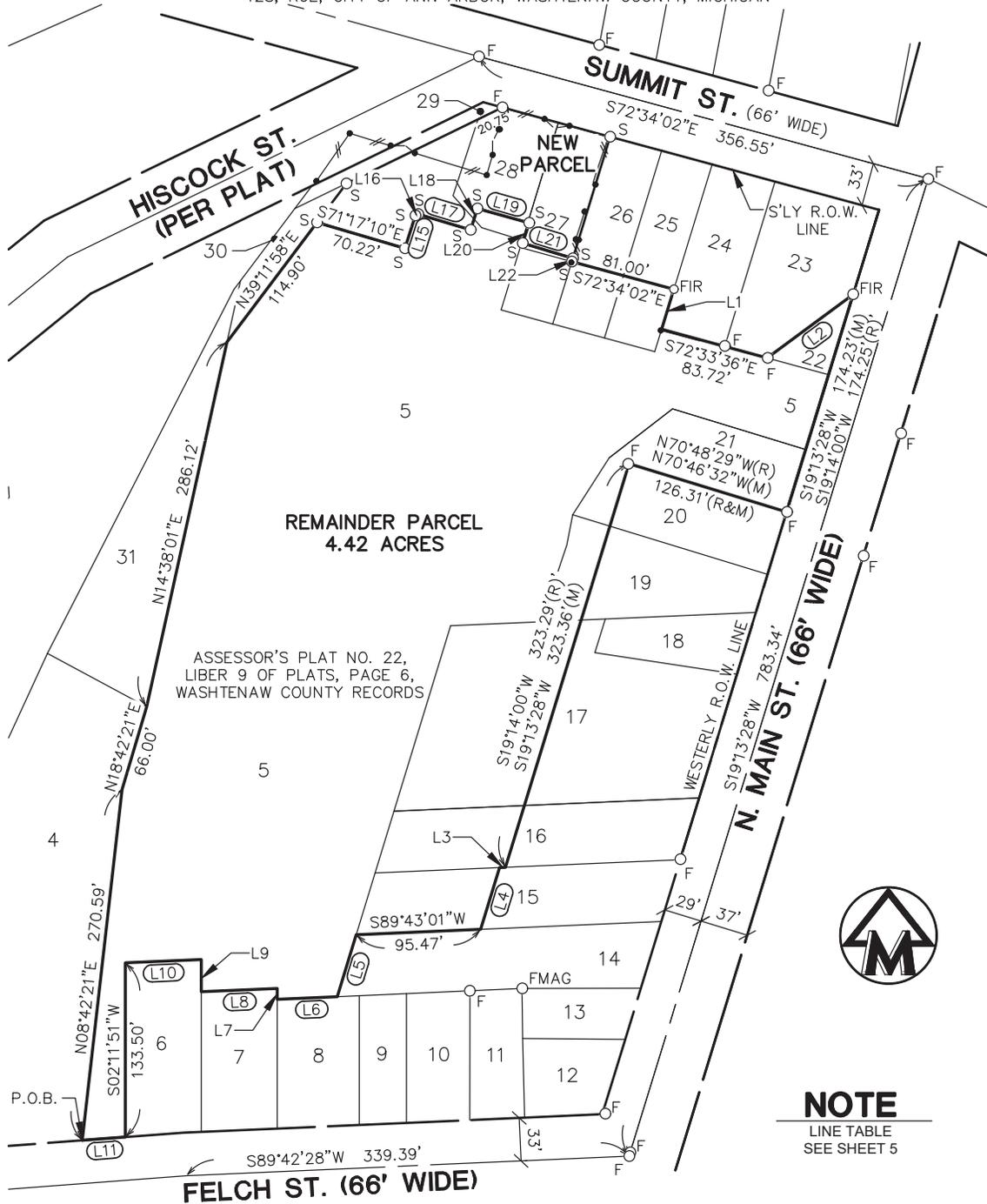


**M I D W E S T E R N**  
**C O N S U L T I N G**

3815 Plaza Drive Ann Arbor, Michigan 48108  
(734) 995-0200 • www.midwesternconsulting.com  
Land Development • Land Survey • Institutional • Municipal  
Wireless Communications • Transportation • Landfill Services

# CERTIFIED SURVEY - REMAINDER PARCEL

CERTIFIED SURVEY OF A PARCEL OF LAND IN THE SE 1/4 OF SECTION 20,  
T2S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



ASSESSOR'S PLAT NO. 22,  
LIBER 9 OF PLATS, PAGE 6,  
WASHTENAW COUNTY RECORDS

**NOTE**  
LINE TABLE  
SEE SHEET 5

I HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL HEREON DESCRIBED ON FEBRUARY 6, 2023 AND THAT THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING AND THAT ALL REQUIREMENTS OF P.A. 132 1970, AS AMENDED, HAVE BEEN COMPLIED WITH.

CLIENT: ANN ARBOR HOUSING	DATE: 2/6/2023
JOB NO.: <b>22179</b>	SHEET 4 OF 5
SECTION: 20 TOWN: 2S RANGE: 6E	SCALE: 1in. = 100 ft.
CITY OF ANN ARBOR	BOOK: 1065
WASHTENAW COUNTY, MICHIGAN	BY: MST

*Mark Vander Veen*

MARK VANDER VEEN PS NO. 4001056788

STATE OF MICHIGAN

MARK VANDER VEEN

PROFESSIONAL SURVEYOR

No. 4001056788

LICENSED PROFESSIONAL SURVEYOR



**M I D W E S T E R N**  
**C O N S U L T I N G**

3815 Plaza Drive Ann Arbor, Michigan 48108  
(734) 995-0200 • www.midwesternconsulting.com  
Land Development • Land Survey • Institutional • Municipal  
Wireless Communications • Transportation • Landfill Services

# LEGAL DESCRIPTION - REMAINDER PARCEL

A parcel of land in the Southeast 1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, being described as follows:

BEGINNING at the Southeast corner of Lot 4, Assessor's Plat No. 22, recorded in Liber 9 of Plats, Page 6, Washtenaw County Records;

thence the following two courses along the Easterly line of said Lot 4, N08°42'21"E, 270.59 feet and N18°42'21"E 66.00 feet;  
 thence N14°38'01"E 286.12 feet along the Easterly line of Lot 31 of said Plat;  
 thence N39°11'58"E 114.90 feet along the Easterly line of Lot 30 of said Plat;  
 thence S71°17'10"E 70.22 feet;  
 thence N19°51'36"E 26.44 feet;  
 thence N64°26'35"E 2.36 feet;  
 thence S70°58'26"E 41.97 feet;  
 thence N19°29'18"E 17.24 feet;  
 thence S72°05'49"E 41.21 feet;  
 thence S19°59'47"W 16.24 feet;  
 thence S70°48'46"E 40.15 feet;  
 thence S19°13'45"W 2.47 feet;  
 thence S72°34'02"E 81.00 feet;  
 thence S19°13'46"W 32.00 feet;  
 thence S72°33'36"E 83.72 feet;  
 thence N55°47'55"E 81.84 feet;  
 thence S19°13'28"W 174.23 feet along the West right-of-way line of N. Main Street (66 feet wide);  
 thence N70°46'32"W 126.31 feet along the South line of Lot 21 of said Plat.  
 thence S19°13'28"W 323.36 feet;  
 thence S89°43'06"W 4.55 feet;  
 thence S19°12'34"W 49.53 feet;  
 thence S89°43'01"W 95.47 feet along the North line of Lot 14 of said Plat;  
 thence S19°12'34"W 49.53 feet along the West line of said Lot 14;  
 thence S89°43'00"W 46.01 feet along the North line of Lot 8 of said Plat;  
 thence N02°13'00"E 8.25 feet along the East line of Lot 7 of said Plat;  
 thence 89°43'00"W 58.25 feet along the North line of said Lot 7;  
 thence N02°12'46"E 24.75 feet along the East line of Lot 6 of said Plat;  
 thence S89°41'51"W 58.25 feet along the North line of said Lot 6;  
 thence S02°11'51"W 133.50 feet along the West line of said Lot 6;  
 thence S87°52'58"W 33.10 feet along the North line of Felch Street (66 feet wide) to the POINT OF BEGINNING, being part of Lots 5, 15, 16, 17, 19, 20, 25, 26, 27 and 28 of Assessor's Plat No. 22. Containing 4.42 acres of land, more or less. Being subject to any easements, and/or restrictions, if any.

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S19°13'46"W	32.00'
L2	N55°47'55"E	81.82'(R)
	N55°47'55"E	81.84'(M)
L3	S89°43'06"W	4.45'(R)
	S89°43'06"W	4.55'(M)
L4	S19°12'34"W	49.53'
L5	S19°12'34"W	49.53'
L6	S89°43'00"W	46.01'
L7	N02°13'00"E	8.25'
L8	S89°43'00"W	58.25'
L9	N02°12'46"E	24.75'
L10	S89°41'51"W	58.25'
L11	S87°52'21"W(R)	33.10'
	S87°52'58"W(M)	33.10'

LINE TABLE		
LINE	BEARING	DISTANCE
L15	N19°51'36"E	26.44'
L16	N64°26'35"E	2.36'
L17	S70°58'26"E	41.97'
L18	N19°29'18"E	17.24'
L19	S72°05'49"E	41.21'
L20	S19°59'47"W	16.24'
L21	S70°48'46"E	40.15'
L22	S19°13'45"W	2.47'

I HEREBY CERTIFY THAT I HAVE SURVEYED AND MAPPED THE ABOVE PARCEL HEREON DESCRIBED ON FEBRUARY 6, 2023 AND THAT THE RELATIVE POSITIONAL PRECISION OF EACH CORNER IS WITHIN THE LIMITS ACCEPTED BY THE PRACTICE OF PROFESSIONAL SURVEYING AND THAT ALL REQUIREMENTS OF P.A. 132 1970, AS AMENDED, HAVE BEEN COMPLIED WITH.

CLIENT: ANN ARBOR HOUSING	DATE: 2/6/2023
JOB NO.: <b>22179</b>	SHEET 5 OF 5
SECTION: 20 TOWN: 2S RANGE: 6E	SCALE: 1in. = 100 ft.
CITY OF ANN ARBOR	BOOK: 1065
WASHTENAW COUNTY, MICHIGAN	BY: MST

*Mark Vander Veen*

MARK VANDER VEEN PS NO. 4001056788



**M I D W E S T E R N**  
C O N S U L T I N G

3815 Plaza Drive Ann Arbor, Michigan 48108  
 (734) 995-0200 • www.midwesternconsulting.com  
 Land Development • Land Survey • Institutional • Municipal  
 Wireless Communications • Transportation • Landfill Services



BUILDING AND USE DEED RESTRICTIONS  
FOR  
721 N. MAIN FLOODWAY

130/9

The City of Ann Arbor, a Michigan municipal corporation (the "City"), being the owner of the real estate commonly known as 721 N. Main, Ann Arbor, MI 48104, situated in the City of Ann Arbor, County of Washtenaw, and State of Michigan, described on the attached Exhibit A (the "Property"), effective 12 day of September, 2013, do hereby place the following Building and Use Restrictions upon the floodway portion of the Property described on the attached Exhibit B and illustrated by the drawing attached as Exhibit C (the "Restricted Property") in accordance with and authorized by a certain Resolution of the Ann Arbor City Council known as R 13-155, approved March 4, 2013, and declare them to be a covenant running with the Restricted Property as stated here below.

RECITALS:

Whereas, the Robert T. Stafford Disaster Relief and Emergency Assistance Act ("The Stafford Act"), Pub. L. No. 93-288 (1974), 42 U.S.C. §et seq., identifies the use of funds under Section 404 of the Act, 42 U.S.C. §5170c, for hazard mitigation grants to assist States and local governments in implementing cost-effective hazard mitigation measures to reduce the risk of future damages, hardship, loss or suffering in any area affected by a major disaster;

Whereas, the mitigation grant program provides a process for a local government, through the State, to apply for federal funds for mitigation assistance to demolish and/or remove structures, and to maintain the use of the Property as open space in perpetuity;

Whereas, the State of Michigan has applied for and been awarded such funding, from the Department of Homeland Security, Federal Emergency Management Agency ("FEMA") and has entered into a mitigation grant program Grant Agreement dated October 5, 2012 with FEMA and herein incorporated by reference;

Whereas, pursuant to the Hazard Mitigation Grant Agreement between FEMA and the State, the State of Michigan is the mitigation grant program Grantee;

Whereas, the Restricted Property is located in the City of Ann Arbor, Washtenaw County, Michigan; and the City of Ann Arbor and the Township of Ann Arbor participate in the National Flood Insurance Program ("NFIP") and are in good standing with NFIP as of the date of this instrument;

Whereas, the City of Ann Arbor, acting by and through the Ann Arbor City Council, has applied for and been awarded federal hazard mitigation grant funds pursuant to an agreement with the State of Michigan dated April 1, 2013 ("State-Local Agreement"), and herein incorporated by reference;

Whereas, pursuant to the State-Local Agreement, the City of Ann Arbor is the mitigation grant program Subgrantee;

Whereas, the terms of the mitigation grant program statutory authorities, Federal program requirements consistent with 44 C.F.R., Part 80, the Grant Agreement, and the State-Local Agreement require the Grantee and Subgrantee agree to conditions that restrict the use of the land to open space in perpetuity in order to protect and preserve natural floodplain values.

#### RESTRICTION:

Section 1. Terms. The City of Ann Arbor, owner of the Restricted Property identified as Parcel No. 09-09-20-409-006, has obtained a federal hazard mitigation grant, through the State of Michigan, to permanently remove structures located within the floodway portion of the Property. Pursuant to the terms of the Hazard Mitigation Grant Program statutory authorities, Federal program requirements consistent with 44 C.F.R. Part 80, the Grant Agreement, and the State-Local Agreement, the following conditions and restrictions shall apply in perpetuity to maintain as open space, consistent with FEMA program requirements concerning the acquisition of property for open space, the Floodway Portion of Property (hereinafter referred to as the "Restricted Property") specifically identified by metes and bounds legal description in attached Exhibit B:

- a. Compatible uses. The Restricted Property shall be dedicated and maintained in perpetuity as open space for the conservation of natural floodplain functions. Such uses may include parks for outdoor recreational activities, wetlands management, nature reserves, cultivation, grazing,

camping (except where adequate warning time is not available to allow evacuation), unimproved and unpaved parking lots, permeable parking lots, buffer zones, and other uses consistent with FEMA guidance for open space acquisition, Hazard Mitigation Assistance, and Requirements for Property Acquisition and Relocation for Open Space.

- b. **Structures.** No new structures or improvements shall be erected on the Restricted Property other than:
- i. A public facility that is open on all sides and functionally related to a designated open space or recreational use;
  - ii. A public rest room; or
  - iii. A structure that is compatible with open space and conserves the natural function of the floodplain, including the uses described in Paragraph 1.a. above, and approved by the FEMA Administrator in writing before construction of the structure begins.

Any improvements on the Restricted Property shall be in accordance with proper floodplain management policies and practices. Structures built on the Property according to paragraph b. of this section shall be floodproofed or elevated to at least the base flood level plus one (1) foot of freeboard, or greater, if required by FEMA, or if required by any State, Tribal, or local ordinance, and in accordance with criteria established by the FEMA Administrator.

- c. **Disaster Assistance and Flood Insurance.** No Federal entity or source may provide disaster assistance for any purpose with respect to the Restricted Property, nor may any application for such assistance be made to any Federal entity or source. The Restricted Property is not eligible for coverage under the NFIP for damage to structures on the property occurring after the date of the property settlement, except for pre-existing structures being relocated off the property as a result of the project.
- d. **Transfer.** The City, including successors in interest, shall convey any interest in the Restricted Property only if the FEMA Regional Administrator, through the State, gives prior written approval of the transferee in accordance with this paragraph.
- i. The request by the City, through the State, to the FEMA Regional Administrator must include a signed statement from the proposed transferee that it acknowledges and agrees to be bound by the terms of this section, and documentation of its status as a qualified conservation organization if applicable.
  - ii. The City may convey a property interest only to a public entity or to a qualified conservation organization. However, the City may convey an easement or lease to a private individual or entity for purposes compatible with the uses described in paragraph 1.a of this section, with the prior approval of the FEMA Regional Administrator, and so

- long as the conveyance does not include authority to control and enforce the terms and conditions of this section.
- iii. If title to the Restricted Property is transferred to a public entity other than one with a conservation mission, it must be conveyed subject to a conservation easement that shall be recorded with the deed and shall incorporate all terms and conditions set forth in this section, including the easement holder's responsibility to enforce the easement. This shall be accomplished by one of the following means:
    - a) The City shall convey, in accordance with this paragraph, a conservation easement to an entity other than the title holder, which shall be recorded with the deed, or
    - b) At the time of title transfer, the City shall retain such conservation easement, and record it with the deed.
  - iv. Conveyance of any property interest must reference and incorporate the original deed restrictions providing notice of the conditions in this section and must incorporate a provision for the property interest to revert to the State, Tribe, or local government in the event that the transferee ceases to exist or loses its eligible status under this section.

**Section 2. Inspection.** FEMA, its representatives, and assigns including the State of Michigan shall have the right to enter upon the Restricted Property, at reasonable times and with reasonable notice, for the purpose of inspecting the Restricted Property to ensure compliance with the terms of this part, the Restricted Property conveyance and of the grant award.

**Section 3. Monitoring and Reporting.** Every three years on September 1st, the City (mitigation grant program Subgrantee), in coordination with any current successor in interest, shall submit through the State to the FEMA Regional Administrator a report certifying that the City has inspected the subject Restricted Property within the month preceding the report, and that the Restricted Property continues to be maintained consistent with the provisions of 44 C.F.R. Part 80, the property conveyance, and the grant award.

**Section 4. Enforcement.** The City (mitigation grant program Subgrantee), the State, FEMA and their respective representatives, successors and assigns, are responsible for taking measures to bring the Restricted Property back into compliance if the Restricted Property is not maintained according to the terms of 44 C.F.R. Part 80, the property conveyance, and the grant award. The relative rights and responsibilities of FEMA, the State, the City, and subsequent holders of the property interest at the time of enforcement, shall include the following:

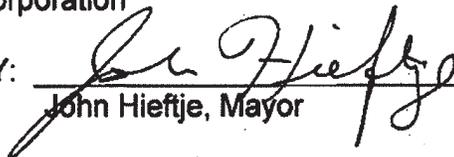
- a. The State will notify the City and any current holder of the property interest in writing and advise them that they have 60 days to correct the violation.
  - i. If the City or any current holder of the property interest fails to demonstrate a good faith effort to come into compliance with the terms of the grant within the 60-day period, the State shall enforce the terms of the grant by taking any measures it deems appropriate, including but not limited to bringing an action at law or in equity in a court of competent jurisdiction.
  - ii. FEMA, its representatives and assigns may enforce the terms of the grant by taking any measures it deems appropriate, including but not limited to the following:
    - a) Withholding FEMA mitigation awards or assistance from the State or Tribe, the City (mitigation grant program Subgrantee), and the current holder of the property interest.
    - b) Requiring transfer of title. The City or the current holder of the property interest shall bear the costs of bringing the Restricted Property back into compliance with the terms of the grant.
    - c) Bringing an action at law or in equity in a court of competent jurisdiction against any and all of the following parties: the State, the Tribe, the local community, and their respective successors.

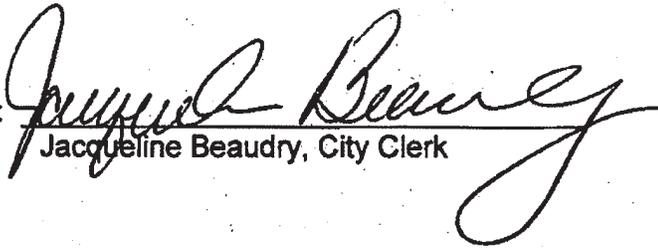
**Section 5. Amendment.** These restrictions shall be deemed covenants running with the land and shall be binding upon any and all persons hereinafter accepting a deed or other conveyance of the Restricted Property unless amended upon signatures of FEMA, the State, and the City only to the extent that such amendment does not affect the fundamental and statutory purposes underlying the federal hazard mitigation grant agreement entered into by the City referenced above.

**Section 6. Severability.** Should any provision of the federal hazard mitigation grant referenced above or the application thereof to any person or circumstance be found to be invalid or unenforceable, the rest and remainder of the provisions of the grant and their application shall not be affected and shall remain valid and enforceable.

CITY OF ANN ARBOR, a Michigan municipal Corporation

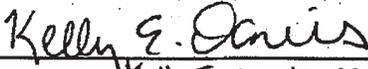
BY: \_\_\_\_\_

  
John Hieftje, Mayor

BY:   
Jacqueline Beaudry, City Clerk

STATE OF MICHIGAN  
COUNTY OF WASHTENAW

The foregoing document was acknowledged before me this 12 day of September, 2013, by John Hieftje, Mayor and Jacqueline Beaudry, City Clerk of the City of Ann Arbor, Michigan, on behalf of the City of Ann Arbor.

  
\_\_\_\_\_  
Kelly E. Davis, Notary Public  
Washtenaw County, Michigan  
Acting in Washtenaw County, Michigan  
My commission expires: 03-18-2020

This document prepared by and  
when recorded return to:  
Mary Joan Fales (P37142)  
City of Ann Arbor City Attorney's Office  
301 E. Huron St.  
Ann Arbor, Michigan 48104

Tax Parcel No. 09-09-20-409-006 (portion of)

**EXHIBIT A  
PROPERTY LEGAL DESCRIPTION**

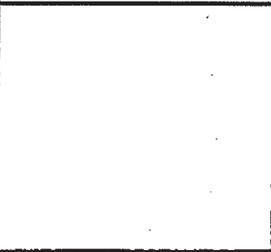
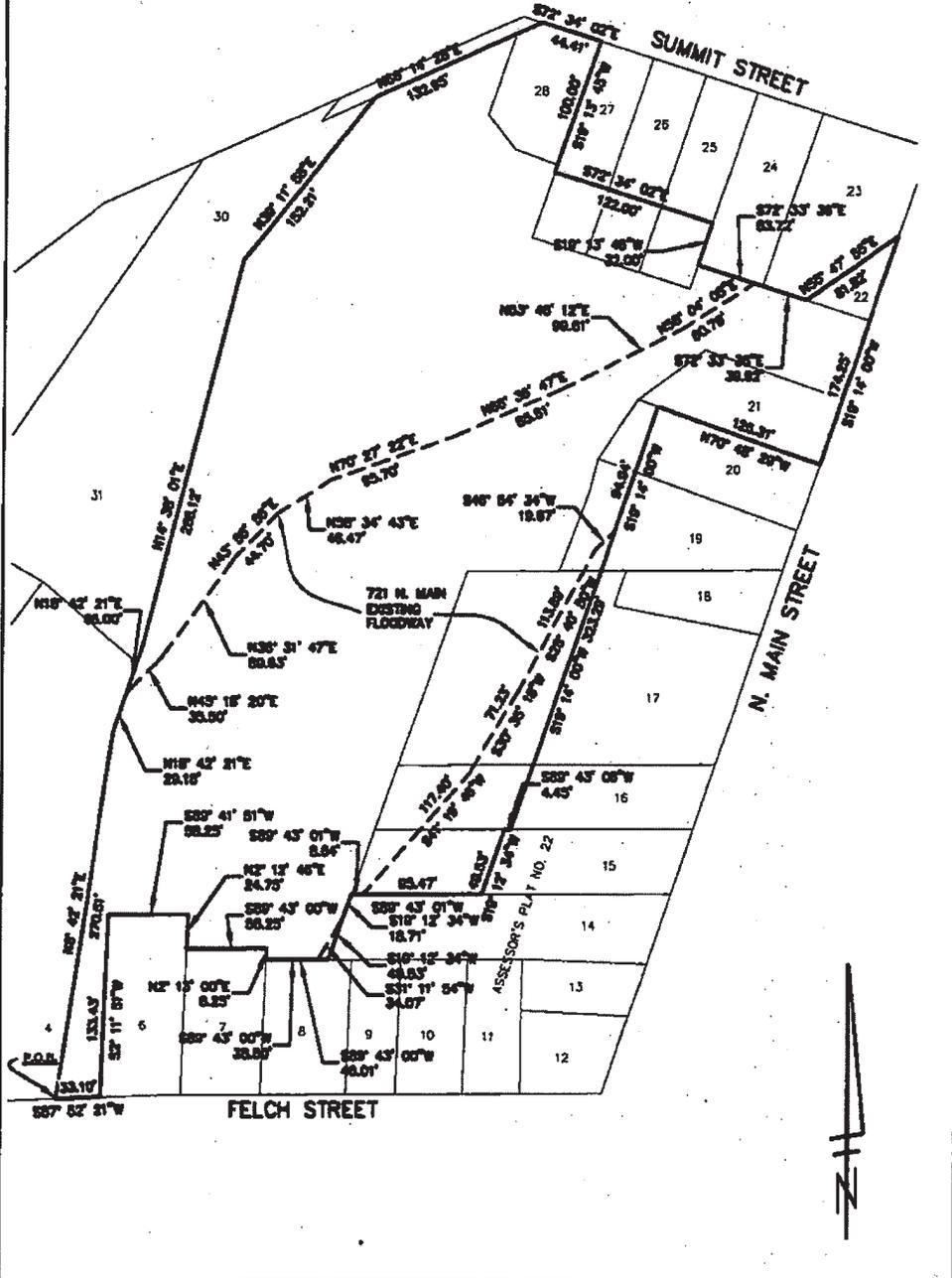
Beginning at the S.E. corner of Lot 4, Assessor's Plat No. 22 located in the City of Ann Arbor and recorded in Liber 9 of plats, Page 6, Washtenaw County records, Washtenaw County, Michigan; thence the following two courses along the Easterly line of said Lot 4, N 08°42'21" E, 270.51 feet and N 18°42'21" E 66.00 feet; thence along the Easterly line of Lot 31 of said plat N 14°38'01" E 286.12 feet; thence along the Easterly line of Lot 30 of said plat N 39°11'58" E 152.21 feet; thence along the Southeasterly line of Lot 29 N 66°14'28" E 132.95 feet; thence along the Southerly right of way of Summit Street S 72°34'02" E 44.41 feet (recorded as S 72°33'30" E); thence along the Westerly line of Lot 27 of said plat S 19°13'45" W 100.00 feet; thence S 72°34'02" E 122.00 feet; thence along the Westerly line of Lot 24 of said plat S 19°13'46" W 32.00 feet; thence along the Southerly line of Lots 24 & 23 of said plat S 72°33'36" E 83.72 feet; thence along the Southeasterly line of said Lot 23 N 55°47'55" E 81.82 feet; thence along the Westerly right of way of N. Main Street S 19°14'00" W 174.25 feet; thence along the Northerly line of Lot 20 of said plat N 70°48'29" W 126.31 feet; thence S 19°14'00" W 323.29 feet; thence along the Northerly line of Lot 15 of said plat S 89°43'06" W 4.45 feet; thence S 19°12'34" W 49.53 feet; thence along the North line of Lot 14 of said plat S 89°43'01" W 95.47 feet; thence along the Westerly line of said Lot 14 S 19°12'34" W 49.53 feet; thence the following six courses along Lots 8, 7, & 6, of said plat S 89°43'00" W 46.01 feet, N 02°13'00" E 8.25 feet, S 89°43'00" W 58.25 feet, N 02°12'46" E 24.75 feet; S 89°41'51" W 58.25 feet, and S 02°11'51" W 133.43 feet; thence along the Northerly right of way of Felch Street S 87°52'21" W 33.10 feet to the Point of Beginning. Being a part of said Assessor's Plat No. 22 and containing 4.625 acres of land, more or less. Subject to easements of record.

**EXHIBIT B  
RESTRICTED PROPERTY LEGAL DESCRIPTION**

Beginning at the S.E. corner of Lot 4, Assessor's Plat No. 22 located in the City of Ann Arbor and recorded in Liber 9 of plats, Page 6, Washtenaw County records, Washtenaw County, Michigan; thence the following two courses along the Easterly line of said Lot 4, N 08°42'21" E, 270.51 feet and N 18°42'21" E 29.18 feet; thence N 45°18'20" E 35.50 feet; thence N 36°31'47" E 89.63 feet; thence N 43°56'56" E 44.70 feet; thence N 58°34'43" E 46.47 feet; thence N 70°27'22" E 95.70 feet; thence N 66°36'47" E 85.51 feet; thence N 63°46'12" E 99.81 feet; thence N 58°04'08" E 60.79 feet; thence along the Southerly line of Lot 23 & 24 of said plat S 72°33'36" E 39.92 feet; thence along the Southeasterly line of said Lot 23 N 55°47'55" E 81.82 feet; thence along the Westerly right of way line of N. Main Street S 19°14'00" W 174.25 feet; thence along the Southerly line of Lot 21 of said plat N 70°48'29" W 126.31 feet; thence S 19°14'00" W 94.94 feet; thence S 46°54'34" W 19.67 feet; thence S 28°40'50" W 113.89 feet; thence S 30°35'18" W 71.23 feet; thence S 41°19'46" W 117.40 feet; thence along the Southerly line of Lot 15 of said plat S 89°43'01" W 8.64 feet; thence along the Westerly line of Lot 14 of said plat S 19°12'34" W 18.71 feet; thence S 31°11'54" W 34.07 feet; thence the following six courses along Lots 8, 7, & 6, of said plat S 89°43'00" W 38.50 feet, N 02°13'00" E 8.25 feet, S 89°43'00" W 58.25 feet, N 02°12'46" E 24.75 feet; S 89°41'51" W 58.25 feet, and S 02°11'51" W 133.43 feet; thence along the Northerly right of way of Felch Street S 87°52'21" W 33.10 feet to the Point of Beginning. Being a part of said Assessor's Plat No. 22 and containing 2.56 acres of land, more or less. Subject to easements of record.

721 N. MAIN / FLOODWAY

EXHIBIT C



FLOODWAY DESCRIPTION  
721 N. MAIN  
CITY OF ANN ARBOR

SCALE: 1"=100'



09 SEPT 2013

CITY OF ANN ARBOR

SHEET No. 1 of 2

RIGHT-OF-WAY AGREEMENT

This Indenture, Made this 13<sup>th</sup> day of MAY,

1959, between the CITY OF ANN ARBOR, a Michigan Municipal Corporation,  
party of the first part, and ANN ARBOR COMMUNITY CENTER, INC., a  
625 North Main Street, ANN ARBOR, MICHIGAN  
Michigan Corporation, party of the second part,

Witnesseth:

That the said party of the first part in consideration of the  
agreements herein contained does by these presents grant and convey  
to and unto the second party, its successors and assigns, a twelve  
(12) foot right-of-way for storm sewer purposes, six (6) feet either  
side of the following described center line:

Commencing at the NW corner of Lot 18 of  
Assessor's Plat No. 22, City of Ann Arbor,  
Washtenaw County, Michigan, thence wester-  
ly along the north line of Lot 17 of said  
Assessor's Plat, 18.36 feet; thence south-  
westerly deflecting 70° 30' to the left  
25.0 feet for a PLACE OF BEGINNING; thence  
northwesterly deflecting 103° 00' to the  
right 148.6 feet to the center of the Allen  
Creek Drain for a place of ending;

said party of the second part to have the right to construct and  
maintain within said right-of-way a storm sewer to service the prop-  
erty of the party of the second part to the east of the property over  
which the above described right-of-way passes.

In the construction of said storm sewer, the plans and specifica-  
tions thereof shall first be approved by the Superintendent of Public  
Works of the City of Ann Arbor and the party of the first part hereby  
expressly reserves to itself the right to make a connection or connec-  
tions into the storm sewer line to be constructed for the installation  
of inlets within the City property through which the said sewer passes.

The party of the second part agrees that in the construction and  
repair of said storm sewer there shall be caused as little damage to  
the said land and premises as possible and after such construction and  
and repair, the party of the second part shall and will leave the land

in like good condition as it was when any such construction or repair shall have been commenced.

*OK*  
*Jacob F. Fahrner Jr*  
*Council*  
\_\_\_\_\_  
Jacob F. Fahrner, Jr.

*Eugene S. Slider*  
\_\_\_\_\_  
Eugene S. Slider, Deputy Clerk

*John D. Bergren*  
\_\_\_\_\_  
John D. Bergren

*Council 7/2/59*

CITY OF ANN ARBOR  
By *Cecil O. Creal*  
\_\_\_\_\_  
Cecil O. Creal, Mayor

By *Fred J. Looker*  
\_\_\_\_\_  
Fred J. Looker, Clerk

ANN ARBOR COMMUNITY CENTER, INC.  
By *Paul L. Proud, Jr.*  
\_\_\_\_\_  
Paul L. Proud, Jr., President

By *Theolia C. Johnston*  
\_\_\_\_\_  
Theolia C. Johnston, Secretary

STATE OF MICHIGAN )  
                                  ) SS  
COUNTY OF WASHTENAW)

On this 13th day of May, A. D. 1959, before me, a Notary Public in and for said County, appeared Cecil O. Creal and Fred J. Looker, to me personally known, who being by me duly sworn did say that they are the Mayor and City Clerk of the CITY OF ANN ARBOR, the corporation named in and which executed the within instrument, and that the seal affixed to said instrument was signed and sealed in behalf of said corporation by authority of its Common Council and the said Mayor and City Clerk acknowledged said instrument to be the free act and deed of said corporation.

*John D. Bergren*  
\_\_\_\_\_  
John D. Bergren  
Notary Public, Washtenaw County, Michigan

My commission expires: Nov. 26, 1960

RECEIVED  
FOR RECORD  
Dec 18 3 53 PM '59  
PATRICIA NEWKIRK HARDY  
REGISTER OF DEEDS  
WASHTENAW COUNTY, MICH.

RECEIVED  
FOR RECORD  
Dec 18 3 53 PM '59  
PATRICIA NEWKIRK HARDY  
REGISTER OF DEEDS  
WASHTENAW COUNTY, MICH.



1/20/13

BUILDING AND USE DEED RESTRICTIONS  
FOR  
721 N. MAIN FLOODWAY

The City of Ann Arbor, a Michigan municipal corporation (the "City"), being the owner of the real estate commonly known as 721 N. Main, Ann Arbor, MI 48104, situated in the City of Ann Arbor, County of Washtenaw, and State of Michigan, described on the attached Exhibit A (the "Property"), effective 12 day of September, 2013, do hereby place the following Building and Use Restrictions upon the floodway portion of the Property described on the attached Exhibit B and illustrated by the drawing attached as Exhibit C (the "Restricted Property") in accordance with and authorized by a certain Resolution of the Ann Arbor City Council known as R 13-155, approved March 4, 2013, and declare them to be a covenant running with the Restricted Property as stated here below.

RECITALS:

Whereas, the Robert T. Stafford Disaster Relief and Emergency Assistance Act ("The Stafford Act"), Pub. L. No. 93-288 (1974), 42 U.S.C. §et seq., identifies the use of funds under Section 404 of the Act, 42 U.S.C. §5170c, for hazard mitigation grants to assist States and local governments in implementing cost-effective hazard mitigation measures to reduce the risk of future damages, hardship, loss or suffering in any area affected by a major disaster;

Whereas, the mitigation grant program provides a process for a local government, through the State, to apply for federal funds for mitigation assistance to demolish and/or remove structures, and to maintain the use of the Property as open space in perpetuity;

Time Submitted for Recording  
Date 9-13 2013 Time 1:28 pm  
Lawrence Kestenbaum  
Washtenaw County Clerk/Register

11

Whereas, the State of Michigan has applied for and been awarded such funding, from the Department of Homeland Security, Federal Emergency Management Agency ("FEMA") and has entered into a mitigation grant program Grant Agreement dated October 5, 2012 with FEMA and herein incorporated by reference;

Whereas, pursuant to the Hazard Mitigation Grant Agreement between FEMA and the State, the State of Michigan is the mitigation grant program Grantee;

Whereas, the Restricted Property is located in the City of Ann Arbor, Washtenaw County, Michigan; and the City of Ann Arbor and the Township of Ann Arbor participate in the National Flood Insurance Program ("NFIP") and are in good standing with NFIP as of the date of this instrument;

Whereas, the City of Ann Arbor, acting by and through the Ann Arbor City Council, has applied for and been awarded federal hazard mitigation grant funds pursuant to an agreement with the State of Michigan dated April 1, 2013 ("State-Local Agreement"), and herein incorporated by reference;

Whereas, pursuant to the State-Local Agreement, the City of Ann Arbor is the mitigation grant program Subgrantee;

Whereas, the terms of the mitigation grant program statutory authorities, Federal program requirements consistent with 44 C.F.R., Part 80, the Grant Agreement, and the State-Local Agreement require the Grantee and Subgrantee agree to conditions that restrict the use of the land to open space in perpetuity in order to protect and preserve natural floodplain values.

**RESTRICTION:**

Section 1. Terms. The City of Ann Arbor, owner of the Restricted Property identified as Parcel No. 09-09-20-409-006, has obtained a federal hazard mitigation grant, through the State of Michigan, to permanently remove structures located within the floodway portion of the Property. Pursuant to the terms of the Hazard Mitigation Grant Program statutory authorities, Federal program requirements consistent with 44 C.F.R. Part 80, the Grant Agreement, and the State-Local Agreement, the following conditions and restrictions shall apply in perpetuity to maintain as open space, consistent with FEMA program requirements concerning the acquisition of property for open space, the Floodway Portion of Property (hereinafter referred to as the "Restricted Property") specifically identified by metes and bounds legal description in attached Exhibit B:

- a. Compatible uses. The Restricted Property shall be dedicated and maintained in perpetuity as open space for the conservation of natural floodplain functions. Such uses may include parks for outdoor recreational activities, wetlands management, nature reserves, cultivation, grazing,

camping (except where adequate warning time is not available to allow evacuation), unimproved and unpaved parking lots, permeable parking lots, buffer zones, and other uses consistent with FEMA guidance for open space acquisition, Hazard Mitigation Assistance, and Requirements for Property Acquisition and Relocation for Open Space.

- b. Structures. No new structures or improvements shall be erected on the Restricted Property other than:
- i. A public facility that is open on all sides and functionally related to a designated open space or recreational use;
  - ii. A public rest room; or
  - iii. A structure that is compatible with open space and conserves the natural function of the floodplain, including the uses described in Paragraph 1.a. above, and approved by the FEMA Administrator in writing before construction of the structure begins.

Any improvements on the Restricted Property shall be in accordance with proper floodplain management policies and practices. Structures built on the Property according to paragraph b. of this section shall be floodproofed or elevated to at least the base flood level plus one (1) foot of freeboard, or greater, if required by FEMA, or if required by any State, Tribal, or local ordinance, and in accordance with criteria established by the FEMA Administrator.

- c. Disaster Assistance and Flood Insurance. No Federal entity or source may provide disaster assistance for any purpose with respect to the Restricted Property, nor may any application for such assistance be made to any Federal entity or source. The Restricted Property is not eligible for coverage under the NFIP for damage to structures on the property occurring after the date of the property settlement, except for pre-existing structures being relocated off the property as a result of the project.
- d. Transfer. The City, including successors in interest, shall convey any interest in the Restricted Property only if the FEMA Regional Administrator, through the State, gives prior written approval of the transferee in accordance with this paragraph.
- i. The request by the City, through the State, to the FEMA Regional Administrator must include a signed statement from the proposed transferee that it acknowledges and agrees to be bound by the terms of this section, and documentation of its status as a qualified conservation organization if applicable.
  - ii. The City may convey a property interest only to a public entity or to a qualified conservation organization. However, the City may convey an easement or lease to a private individual or entity for purposes compatible with the uses described in paragraph 1.a of this section, with the prior approval of the FEMA Regional Administrator, and so

- long as the conveyance does not include authority to control and enforce the terms and conditions of this section.
- iii. If title to the Restricted Property is transferred to a public entity other than one with a conservation mission, it must be conveyed subject to a conservation easement that shall be recorded with the deed and shall incorporate all terms and conditions set forth in this section, including the easement holder's responsibility to enforce the easement. This shall be accomplished by one of the following means:
    - a) The City shall convey, in accordance with this paragraph, a conservation easement to an entity other than the title holder, which shall be recorded with the deed, or
    - b) At the time of title transfer, the City shall retain such conservation easement, and record it with the deed.
  - iv. Conveyance of any property interest must reference and incorporate the original deed restrictions providing notice of the conditions in this section and must incorporate a provision for the property interest to revert to the State, Tribe, or local government in the event that the transferee ceases to exist or loses its eligible status under this section.

Section 2. Inspection. FEMA, its representatives, and assigns including the State of Michigan shall have the right to enter upon the Restricted Property, at reasonable times and with reasonable notice, for the purpose of inspecting the Restricted Property to ensure compliance with the terms of this part, the Restricted Property conveyance and of the grant award.

Section 3. Monitoring and Reporting. Every three years on September 1st, the City (mitigation grant program Subgrantee), in coordination with any current successor in interest, shall submit through the State to the FEMA Regional Administrator a report certifying that the City has inspected the subject Restricted Property within the month preceding the report, and that the Restricted Property continues to be maintained consistent with the provisions of 44 C.F.R. Part 80, the property conveyance, and the grant award.

Section 4. Enforcement. The City (mitigation grant program Subgrantee), the State, FEMA and their respective representatives, successors and assigns, are responsible for taking measures to bring the Restricted Property back into compliance if the Restricted Property is not maintained according to the terms of 44 C.F.R. Part 80, the property conveyance, and the grant award. The relative rights and responsibilities of FEMA, the State, the City, and subsequent holders of the property interest at the time of enforcement, shall include the following:

- a. The State will notify the City and any current holder of the property interest in writing and advise them that they have 60 days to correct the violation.
  - i. If the City or any current holder of the property interest fails to demonstrate a good faith effort to come into compliance with the terms of the grant within the 60-day period, the State shall enforce the terms of the grant by taking any measures it deems appropriate, including but not limited to bringing an action at law or in equity in a court of competent jurisdiction.
  - ii. FEMA, its representatives and assigns may enforce the terms of the grant by taking any measures it deems appropriate, including but not limited to the following:
    - a) Withholding FEMA mitigation awards or assistance from the State or Tribe, the City (mitigation grant program Subgrantee), and the current holder of the property interest.
    - b) Requiring transfer of title. The City or the current holder of the property interest shall bear the costs of bringing the Restricted Property back into compliance with the terms of the grant.
    - c) Bringing an action at law or in equity in a court of competent jurisdiction against any and all of the following parties: the State, the Tribe, the local community, and their respective successors.

Section 5. Amendment. These restrictions shall be deemed covenants running with the land and shall be binding upon any and all persons hereinafter accepting a deed or other conveyance of the Restricted Property unless amended upon signatures of FEMA, the State, and the City only to the extent that such amendment does not affect the fundamental and statutory purposes underlying the federal hazard mitigation grant agreement entered into by the City referenced above.

Section 6. Severability. Should any provision of the federal hazard mitigation grant referenced above or the application thereof to any person or circumstance be found to be invalid or unenforceable, the rest and remainder of the provisions of the grant and their application shall not be affected and shall remain valid and enforceable.

CITY OF ANN ARBOR, a Michigan municipal Corporation

BY:   
John Hieftje, Mayor

BY: Jacqueline Beaudry  
Jacqueline Beaudry, City Clerk

STATE OF MICHIGAN  
COUNTY OF WASHTENAW

The foregoing document was acknowledged before me this \_\_\_ day of September, 2013, by John Hieftje, Mayor and Jacqueline Beaudry, City Clerk of the City of Ann Arbor, Michigan, on behalf of the City of Ann Arbor.

Kelly E. Davis  
Kelly E. Davis, Notary Public  
Washtenaw County, Michigan  
Acting in Washtenaw County, Michigan  
My commission expires: 03-18-2020

This document prepared by and  
when recorded return to:  
Mary Joan Fales (P37142)  
City of Ann Arbor City Attorney's Office  
301 E. Huron St.  
Ann Arbor, Michigan 48104

Tax Parcel No. 09-09-20-409-006 (portion of)

**EXHIBIT A  
PROPERTY LEGAL DESCRIPTION**

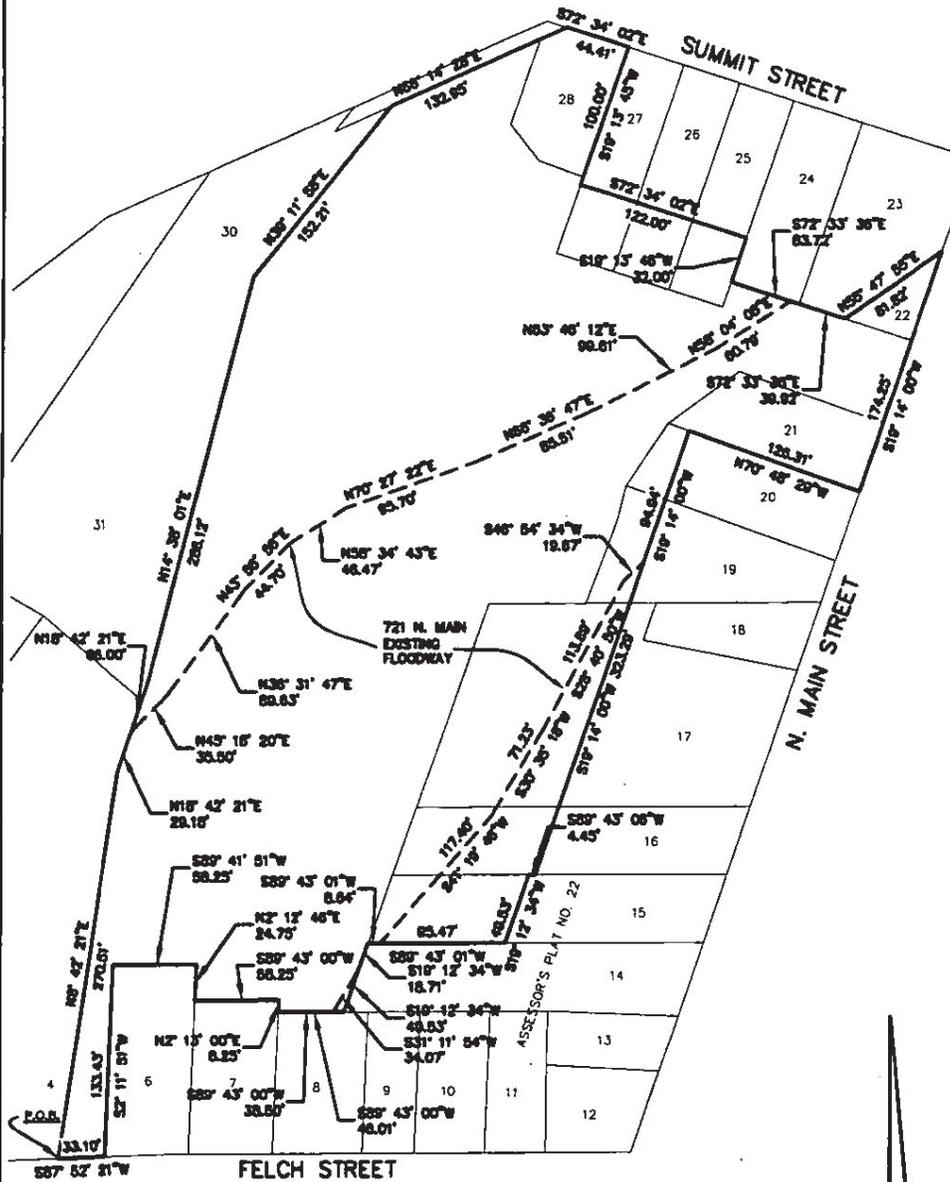
Beginning at the S.E. corner of Lot 4, Assessor's Plat No. 22 located in the City of Ann Arbor and recorded in Liber 9 of plats, Page 6, Washtenaw County records, Washtenaw County, Michigan; thence the following two courses along the Easterly line of said Lot 4, N 08°42'21" E, 270.51 feet and N 18°42'21" E 66.00 feet; thence along the Easterly line of Lot 31 of said plat N 14°38'01" E 286.12 feet; thence along the Easterly line of Lot 30 of said plat N 39°11'58" E 152.21 feet; thence along the Southeasterly line of Lot 29 N 66°14'28" E 132.95 feet; thence along the Southerly right of way of Summit Street S 72°34'02" E 44.41 feet (recorded as S 72°33'30" E); thence along the Westerly line of Lot 27 of said plat S 19°13'45" W 100.00 feet; thence S 72°34'02" E 122.00 feet; thence along the Westerly line of Lot 24 of said plat S 19°13'46" W 32.00 feet; thence along the Southerly line of Lots 24 & 23 of said plat S 72°33'36" E 83.72 feet; thence along the Southeasterly line of said Lot 23 N 55°47'55" E 81.82 feet; thence along the Westerly right of way of N. Main Street S 19°14'00" W 174.25 feet; thence along the Northerly line of Lot 20 of said plat N 70°48'29" W 126.31 feet; thence S 19°14'00" W 323.29 feet; thence along the Northerly line of Lot 15 of said plat S 89°43'06" W 4.45 feet; thence S 19°12'34" W 49.53 feet; thence along the North line of Lot 14 of said plat S 89°43'01" W 95.47 feet; thence along the Westerly line of said Lot 14 S 19°12'34" W 49.53 feet; thence the following six courses along Lots 8, 7, & 6, of said plat S 89°43'00" W 46.01 feet, N 02°13'00" E 8.25 feet, S 89°43'00" W 58.25 feet, N 02°12'46" E 24.75 feet, S 89°41'51" W 58.25 feet, and S 02°11'51" W 133.43 feet; thence along the Northerly right of way of Felch Street S 87°52'21" W 33.10 feet to the Point of Beginning. Being a part of said Assessor's Plat No. 22 and containing 4.625 acres of land, more or less. Subject to easements of record.

**EXHIBIT B**  
**RESTRICTED PROPERTY LEGAL DESCRIPTION**

Beginning at the S.E. corner of Lot 4, Assessor's Plat No. 22 located in the City of Ann Arbor and recorded in Liber 9 of plats, Page 6, Washtenaw County records, Washtenaw County, Michigan; thence the following two courses along the Easterly line of said Lot 4, N 08°42'21" E, 270.51 feet and N 18°42'21" E 29.18 feet; thence N 45°18'20" E 35.50 feet; thence N 36°31'47" E 89.63 feet; thence N 43°56'56" E 44.70 feet; thence N 58°34'43" E 46.47 feet; thence N 70°27'22" E 95.70 feet; thence N 66°36'47" E 85.51 feet; thence N 63°46'12" E 99.81 feet; thence N 58°04'08" E 60.79 feet; thence along the Southerly line of Lot 23 & 24 of said plat S 72°33'36" E 39.92 feet; thence along the Southeasterly line of said Lot 23 N 55°47'55" E 81.82 feet; thence along the Westerly right of way line of N. Main Street S 19°14'00" W 174.25 feet; thence along the Southerly line of Lot 21 of said plat N 70°48'29" W 126.31 feet; thence S 19°14'00" W 94.94 feet; thence S 46°54'34" W 19.67 feet; thence S 28°40'50" W 113.89 feet; thence S 30°35'18" W 71.23 feet; thence S 41°19'46" W 117.40 feet; thence along the Southerly line of Lot 15 of said plat S 89°43'01" W 8.64 feet; thence along the Westerly line of Lot 14 of said plat S 19°12'34" W 18.71 feet; thence S 31°11'54" W 34.07 feet; thence the following six courses along Lots 8, 7, & 6, of said plat S 89°43'00" W 38.50 feet, N 02°13'00" E 8.25 feet, S 89°43'00" W 58.25 feet, N 02°12'46" E 24.75 feet; S 89°41'51" W 58.25 feet, and S 02°11'51" W 133.43 feet; thence along the Northerly right of way of Felch Street S 87°52'21" W 33.10 feet to the Point of Beginning. Being a part of said Assessor's Plat No. 22 and containing 2.56 acres of land, more or less. Subject to easements of record.

721 N. MAIN /FLOODWAY

EXHIBIT C



FLOODWAY DESCRIPTION  
721 N. MAIN  
CITY OF ANN ARBOR

SCALE: 1"=100'

09 SEPT 2013

CITY OF ANN ARBOR

SHEET No. 1 of 2

**OWNER/OCCUPANT QUESTIONNAIRE**  
**Phase I Environmental Site Assessment**

Site Name	123 W Summit	Project #	
Contact Name	Carl Konopaska, Fleet & Facilities	Date	12/08/2025
Company	City of Ann Arbor	Phone	(734) 794-6312
Relationship to Site	Manager for 721 N Main- Parent Site	Email	ckonopaska@a2gov.org

**Instructions**

This questionnaire outlines personal knowledge of the owner and/or occupant(s) (interviewee) of the subject property. The questionnaire is to be answered to the best of the interviewee’s knowledge, and is considered a true and accurate account of that personal knowledge. The questionnaire refers to current and historical information regarding the property, and may be included within the Phase I ESA report.

Answer all questions and fill in all blanks or circle the answers as indicated. Any additional information that may not be covered in this questionnaire may be included on additional pages and attached.

Questions should be asked of the following persons:

- current owner of the property;
- any non-residential occupant of the property;
- any other occupant likely to be using, treating, generating, storing or disposing of hazardous substances or petroleum products on or from the subject property.

**GENERAL INFORMATION**

Please complete the following tables with historical owners and occupants (from current to past).

Ownership History:

<b>Owner</b>	<b>Year(s) of Ownership</b>
City of Ann Arbor	~ 80-90 years
Nothing has changed since the 4/22/24 questionnaire submitted by Matt Kulhanek to my knowledge.	

Occupant History:

<b>Name</b>	<b>Type of Business</b>	<b>Year(s) of Occupancy</b>

	<b>Question</b>	<b>Owner</b>	<b>Occupant</b>	<b>Comments</b>
1	Is the <i>property</i> currently used for an industrial use?	Yes No Unknown	Yes No Unknown	
2	Is any <i>adjoining property</i> currently used for an industrial use?	Yes No Unknown	Yes No Unknown	
3	Was the <i>property</i> previously used for an industrial use in the past?	Yes No Unknown	Yes No Unknown	
4	Was any <i>adjoining property</i> previously used for an industrial use in the past?	Yes No Unknown	Yes No Unknown	
5	Is the <i>property</i> currently used or formerly used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes No Unknown	Yes No Unknown	
6	Is any <i>adjoining property</i> currently used or formerly used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes No Unknown	Yes No Unknown	
7	Are there currently, or have there been previously, any damaged or discarded automobile or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the <i>property</i> or at the facility?	Yes No Unknown	Yes No Unknown	
8	Are there currently, or have there been previously, any industrial <i>drums</i> (typically 55 gal [208 L]) or sacks of chemicals located on the property or at the facility?	Yes No Unknown	Yes No Unknown	
9	Has <i>fill dirt</i> been brought onto the property that originated from a contaminated site or that is of an unknown origin?	Yes No Unknown	Yes No Unknown	
10	Is there currently, or have there been previously, any stained soil on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
11	Are there currently, or have there been previously, any registered or unregistered storage tanks (above or underground) located on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
12	Are there currently, or have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the <i>property</i> adjacent to any structure located on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	

	<b>Question</b>	<b>Owner</b>	<b>Occupant</b>	<b>Comments</b>
13	Are there currently, or have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	Yes No Unknown	Yes No Unknown	
14	If the <i>property</i> is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated contaminated by any government environmental/health agency?	Yes No Unknown	Yes No Unknown	
15	Do you have any knowledge of <i>environmental liens</i> or governmental notification relating to the past or recurrent violations of environmental laws with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
16	Has you been informed of the past or current existence of <i>hazardous substances</i> or petroleum <i>products</i> or environmental violations with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
17	Do you have any knowledge of any environmental site assessment of the <i>property</i> or facility that indicated the presence of <i>hazardous substances</i> or <i>petroleum products</i> on, or contamination of, the <i>property</i> or recommended further assessment of the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
18	Do you know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any <i>hazardous substance</i> or <i>petroleum products</i> involving the <i>property</i> by any owner or occupant of the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
19	Does the <i>property</i> discharge wastewater on or adjacent to the <i>property</i> other than stormwater into a sanitary sewer system?	Yes No Unknown	Yes No Unknown	
20	Have any <i>hazardous substances</i> or <i>petroleum products</i> , unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	
21	Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCB's on the <i>property</i> ?	Yes No Unknown	Yes No Unknown	

**UTILITIES**

Potable water supply source:      \_\_\_Municipal      \_\_\_On-Site Well      \_\_\_Other

Sanitary sewer service:            \_\_\_Municipal      \_\_\_On-Site Septic      \_\_\_Other

Storm sewer service:            \_\_\_Municipal Separate Storm Sewers    \_\_\_On-Site Storm Water Retention  
    \_\_\_Municipal Combined sanitary/storm sewer system      \_\_\_Other

Heat Source:                            \_\_\_Natural Gas                    \_\_\_Electric      \_\_\_Heating Oil

Name of Natural Gas Utility: \_\_\_\_\_

Name of Electric Utility: \_\_\_\_\_

Name of Oil Supplier: \_\_\_\_\_

**NON SCOPE CONSIDERATIONS****Asbestos**

Has Site had an asbestos survey?    \_\_\_Yes    \_\_\_No    *If yes, please provide a copy.*

**Radon:**

Has a radon gas survey been conducted at the Site?    \_\_\_Yes    \_\_\_No    *If yes, please provide a copy.*

**Wetlands:**

Has a wetland survey been conducted at the Site?    \_\_\_Yes    \_\_\_No    *If yes, please provide a copy.*

**ENVIRONMENTAL CONCERNS****Has the Site has any of the following?**

(Please check a box "H" for historically, "C" for currently, "U" for unknown, or "NA" for not applicable)

	H	C	U	NA	Date(s)
Inspections/Assessments					
Citations/Violations					
Spills/Releases					
Third Party Complaints					

*If yes to any of the above, please provide detailed information and previously generated reports.*

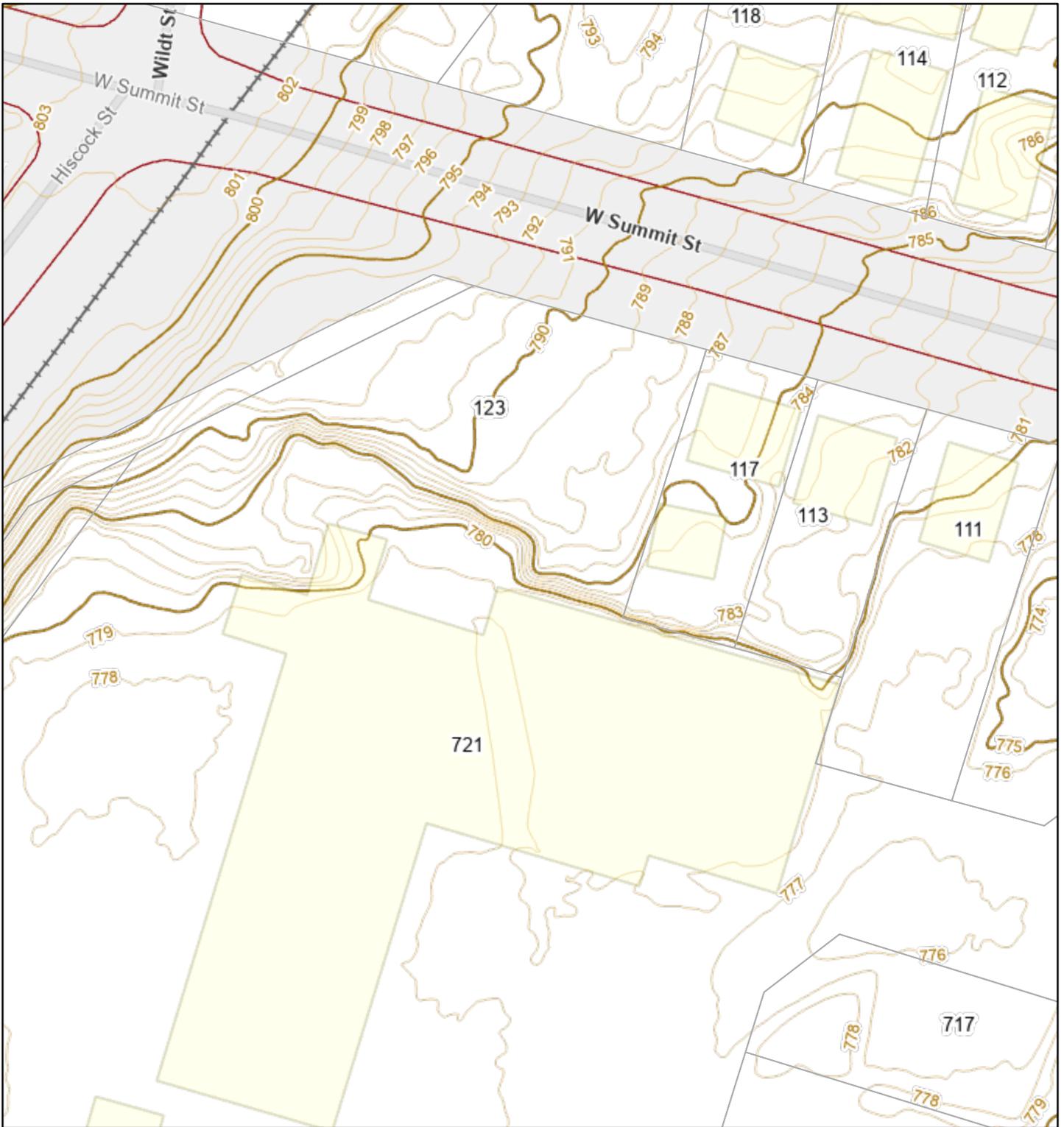
**APPENDIX C**

**Environmental Database Report**

## **APPENDIX D**

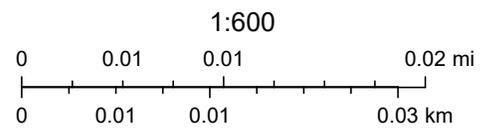
### **Local/State/Federal Documentation**

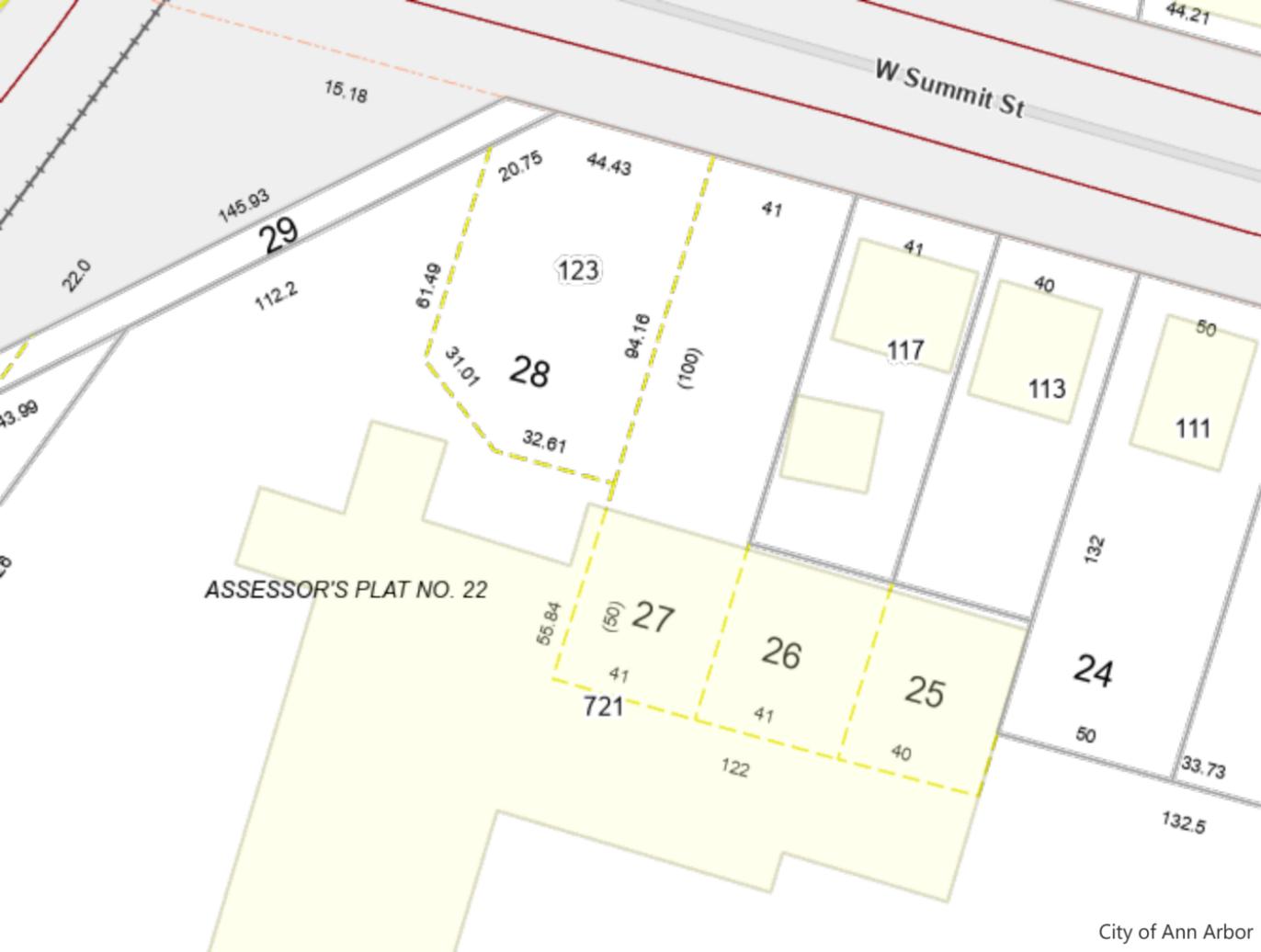
# City of Ann Arbor GIS Contour



4/3/2024, 4:55:02 PM

 Tax Parcels





ASSESSOR'S PLAT NO. 22

721 N MAIN ST Ann Arbor, MI 48104 (Property Address)

Parcel Number: 09-09-20-409-006



Item 1 of 1 1 Image / 0 Sketches

Property Owner: CITY OF ANN ARBOR

Summary Information

> Assessed Value: \$0 | Taxable Value: \$0

> Property Tax information found

Parcel is Vacant

Owner and Taxpayer Information

<b>Owner</b>	CITY OF ANN ARBOR TRANSPORTATION PO BOX 8647 Ann Arbor, MI 48107	<b>Taxpayer</b>	SEE OWNER INFORMATION
--------------	---	-----------------	-----------------------

General Information for Tax Year 2024

<b>Property Class</b>	202 COMMERCIAL-VACANT	<b>Unit</b>	09 CITY OF ANN ARBOR
<b>School District</b>	ANN ARBOR PUBLIC SCHOOLS	<b>Assessed Value</b>	\$0
<b>Map #</b>	No Data to Display	<b>Taxable Value</b>	\$0
<b>User Num Idx</b>	0	<b>State Equalized Value</b>	\$0
<b>User Alpha 1</b>	No Data to Display	<b>Date of Last Name Change</b>	12/14/2012
<b>User Alpha 3</b>	No Data to Display	<b>Notes</b>	Not Available
<b>Historical District</b>	No	<b>Census Block Group</b>	No Data to Display
<b>User Alpha 2</b>	No Data to Display	<b>Exemption</b>	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2024	0.0000 %	-
2023	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2023	\$0	\$0	\$0

Land Information

<b>Zoning Code</b>	PL	<b>Total Acres</b>	4.570
<b>Land Value</b>	\$1,094,881	<b>Land Improvements</b>	\$0
<b>Renaissance Zone</b>	No	<b>Renaissance Zone Expiration Date</b>	No Data to Display
<b>ECF Neighborhood</b>	232 North Main Commercial	<b>Mortgage Code</b>	No Data to Display
<b>Lot Dimensions/Comments</b>	No Data to Display	<b>Neighborhood Enterprise Zone</b>	No

Lot(s)	Frontage	Depth
No lots found.		
<b>Total Frontage: 0.00 ft</b>		<b>Average Depth: 0.00 ft</b>

Legal Description

LOTS 5, 22, 27, 8, 28 AND W 100 FT OF LOTS 16 & 17, ALSO W 90 FT OF LOT 15, AND SLY 50 FT OF LOTS 25 & 26, ALSO THAT PRT OF LOTS 19, 20, & 21 LYING W

By continuing to use this website you agree to the [BS&A Online Terms of Use](#). X ROM EL OF SAID LOTS 19,20, & 21, ASSESSORS PLAT NO 22

## Land Division Act Information

<b>Date of Last Split/Combine</b>	<i>No Data to Display</i>	<b>Number of Splits Left</b>	<i>Not Available</i>
<b>Date Form Filed</b>	<i>No Data to Display</i>	<b>Unallocated Div.s of Parent</b>	0
<b>Date Created</b>	01/01/0001	<b>Unallocated Div.s Transferred</b>	0
<b>Acreage of Parent</b>	0.00	<b>Rights Were Transferred</b>	No
<b>Split Number</b>	0	<b>Courtesy Split</b>	No
<b>Parent Parcel</b>	<i>No Data to Display</i>		

## Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page	Comments
No sales history found.							

**\*\*Disclaimer:** BS&A Software provides BS&A Online as a way for municipalities to display information online and is not responsible for the content or accuracy of the data herein. This data is provided for reference only and WITHOUT WARRANTY of any kind, expressed or inferred. Please contact your local municipality if you believe there are errors in the data.

Copyright © 2024 [BS&A Software, Inc.](#)



Imaging Cover Sheet

THIS RECORD WAS PREPARED FOR IMAGING ON 7/13/06

\*\*\* IF YOU ADD RECORDS TO THIS FILE PRIOR TO BEING SCANNED YOU MUST MODIFY THIS FORM IF NECESSARY.

EQUALIZER STICKER:

PARCEL ID#: 09 - 09 - 20 - 409 - 006

STREET NUMBER: 721

Confirmed \*\*\* PLACE EQUALIZER GENERATED STICKER TO RIGHT OF TOWNSHIP ONCE ADDRESS IS CONFIRMED.

Approximate

STREET NAME: N. Main St.

OWNER LAST NAME: City of Ann Arbor

TOWNSHIP: Ann Arbor City, Ann Arbor

Types of information imaged

Sewage System - Septic Case Number: \_\_\_\_\_

Well Case Number: \_\_\_\_\_

Soil Evaluation - SEV Case Number: \_\_\_\_\_

Time of Sale - TOS Case Number: \_\_\_\_\_

MISC Special Project

P2

The following information is available for this address:

E size drawing Location: \_\_\_\_\_

Complaint(s)

Other \_\_\_\_\_

THIS FILE ALSO CONTAINS INFORMATION FOR THE FOLLOWING ADDRESS(S):

\_\_\_\_\_  
\_\_\_\_\_

*Spec Proj*

STATE OF MICHIGAN



JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

ROLAND HARMES, Director

4th Floor State Office Building  
301 E. Louis Glick Hwy., Jackson, Michigan 49201

July 26, 1993

NATURAL RESOURCES  
COMMISSION  
JERRY C. BARTNIK  
LARRY DEVUYST  
PAUL EISELE  
JAMES P. HILL  
DAVID HOLLI  
JOEY M. SPANO  
JORDAN B. TATTER

Mr. Dan Cullen  
City of Ann Arbor  
100 North Fifth Avenue  
P.O. Box 8647  
Ann Arbor, Michigan 48107

Dear Mr. Cullen:

The "Gasoline Tank Supplemental Site Investigation Report For An Underground Storage Tank Release", dated June 21, 1993, for your facility at Ann Arbor City Garage, 721 North Main Street, Ann Arbor, Michigan, has been reviewed. The extent of contamination related to this release has been adequately defined to allow for the development of a corrective action plan (CAP). Please proceed with the development of the CAP. It is understood, however, that further site study may be necessary upon review of these study findings.

As indicated in Sec. 8(6) of the Leaking Underground Storage Tank Act, P.A. 478 of 1988, as amended, once you have completed all corrective actions in full at the site, the Michigan Department of Natural Resources (MDNR) may provide you with a document stating that the corrective actions have been completed. To receive this document, you must:

1. be in compliance with the Act,
2. provide the MDNR a written statement asserting all corrective actions have been completed,
3. provide sufficient documentation to show full compliance with the approved corrective action plan.

If you have any further questions, please contact Terry Hiske at 517-780-7928.

Sincerely,

*R. David Parsons, Ady*  
Gary Klepper  
District Supervisor  
Environmental Response Division

cc: Mr. Robert Blake, WCHD ✓  
Mr. Eric Helzer, TGI  
Mr. Peter Ollila, MDNR



**RECEIVED**

JUL 28 1993

ENVIRONMENTAL HEALTH

STATE OF MICHIGAN

NATURAL RESOURCES  
COMMISSION

LARRY DEVUYST  
PAUL EISELE  
JAMES P. HILL  
DAVID HOLLI  
O. STEWART MYERS  
JOEY M. SPANO  
JORDAN B. TATTER



JOHN ENGLER, Governor

DEPARTMENT OF NATURAL RESOURCES

ROLAND HARMES, Director

4th Floor State Office Building  
301 E. Louis Glick Hwy., Jackson, Michigan 49201

March 10, 1993

Mr. Dan Cullen  
City of Ann Arbor  
100 North Fifth Avenue  
P.O. Box 8647  
Ann Arbor, Michigan 48107

Dear Mr. Cullen:

Subject: Department review of Supplemental Site Investigation Work Plan for  
Ann Arbor City Garage, 721 N. Main Street, Ann Arbor, Washtenaw  
County

The Michigan Department of Natural Resources (MDNR) is in receipt of the Ann Arbor City Garage Supplemental Site Investigation Work Plan prepared by The Traverse Group, Incorporated (TGI). Due to current staffing levels and excessive workload, a detailed review of the work plan was not completed by department staff. The work plan has been provided with a general screening. Based on this review, you are hereby authorized to proceed with the proposed investigation provided the following conditions and project goals are accomplished:

1. The investigation must effectively define the vertical and horizontal extent of soils contamination and should be conducted in compliance with the Leaking Underground Storage Tank Act 478, of 1988, as amended. A list of Department guidance documents is outlined below. (If you wish to receive a copy of these guidance documents, please contact this office.)
  - Operational Memoranda #1 through #10.
  - Verification of Soils Remediation, October 25, 1990
  - Draft Hydrogeologic Study Guidance Document, November, 1990
2. Determine if groundwater has been impacted by the confirmed release. If groundwater has been impacted, complete initial hydrogeologic investigation to determine basic hydrogeological conditions at the site, including groundwater flow direction and gradient.

Mr. Dan Cullen

-2-

March 10, 1993

A report that accomplishes one of the following objectives is required to be submitted to this office no later than July 7, 1993.

1. Complete definition of soil contamination with concentrations delineated and definition of basic hydrogeologic characteristics at the site, if groundwater is determined to be impacted.
2. Closure report.
3. Corrective Action Plan.

If additional investigation is warranted, the report must include the next phase of work with a schedule of investigative activities.

Please inform this office three business days prior to any on-site activities so that Department staff may be present if schedules permit.

Please be aware that all work completed under this approval must be reasonable in nature and justifiable. The Department is not indicating, by this conditioned approval, that any costs incurred from work performed can or will be reimbursed by MUSTFA funds.

If you have any further questions please contact Terry Hiske, Project Manager, at 517-780-5000.

Sincerely,

  
Gary Klepper  
District Supervisor  
Environmental Response Division  
517-780-5000

cc: Mr. Peter Ollila, MDNR  
Mr. Eric Helzer, TGI  
Mr. Robert Blake, WCHD ✓

RECEIVED  
MAR 11 1993  
ENVIRONMENTAL HEALTH





NATURAL RESOURCES COMMISSION

MARLENE J. FLUHARTY  
GORDON E. GUYER  
O. STEWART MYERS  
RAYMOND POUPORE

JOHN ENGLER, Governor

## DEPARTMENT OF NATURAL RESOURCES

ROLAND HARMES, Director  
~~SELBERT RECTOR, Director~~

4th Floor State Office Building  
301 E. Louis Glick Hwy., Jackson, Michigan 49201

January 7, 1992

RECEIVED

JAN 09 1992

ENVIRONMENTAL HEALTH

Mr. Dan Cullen  
City of Ann Arbor  
100 North Fifth Ave.  
P.O. Box 8647  
Ann Arbor, Michigan 48107

Dear Mr. Cullen:

The work plan dated December 5, 1991, for your facility at Ann Arbor City Garage, 721 North Main Street, Ann Arbor, Michigan, appears to be adequate. Please proceed with the project as specified in the work plan. It is understood, however, that further site study may be necessary upon review of these study findings.

Some of the actions approved implicitly or explicitly in this work plan may not be eligible expenditures from the Michigan Underground Storage Tank Financial Assurance (MUSTFA) fund, such as resurfacing, building construction or canopy installation. Please contact Mr. John Connelly, Department of Management and Budget, at 1-800-4MUSTFA if you have questions regarding MUSTFA-eligible expenditures.

As indicated in Sec. 8(6) of the Leaking Underground Storage Tank Act, P.A. 478 of 1988, as amended, once you have completed all corrective actions in full at the site, the Michigan Department of Natural Resources (MDNR) may provide you with a document stating that the corrective actions have been completed. To receive this document, you must:

1. be in compliance with the Act,
2. provide the MDNR a written statement asserting all corrective actions have been completed,
3. provide sufficient documentation to show full compliance with the approved corrective action plan.

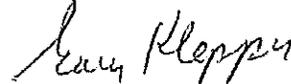
Mr. Dan Cullen

Page 2

January 7, 1992

If you have any further questions, please contact Cheryl English at 517-788-9598.

Sincerely,



Gary Klepper  
District Supervisor  
Environmental Response Division

GK/hd

cc: Mr. Robert Blake, Washtenaw County Health Dept. ✓  
Mr. John Connelly, Dept. of Management and Budget  
Ms. Cheryl English, Michigan Dept. of Natural Resources

WASHTENAW COUNTY

FREEDOM OF INFORMATION  
REQUEST

COMMUNITY RIGHT-TO-KNOW

Section 374 - Accessibility of Records

DATE OF REQUEST: 10/30/91

NAME OF FACILITY: MUNICIPAL GARAGE

ADDRESS OF FACILITY: 721 N. MAIN ST.

PERSON REQUESTING INFORMATION:

MARK VAN AUKEN  
BLACK & VEATCH

ADDRESS: 600 RENAISSANCE CENTER, SUITE 1240 DETROIT, MI 48243

PHONE: (313) 259-5300

REASON FOR REQUEST:

USE FOR CITY OF ANN ARBOR NPDES  
~~INDUSTRIAL~~ INDUSTRIAL PERMIT

DATE REQUEST FULFILLED: 10/30/91

NUMBER OF COPIES: 5

Mark R. Van Auker

EPF# 04  
#H .30  
TOTL .50

10/31/91 08:05 01 5429

COPY MADE

#453

OFFICE OF THE WASHTENAW COUNTY DRAIN COMMISSIONER  
EMERGENCY RESPONSE REPORT



Date: 10/27/91 Time: \_\_\_\_\_ Received by: A. Marcum

Reported by: Jim Soper, City of Ann Arbor

Location: 721 North Main, Ann Arbor, MI

City/Twp: Ann Arbor Drain: Allen Creek

Description of Incident: 10/29/91 - 1:00 p.m.

Mr. Soper called to report that the City of Ann Arbor had a gasoline spill of approximately 10 gallons at its garage located at 721 North Main. Soper reported that the Ann Arbor Fire Department was contacted and responded. The Fire Department spread emulsifier on the gasoline and flushed it into Allen Creek.

Jeff Krcmarik of the Huron River Pollution Abatement team contacted the Ann Arbor Fire Department to request that they use sorbant pads or booms to handle future spills.

Personnel Responding: N/A

Total Staff Hours: \_\_\_\_\_ at \$28.00/hour Total Labor Cost: \_\_\_\_\_

Equipment (vehicle): \_\_\_\_\_ at \$ 7.50/hour Total Equipment Cost: \_\_\_\_\_

Materials Used: \_\_\_\_\_ booms at \$ 42.00/boom = \_\_\_\_\_

\_\_\_\_\_ pads at \$ 3.00 pad = \_\_\_\_\_

Total Materials Cost: \_\_\_\_\_

Materials Disposed of by: \_\_\_\_\_

Other Expenses Incurred: \_\_\_\_\_  
(mileage, etc.)

Total Costs: 0

cc: Dan Harsh, Emergency Management  
Jeff Krcmarik, Huron River Pollution Abatement



Reply to:

STATE OF MICHIGAN



JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

August 13, 1990

4th Floor  
State Office Building  
301 E. Louis Glick Hwy.  
Jackson, MI 49201

NATURAL RESOURCES COMMISSION  
THOMAS J. ANDERSON  
MARLENE J. FLUHARTY  
GORDON E. GUYER  
KERRY KAMMER  
ELLWOOD A. MATTSON  
O. STEWART MYERS  
RAYMOND POUPORE

Mr. Dan Cullen  
Risk Manager  
City of Ann Arbor  
P.O. Box 8647  
Ann Arbor, MI 48107

Dear Mr. Cullen:

Subject: Site Investigation Work Plan  
City of Ann Arbor Garage, 721 N. Main Street, Ann Arbor

The site investigation work plan dated April 5, 1990 for your facility at the above referenced location appears to be adequate. Please proceed with the project as specified in the work plan. It is understood, however, that further site study may be necessary upon review of these study findings.

Some of the actions approved implicitly or explicitly in this work plan may not be eligible expenditures from the Michigan Underground Storage Tank Financial Assurance (MUSTIFA) fund, such as resurfacing, building construction or canopy installation. Please contact Mr. John Connelly, Department of Management and Budget, at 1-800-4MUSTIFA if you have questions regarding MUSTIFA-eligible expenditures.

As indicated in Sec. 8(6) of the Leaking Underground Storage Tank Act, P.A. 478 of 1988, as amended, once you have completed all corrective actions in full at the site, the Michigan Department of Natural Resources (MDNR) may provide you with a document stating that the corrective actions have been completed. To receive this document, you must:

1. be in compliance with the Act,
2. provide the MDNR a written statement asserting all corrective actions have been completed,
3. provide sufficient documentation to show full compliance with the approved corrective action plan.

Enclosed is an outline of the documentation required to show full compliance with the approved corrective action plan.

If you have any questions or concerns, please contact Betty Michalski at 517-788-9598.

Sincerely,

Gary Klepper  
District Supervisor  
Environmental Response Division

cc: Mr. Leon Moore, WCHD  
Ms. Betty Michalski, MDNR

**RECEIVED**

AUG 14 1990

ENVIRONMENTAL HEALTH

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON  
MARLENE J. FLUHARTY  
GORDON E. GUYER  
KERRY KAMMER  
ELLWOOD A. MATTSON  
O STEWART MYERS  
RAYMOND POUPORE

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

December 18, 1989

Mr. Dan Cullen  
City of Ann Arbor  
P.O. Box 8647  
Ann Arbor, Michigan 48107

Dear Mr. Cullen:

SUBJECT: Underground Storage Tank System Release  
721 N. Main Street, Ann Arbor, Michigan

On December 12, 1989, the Michigan State Police Fire Marshall Division received notification that there was a confirmed release at the above referenced location.

The Leaking Underground Storage Tank Act, P.A. 478 1988, requires that initial contamination abatement measures be taken. As specified in Section 7(1), these measures include: 1) removing as much of the product from the underground storage tank system as is necessary to prevent further release, 2) preventing further migration of contamination of above ground or exposed below ground releases, 3) monitoring and/or mitigating any fire or safety hazards, 4) remediating contaminated soil, and providing this office reasonable notice and opportunity to monitor these activities, 5) investigating for the presence of free product and begin free product removal as soon as possible, and 6) sampling soil and groundwater to evaluate the level of contamination.

As required by Section 7(2), a report summarizing the initial abatement steps you have taken must be submitted to this office by January 4, 1990. If the report indicates contamination remains at this site, follow-up reports and a site investigation work plan for determining the extent of contamination must be submitted, as specified in Sections 7(4), 7(5) and 7(6), by January 29, 1990.

A copy of Act 478, which defines the responsibilities of an owner/operator of a leaking underground storage tank system, is enclosed. Please contact me if you have any questions or need additional information.

Sincerely,

Betty Michalski  
Environmental Response Division  
Jackson District  
(517)788-9598

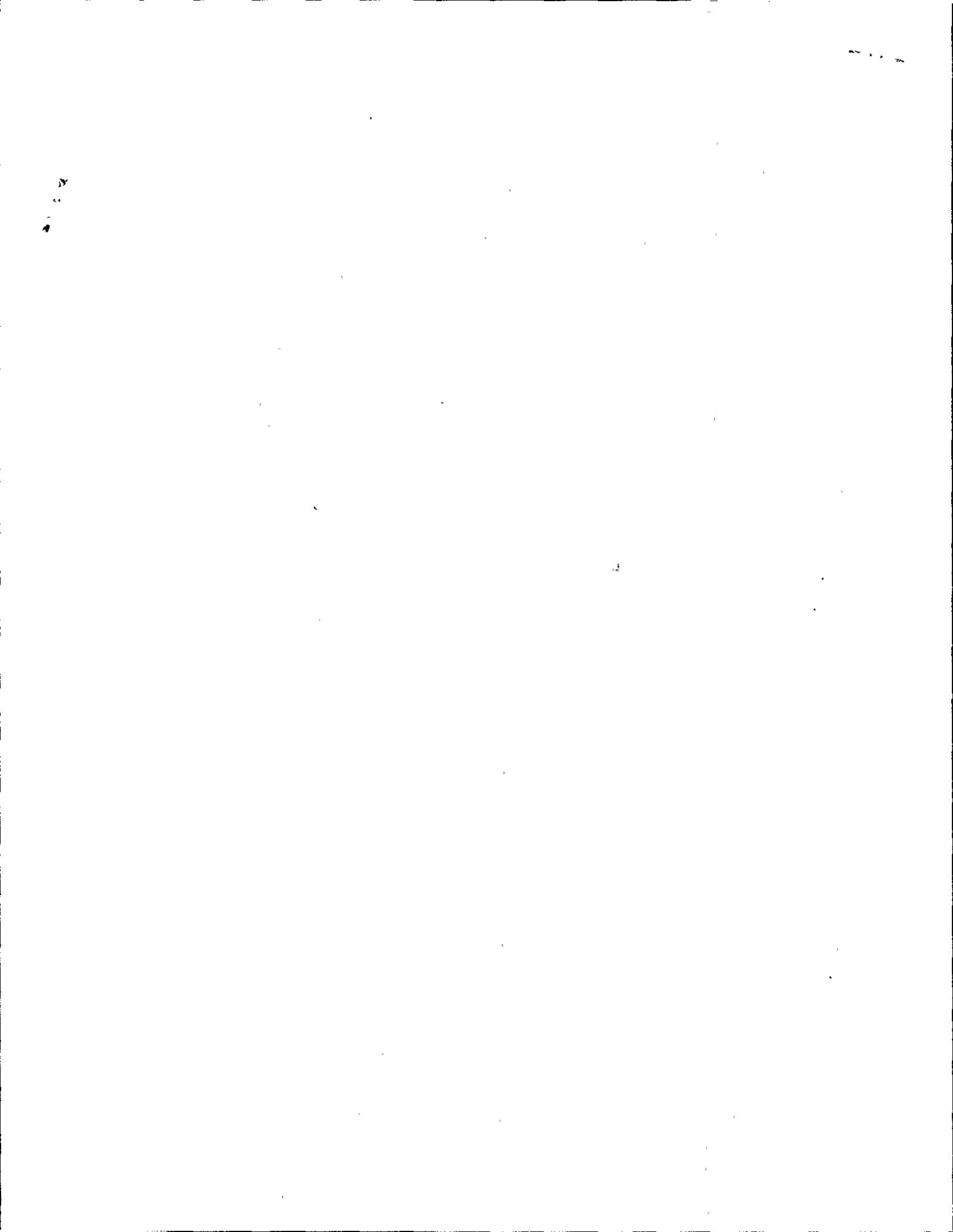
cc: Leon Moore, WCHD  
Gary Klepper, MDNR

**RECEIVED**

DEC 20 1963

ENVIRONMENTAL HEALTH





MEMORANDUM

TO: Sabah Yousif, City of Ann Arbor Engineering Department  
FROM: Barry Johnson, Public Health Engineer  
DATE: October 3, 1983  
RE: Ann Arbor Municipal Garage, 721 N. Main Street, Ann Arbor

On September 14, 21, 28 and 29, 1983, personnel from the Washtenaw County Health Department and Drain Commissioner's Office investigated indoor plumbing fixtures at the Ann Arbor Municipal garage to determine possible connections into the Allen Creek storm water system. Four County personnel were utilized each day. Transportation, site preparation, and dye testing involved 18 hours per staff member or 72 man-hours. Fifteen fixtures were dye-tested. Personnel were stationed down in the Allen Drain and at the sanitary sewer manhole on Main Street to determine the course of the tracing dye.

Our results indicate that, with the exception of the black water plumbing, the entire facility is discharging into Allen Creek Drain. The original 1957 building plans indicate that much of the plumbing should have been connected to sanitary sewer. A breakdown is as follows:

<u>Fixture</u>	<u>Sewage discharging to</u>
Oil separator	Storm
Long floor drain in repair area	Storm
Wash area floor drains	Storm
Upstairs drinking fountain in office area	Storm
Womens' restroom	Sanitary
Mens' restroom (including utility sink)	Sanitary
Hand sink in wash area	Sanitary
Floor drains in rear repair area	Storm
Drinking fountain on first floor	Sanitary
Floor drain in boiler pit	Storm
Office floor drain	Storm

Fortunately, only two connections in the storm sewer appear to be active (see enclosed diagram) and need to be re-routed to the sanitary sewer. These were a 6" clay tile coming from the oil separator and a 12" clay tile draining the side and rear of the facility. Two other lines, a 4" and 12", were inactive and could be bulkheaded.

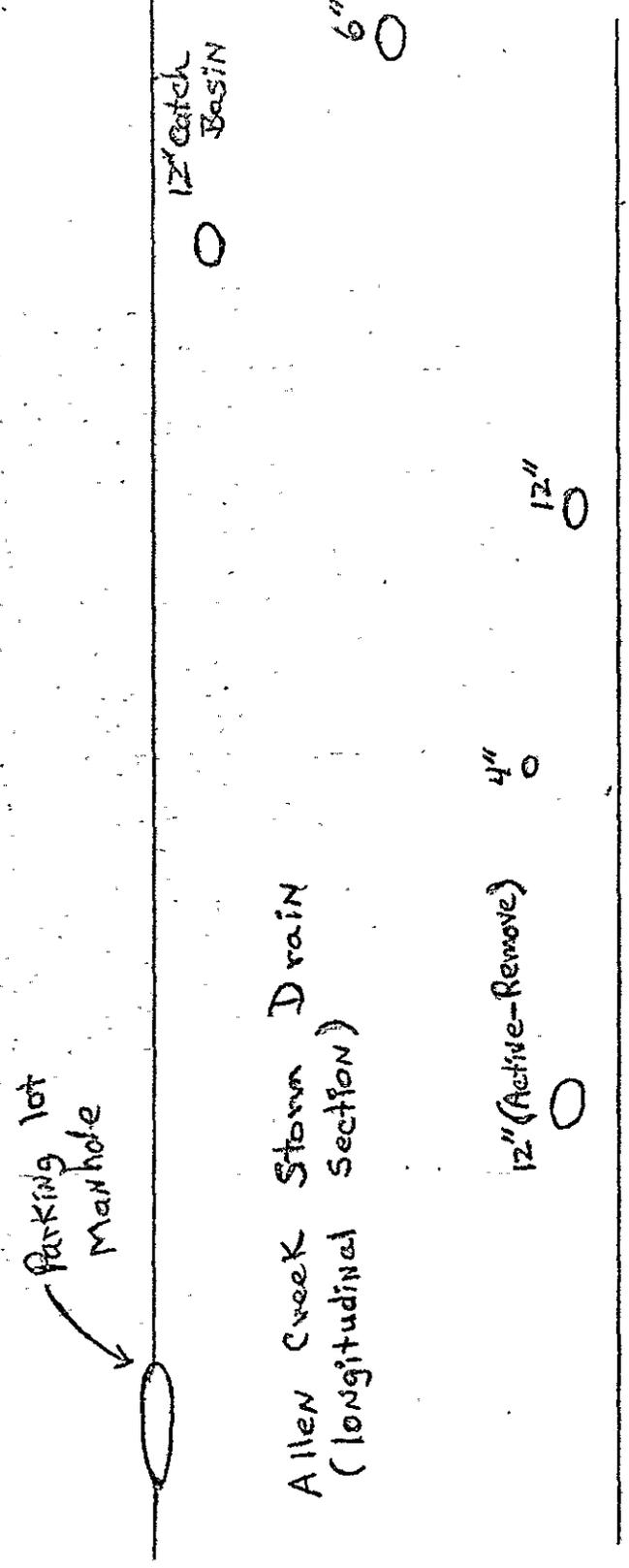
October 3, 1983

Page 2

Separately, on September 14, 1983, County personnel observed City crews washing out the street sweepers over a catch basin in the City yard leading to Allen Creek. This material is detrimental to the water quality of Allen Drain. This practice must be discontinued.

BJ/wps

Ann Arbor Municipal Garage - Connections to the Allen Creek Drain  
721 N. Main St



Allen Creek Storm Drain  
(longitudinal section)

12" (Active-Remove)

4"

12"

12' Catch Basin

6" (Active-Remove)

→ Downstream



ENVIRONMENTAL HEALTH  
PUBLIC HEALTH ENGINEER  
Barry Johnson, P.E., M.S.  
(313) 994-2492

April 6, 1983

Mr. Jack Donaldson, Director  
City of Ann Arbor  
Building Department  
100 N. Fifth Avenue  
Ann Arbor, MI 48107

RE: City of Ann Arbor  
Municipal Garage  
N. Main Street  
Ann Arbor, MI

Dear Mr. Donaldson:

On February 23, 1983, this department determined that the City of Ann Arbor's municipal garage, located on N. Main Street had their oil skimmer directly connected to the Allen Drain. The potential exists for oil and other contaminants to be directly discharged into the storm drain and Huron River system.

As discussed previously, you indicated your department should be responsible for having these connections removed from the Allen Creek drain. I would appreciate being kept informed of your progress.

If any further information is required, or any assistance needed, please feel free to contact me.

Sincerely,



Douglas R. Spencer  
Water Quality Coordinator

cc: James Murray, Washtenaw County Drain Commissioner  
Sabah Yousif, City of Ann Arbor

# FOIA Request - 2543 - Pratt

Available Assessing Department records (record cards/assessments), Building Department records (plans, permits, violations) and Fire Department records (specific to environmental concerns such as spills, leaks, dumping, haz materials storage) for the property at 123 W. Summit, Ann Arbor, MI

## MEMORANDUM

**DATE:** April 13, 2023

**TO:** Jeff Kahan  
Planning Division

**FROM:** John Madrigal, Project Engineer  
Public Services Area – Engineering Review

**RE:** 721 North Main Street  
File No. LD23-0003  
Review # 1

We have reviewed the above-mentioned land division petition and have the following comments:

1. City GIS records indicate a 2" water service lead and a 6" sanitary lead connects to its respective main in Summit Street and will cross over the New Parcel. Utility service leads serving a parcel must connect to the public utility fronting that parcel and may not cross over or in front of a parcel belonging to another. Should any existing utility service lead not meet these requirements now or as a result of the land transfer, it will be necessary to bring each service lead into compliance as a condition of approval; either provide an easement to the City or relocate the leads.

In addition, we have the following comments regarding the ability to develop the parcels included in this proposed land division:

1. Proposed Parcels New Parcel (0.33 ac) will have access to a public right-of-way, West Summit Street.
2. There are City utilities available to service Proposed Parcel New Parcel (0.33 ac), including a 6" water main, an 8" sanitary sewer, and an 18" storm sewer in West Summit Street. Connection to sewers may require detailed design by an engineer. No representation is made as to ability to connect.
3. Detailed provisions for how proposed development of this parcel will address stormwater must be presented to the Systems Planning Unit for review and approval prior to construction.
4. Fire coverage appears to be met for the New Parcel.
5. Fire coverage is not met for the Remainder Parcel.
6. These parcels are identified on "The Treeline Allen Creek Urban Trail Master Plan". Any future development shall coordinate with the City and The Treeline Conservancy.

AP:jm (S:\Engineering\Private Development\Comments\721 N. Main Land Division\721 N. Main LD1.docx)

**C:** Private Development Team (via Email)  
Traffic Team (via Email)  
Michael Reddmann, Fire Inspector (via Email)



# DEMOLITION PERMIT CITY OF ANN ARBOR

BUILDING DEPARTMENT  
301 E Huron St, P.O. Box 8647  
Ann Arbor, MI 48104  
Phone: (734) 794-6267  
Fax: (734) 994-8460

PLEASE VISIT THE CITY WEB SITE TO SCHEDULE YOUR INSPECTION - [WWW.A2GOV.ORG/permits](http://WWW.A2GOV.ORG/permits)

Permit Number: **DEMO13-0021**

Construction Type:

Use Group:

Work Type: **COMMERCIAL**

Demolition of 2 building owned by City of Ann Arbor

Stipulations:

LOCATION	OWNER
721 N MAIN ST 09-09-20-409-006	CITY OF ANN ARBOR PO BOX 8647 Ann Arbor, MI 48107
<p>Approved plans must be retained on job and this card kept posted until final inspection has been made. Permits and inspection notices must be posted at a single location on site (electrical panel, etc.). Where a Certificate of Occupancy is required, such building shall not be occupied until final inspection has been approved. Minimum 24 hour notice required for inspection. You must request inspection.</p>	CONTRACTOR
	E.T. Mackenzie & Co. 6400 Jackson Road Ann Arbor, MI 48103 (734) 761-5050

Permit Item	Account Number	Fee Basis	Amount
DEMOLITION-ALL STRUCTURES	0026-033-3330-0000-431	0	420.00

Ralph Welton

Date Issued: **08/06/2013**  
Date Expires: **02/06/2014**

**Fee Total: \$420.00**

**Amount Paid: \$420.00**

Building Official

**BALANCE DUE: \$0.00**

I agree this permit is only for the work described and does not grant permission for additional work which requires separate permits. I understand that this permit will become invalid, and null and void if work is not started within 180 days, or if work is suspended or abandoned for a period of 180 days any time after work has commenced, and that I am responsible for assuring all required inspections are requested in conformance with the applicable code.

I hereby certify that the proposed work is authorized by the owner, and that I am authorized by the owner to make this application as authorized agent. I agree to conform to all applicable laws of the State of Michigan and local jurisdiction. All information on the permit application is accurate.

Payment of permit fee constitutes acceptance of above terms.



owner \$420

# City of Ann Arbor

## PLANNING & DEVELOPMENT SERVICES — CONSTRUCTION SERVICES

Mailing: 301 East Huron Street | P.O. Box 8647 | Ann Arbor, Michigan 48107-8647  
 Location: Larcom City Hall | First Floor | 301 E. Huron St. | Ann Arbor, MI 48104-6120  
 p. 734.794.6263 | f. 734.994.8460 | building@a2gov.org

Date Submitted: 7-30-13

PERMIT #: BLDG DEM013-0021

### BUILDING PERMIT APPLICATION — COMMERCIAL

Permission is requested by the Contractor and by the Owner to perform work as described below and on the following pages, and as shown on the attached plans.

#### YOU MUST FILL IN ALL FIELDS

PROPERTY	Address <i>Project Address: 721 N. Main</i> Zoning District <i>PL</i>	
	Actual Addresses of Buildings: <i>719 &amp; 723 N. Main</i>	
	Suite or Unit # <i>former Vehicle Storage and Salt</i>	
PROPERTY OWNER	Name <i>City of Ann Arbor</i> Ph <i>734-794-6263</i>	
	Address <i>301 E. Huron</i> City <i>Ann Arbor</i> Zip <i>48107</i> Fax <i>734-994-8460</i>	
CONTRACTOR	Last Name/Business <i>E.T. Mackenzie Company</i> Ph <i>517-622-3884</i>	
	Address <i>4248 W. Saginaw</i> City <i>Grand Ledge</i> Zip <i>48837</i> Fax <i>517-622-3799</i>	
	License No. <i>2104166126</i> Exp <i>5-31-2014</i> Email <i>Project Manager (Phil Emmons)</i>	
ARCHITECT/ ENGINEER	Name _____ Ph _____	
	Address _____ City _____ Zip _____ Fax _____	
	License No. _____ Exp _____ Email _____	
<b>VALUE OF WORK</b>		
Includes material and labor for scope of permit, excluding mechanical, electrical and plumbing. Mechanical, electrical and plumbing to obtain separate permits. <span style="float: right;">\$ <u>31,618<sup>00</sup></u></span>		
<b>HISTORIC DISTRICT</b>		
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No District _____		
<b>FLOOD PLAIN</b>		
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No DNR-E Permit # _____ Approval _____		
<b>RENTAL PROPERTY</b>		
Is this building residential rental property? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No No. of Units: _____		

You **MUST** submit a minimum of **TWO (2)** copies of plans.  
**FOR ADDITIONAL REQUIREMENTS, REFER TO THE ATTACHED CHECKLIST**

PL

**BUILDING INFORMATION**

**TYPE OF WORK (Select one from each column)**

<input type="checkbox"/> Build/Finish	<input type="checkbox"/> New	<input type="checkbox"/> Building
<input type="checkbox"/> Addition(s) to	<input type="checkbox"/> Existing	<input type="checkbox"/> Tenant Space
<input type="checkbox"/> Alteration(s) to	<input type="checkbox"/> Portion(s) of existing	<input type="checkbox"/> Deck
<input type="checkbox"/> Change of Occupancy	<input type="checkbox"/> Shell	<input type="checkbox"/> Porch
<input checked="" type="checkbox"/> Demolition of	<input type="checkbox"/> Foundation only	<input type="checkbox"/> Fence
<input type="checkbox"/> Move	<input type="checkbox"/> Other _____	<input type="checkbox"/> Door
<input type="checkbox"/> Repair(s) to	_____	<input type="checkbox"/> Garage
<input type="checkbox"/> Replacement of	_____	<input type="checkbox"/> Roof
<input type="checkbox"/> Other	_____	<input type="checkbox"/> Sign
_____	_____	<input type="checkbox"/> Windows-Number _____
		<input type="checkbox"/> Siding

DESCRIPTION OF WORK: Demolition of two building owned by  
City of Ann Arbor.

COMMENTS TO REVIEWER: Any project questions can be addressed  
to Jerry Hancock with City of A.A.

**USE-OCCUPANCY CLASSIFICATION**

<input type="checkbox"/> Vacant	<input type="checkbox"/> H-5 Hazardous production materials
<input type="checkbox"/> A-1 Assembly, theaters	<input type="checkbox"/> I-1 Institutional, supervised residential care
<input type="checkbox"/> A-2 Assembly, nightclubs, bars, restaurants	<input type="checkbox"/> I-2 Institutional, incapacitated, hospital, nursing home
<input type="checkbox"/> A-3 Assembly, rec centers, religious buildings	<input type="checkbox"/> I-3 Institutional, restrained, prisons
<input type="checkbox"/> A-4 Assembly, indoor sporting facilities	<input type="checkbox"/> M Mercantile
<input type="checkbox"/> A-5 Grandstands, stadiums, outdoor sporting events	<input type="checkbox"/> R-1 Residential, hotels, motels, boarding houses
<input type="checkbox"/> B Business	<input type="checkbox"/> R-2 Residential, multiple-family, fraternity, sorority
<input type="checkbox"/> E Educational	<input type="checkbox"/> R-3 Residential, 1 and 2 family and townhouses
<input type="checkbox"/> F-1 Factory and industrial, moderate hazard	<input type="checkbox"/> R-4 Assisted living (6-16 occ.)
<input type="checkbox"/> F-2 Factory and industrial, low hazard	<input type="checkbox"/> S-1 Storage, moderate hazard
<input type="checkbox"/> H-1 High hazard, detonation hazards	<input checked="" type="checkbox"/> S-2 Storage, low hazard
<input type="checkbox"/> H-2 High hazard, deflagration hazards	<input type="checkbox"/> U Utility, miscellaneous, garages, fences, sheds
<input type="checkbox"/> H-3 High hazard, physical hazards	<input type="checkbox"/> Mixed Uses
<input type="checkbox"/> H-4 High hazard, health hazards	

**SUPPRESSION SYSTEM**

<input type="checkbox"/> NFPA-13	<input type="checkbox"/> Limited Area	<input type="checkbox"/> Partial
<input type="checkbox"/> NFPA-13R	<input type="checkbox"/> Range Hood	<input type="checkbox"/> Complete
<input type="checkbox"/> NFPA-13D	<input checked="" type="checkbox"/> None	

**ALARM SYSTEM**

<input type="checkbox"/> Manual	<input type="checkbox"/> Automatic Detection	<input checked="" type="checkbox"/> None	<input type="checkbox"/> Partial	<input type="checkbox"/> Complete
---------------------------------	--	--	----------------------------------	-----------------------------------

**BUILDING USE OPTIONS**

<input type="checkbox"/> Single Use			
<input type="checkbox"/> Mixed Use - Separation Option:	<input type="checkbox"/> Non-separated uses	<input type="checkbox"/> Separated uses	<input checked="" type="checkbox"/> Separate buildings

**PLANNING AND ZONING**

Existing Use (specify type): Storage

Proposed Use (specify type): Vacant Land

Construction:  Interior Only  Exterior/Façade  Addition or New Construction (Site Plan required)

For additions or new construction, Site Plan File #: \_\_\_\_\_

You must contact Planning at 734-794-6265 or [planning@a2gov.org](mailto:planning@a2gov.org) prior to submission of permit applications for site planned projects.

**PURSUANT TO PUBLIC ACT 135 OF 1989  
ALL BUILDING DIVISION PERMIT APPLICANTS MUST FILL OUT THIS SECTION**

1. Workers Compensation Carrier: Amerisure Insurance & Citizens / Hanover Ins. Co.  
 2. Tax ID# 38-2405622 3. MESC # / Unemployment Agency # \_\_\_\_\_ 4. Homeowner - N/A

**CONTRACTOR**, acting through the undersigned, agrees to comply with all terms and conditions of permit as it may be issued.

Signature: Phillips C. Emmons, Jr. Date: 6-24-13  
 Print Name of Signature and Title: Phillips C. Emmons, Jr. - Project Manager / Superintendent  
 Company Name: E.T. MacKenzie Company

I, **OWNER**, or person acting as owner's agent, agree to require Contractor to comply with all terms and conditions of permit as it may be issued, agree to the terms and conditions of permit as it may be issued, and agree to pay all fees and costs that may come due as a result of any activity under the permit.

\*Signature: \_\_\_\_\_  
 Print Name of Signature: \_\_\_\_\_

\*If Owner's signature is by Contractor or its representative, Contractor warrants and represents that it is an authorized agent for Owner for purposes of obtaining this permit. (NOTE: Contractor is *NOT* allowed to act as agent for Owner if Contractor is in non-compliance status on other permits.)

**NOTICE: A copy of this permit will be provided to the City Assessor's Office when the requested building permit is issued. A staff member of the Assessor's Office may visit the property for assessment purposes in connection with this building permit. By signing this application you acknowledge, personally and on behalf of the property owner, receipt of this notice.**

**PAYMENT**

Please provide payment information to process the application using **the payment cover sheet**. Any application received without payment information included cannot be processed.

**OFFICE USE ONLY**

**HISTORIC DISTRICT NOTES**

Notes: \_\_\_\_\_  
 Approval: \_\_\_\_\_ Date: \_\_\_\_\_

**PLANNING AND ZONING NOTES**

Notes: \_\_\_\_\_  
 Approval: Alley 7/31/13 Date: \_\_\_\_\_

**BUILDING NOTES**

Notes: \_\_\_\_\_  
 Approval: [Signature] Date: 8/4/13

**FEES**

Building Permit **\$100 +** \_\_\_\_\_ Grading Permit \_\_\_\_\_  
 Plan Review \_\_\_\_\_ Historic District Permit \$25 Other N/A  
 Zoning Review \$20 \$50 N/A **TOTAL** \_\_\_\_\_  
 Site Compliance \$150 N/A

# INVITATION TO BID

ITB # 4286

## DEMOLITION OF VEHICLE AND SALT STORAGE BUILDINGS AT 721 N. MAIN



Due Date: Tuesday, June 4, 2013 by 10:00 AM

Issued By:  
Procurement Unit  
City of Ann Arbor  
Procurement Unit  
301 E. Huron Street  
Ann Arbor, MI 48104

BID FORM | Section 1 – Schedule of Prices

Demolition Permit and Soil Erosion and Sedimentation Control (SESC) Permit – The contractor will be responsible for obtaining these permits from the City of Ann Arbor Planning and Development Services Unit.

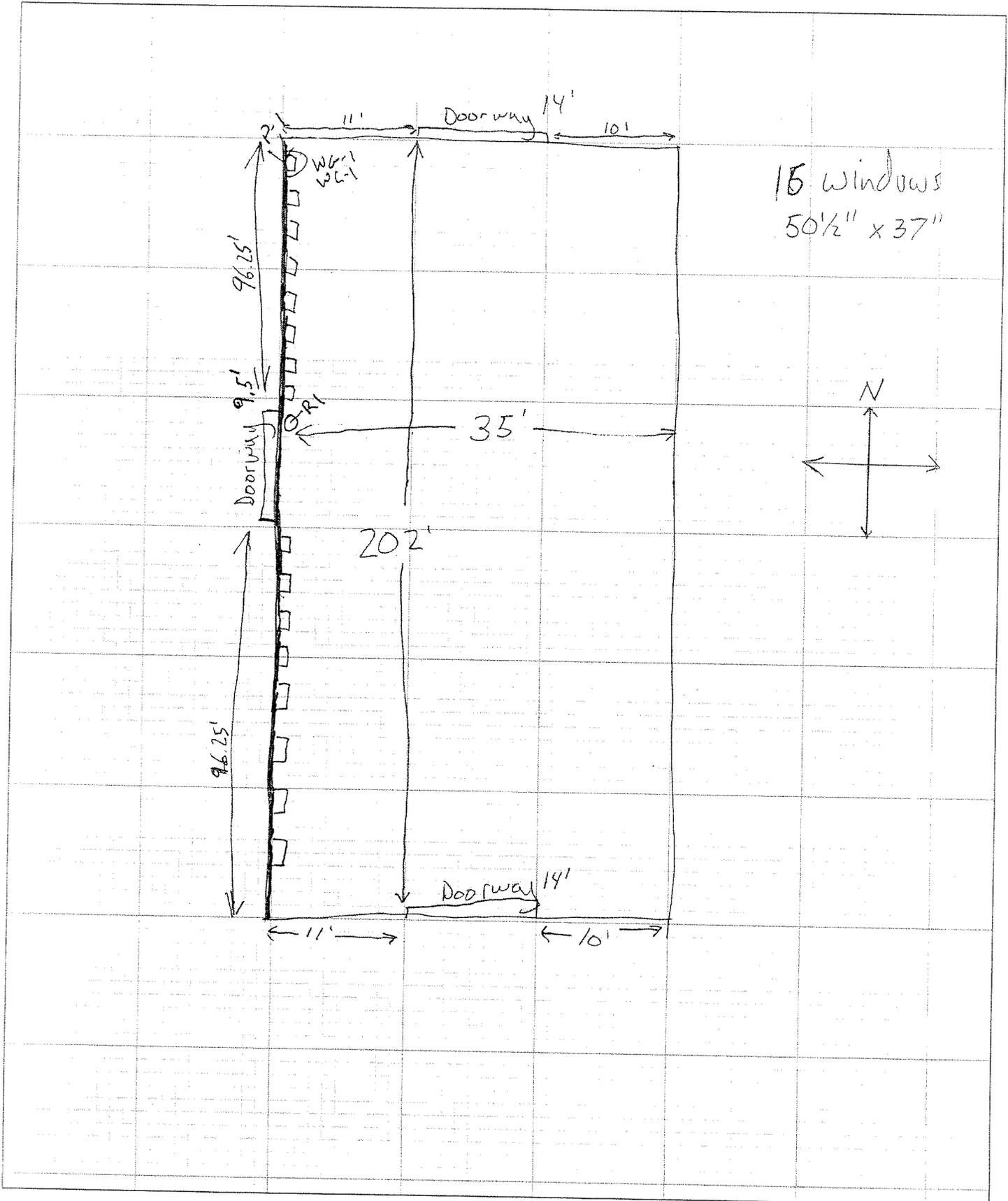
SESC and Traffic Control Installation – The contractor will be responsible for all controls necessary.

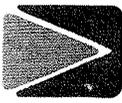
Electrical disconnection – The contractor will be responsible for having an Electrician disconnect the electrical systems.

Demolition and disposal of Buildings – The contractor will remove the salt storage and vehicle storage buildings, their foundations, all bollards, trees and appurtenances' surrounding the buildings, the asphalt surface between them, and removal of two stormwater inlets and stormwater piping that is connected to the sanitary system (see Attachment A), and all related work.

Site Restoration – All disturbed areas will be graded out, topsoil applied, and seeded and mulched to establish vegetation.

<u>Item</u>	<u>Description</u>	<u>Total Price</u>
1	Project Management, Permits & Site Prep	\$ 4,769.00
2	Salt Building Demolition	\$ 8,834.00
3	Vehicle Storage Building Demolition	\$ 9,948.00
<input type="checkbox"/>		
4	Demolition of Storm Inlets and Removal of Storm Line	\$ 2,010.00
5	Site Restoration	\$ 6,057.00
TOTAL BASE BID		\$ 31,618.00



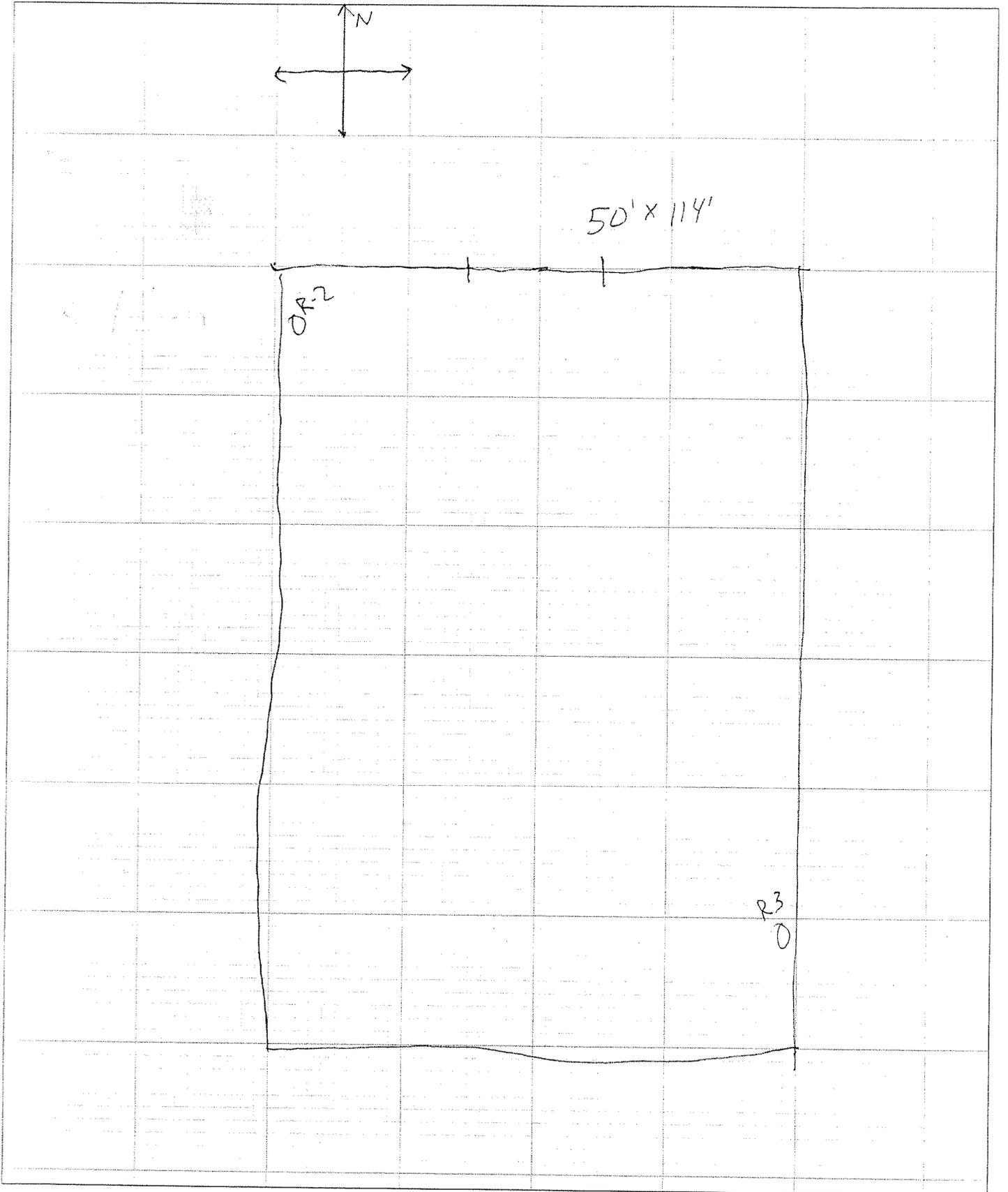


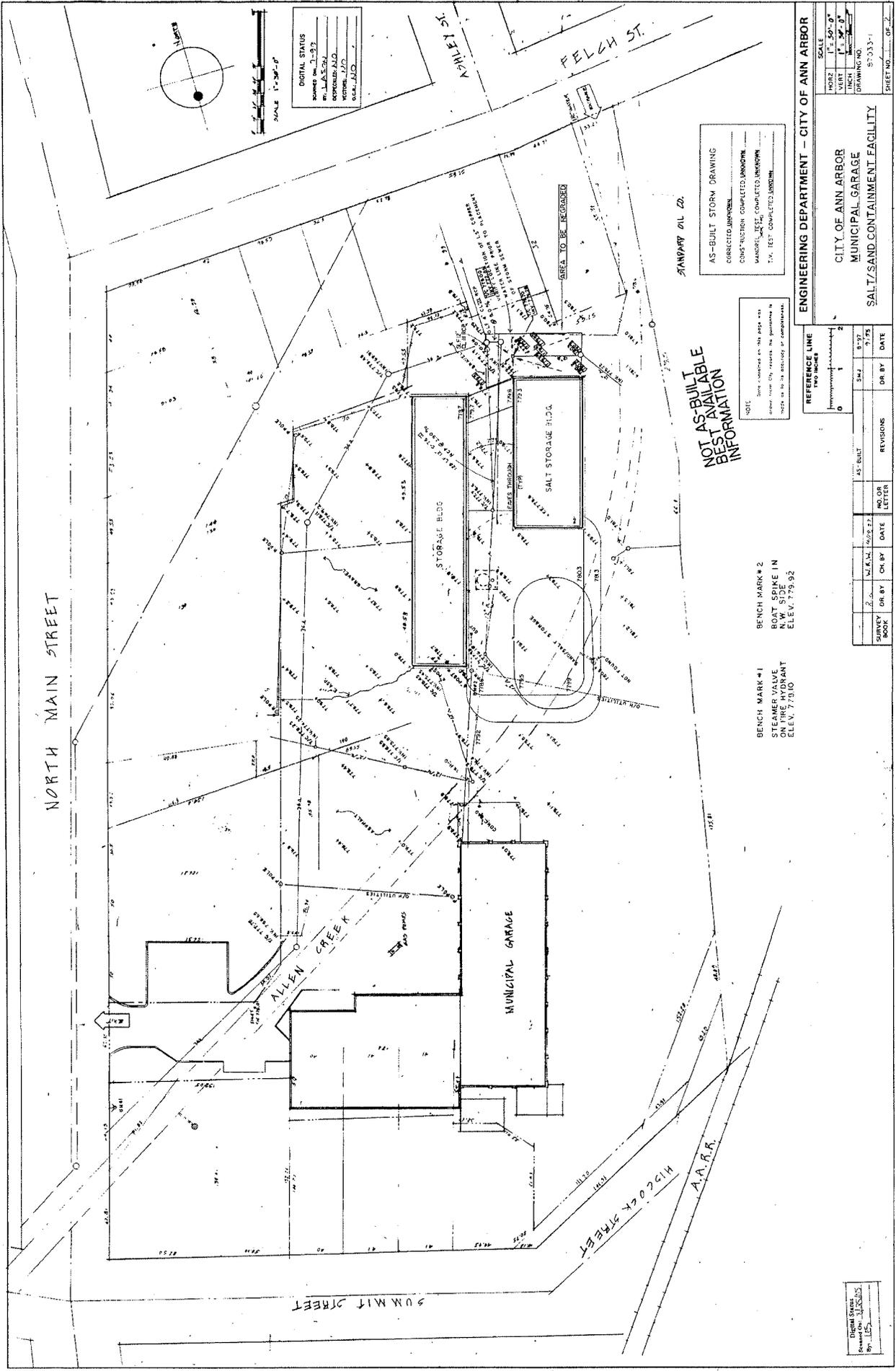
# TriMedia

Environmental & Engineering

By Shane Wheeler Date 4/22/13 Subject Salt Storage Site Sketch Sheet \_\_\_\_\_ of \_\_\_\_\_

Ckd By \_\_\_\_\_ Date \_\_\_\_\_ File No. \_\_\_\_\_





DIGITAL STATUS  
 DRAWING NO. 1-23-07  
 BY J.A.S./J.C.  
 APPROVED J.C.  
 DATE 1/23/07  
 SCALE 1"=30'-0"

AS-BUILT STORM DRAWING  
 CORRECTED APPROXIMATELY  
 CONSTRUCTION COMPLETED APPROXIMATELY  
 MANUSCRIPT SET COMPLETED APPROXIMATELY  
 TYPING COMPLETED APPROXIMATELY

NOTE  
 Some portions on this page was  
 drawn from City records the portions in  
 boldface are for the accuracy of construction.

NOT AS-BUILT  
 BEST AVAILABLE  
 INFORMATION

BENCH MARK #1  
 STEAMER VALVE  
 ON FIRE HYDRANT  
 ELEV. 779.10

BENCH MARK #2  
 BOAT SPIKE IN  
 N.W. SIDE  
 ELEV. 779.92

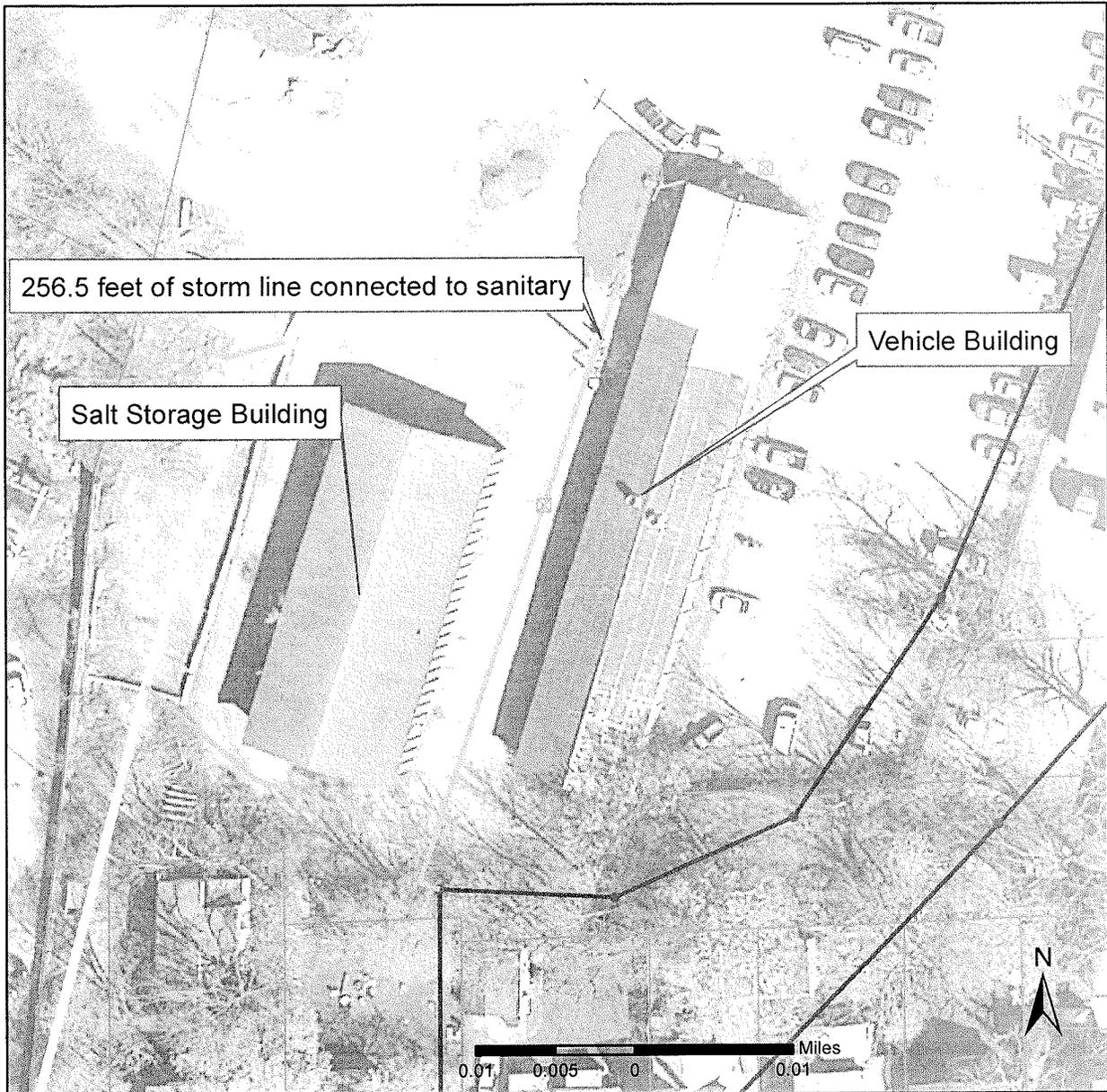
REFERENCE LINE  
 TWO INCHES

NO.	DATE	BY	REVISIONS
1	7/25	J.A.S.	AS BUILT
2	8/29/22	J.C.	NO. OR LETTER

ENGINEERING DEPARTMENT - CITY OF ANN ARBOR  
 CITY OF ANN ARBOR  
 MUNICIPAL GARAGE  
 SALT/SAND CONTAINMENT FACILITY  
 SCALE  
 HORIZ. 1" = 30'-0"  
 VERT. 1" = 3'-0"  
 SHEET NO. 1 OF 2

Digital Status  
 DRAWING NO. 1-23-07  
 BY J.A.S./J.C.  
 APPROVED J.C.  
 DATE 1/23/07

# Vehicle and Salt Storage Buildings at 721 N. Main St.



## Legend

- Storm Main
- Non-City Owned Storm Main
- ☒ Catchbasin
- Sanitary Sewer

Copyright 2013 City of Ann Arbor, Michigan

No part of this product shall be reproduced or transmitted in any form or by any means, electronic or mechanical, for any purposes, without prior written permission from the City of Ann Arbor.

This map complies with National Map Accuracy Standards for mapping at 1 inch = 100 feet. The City of Ann Arbor and its mapping contractors assume no legal responsibility for the content and/or inappropriate use of information represented on this map.

Permits  
[Apply / New Permit](#)  
[Search Permit](#)

Projects  
[Apply for New Project](#)  
[Search Projects](#)

Contractor  
[Search Contractors](#)

Properties  
[Search Property](#)

Inspections  
[Schedule](#)

License  
[Search Licenses](#)

Contact  
[Contact us](#)

### Permit Search

Search By:    SEARCH

[Click here for search examples](#)

<b>Permits</b>		
Permit Number	Address	Contractor Name
DEMO13-0021	721 N MAIN ST	E.T. Mackenzie & Co.
ELEC10-0892	721 N MAIN ST	Smith, Keith E
ELEC11-0577	721 N MAIN ST	PHOENIX ENVIRONMENTAL INC
KILL13-0035	721 N MAIN ST	
PB013104	721 N MAIN ST	R W Mercer
PB013223	721 N MAIN ST	R W Mercer
PE010230	721 N MAIN ST	Retro-Tech Systems Inc
PE020111	721 N MAIN ST	Lawson Electric Co
PE030309	721 N MAIN ST	Douglas R Wilbur Elect Inc
PM020221	721 N MAIN ST	RW Mercer Company
PM030371	721 N MAIN ST	Bronson Heating & Cooling Inc
PM030458	721 N MAIN ST	Bronson Heating & Cooling Inc
ROW11-0506	721 N MAIN ST	PHOENIX ENVIRONMENTAL INC
ROW20-1269	721 N MAIN ST	Parsons
SOIL13-0148	721 N MAIN ST	E.T. Mackenzie & Co.

[PRINT](#) [EXPORT TO EXCEL](#)



## Plan Number: LIC14-0002

[Plan Details \(\)](#) | [Tab Elements \(\)](#) | [Main Menu \(\)](#)

		^ (.multi-collapse)
<b>Type:</b>	License Agreement - Monitoring Well	<b>Status:</b> Approved
		<b>Project Name:</b>
<b>Applied Date:</b>	03/03/2014	<b>Expiration Date:</b> 08/01/2024
<b>District:</b>	Ward 1	<b>Assigned To:</b> Heatley, Alison
<b>Completion Date:</b>	07/22/2022	
<b>Description:</b>	BP Products Monitoring Wells (Former Amoco Bulk Facility)	

[Summary](#) | [Locations](#) | [Fees](#) | [Attachments](#) | [Contacts](#) | [Sub-Records](#) | [More Info](#)

[Locations \(\)](#) | [Next Tab \(\)](#) | [Plan Details \(\)](#) | [Main Menu \(\)](#)

### Locations

#### Sort

Main ▾

**Type: Location**

US  
721 N Main St , Ann Arbor,  
MI, 48104

**Main Address**

**Parcel Number**  
09-09-20-409-006

**Main Parcel**



# City of Ann Arbor

## Customer Service

301 E. Huron | P.O. Box 8647 | Ann Arbor, Michigan 48107-8647  
 p. 734.794.6320 | f. 734.994.8991 | customerservice@a2gov.org

PERMIT No. ROW \_\_\_\_\_ - \_\_\_\_\_

### RIGHT-OF-WAY APPLICATION

Permission is requested by the Contractor to perform work as described below and as shown on the attached plans, within the City of Ann Arbor's right-of-way. A copy of the permit shall be at the work site at all times.

ADDRESS OF PROPOSED WORK/ACTIVITY: 721 NORTH MAIN STREET (PIN 09-09-20-409-006)

PROPOSED DATES OF WORK/ACTIVITY: START 10/1/2020 COMPLETION 10/1/2027

TYPE OF WORK & ROW IMPACTS (Check and complete ALL that apply):

- Underground Utility:**  Water (size \_\_\_")  Sewer  Gas  Electric  Telecomm  Other \_\_\_\_\_
- Service Lead:** [ Under Street and/or  Behind Curb] ; [ Trenched and/or  Bore]; Total Length in Feet \_\_\_\_\_
- or
- Utility Main Line:** [ Under Street and/or  Behind Curb] ; [ Trenched and/or  Bore]; Total Length in Feet \_\_\_\_\_
- Lane Closure Needed (Impacting Flow of Traffic) – (Application to be filed with Project Mgmt)**
- Drive Approach:**  New or  Remove/Replace;  Residential or  Commercial; No. of Approaches \_\_\_\_\_
- NOTE: Width: 10'-24' (Single- or Two-Family); 24'-30' (All Other). Turning Radius: 5'-15'. Curb Cut Max: 60'
- Sidewalk or  Bikepath:** Area \_\_\_\_\_ S.F. (Remove/Replace Sidewalk or Bikepath)
- Utility Poles:**  Remove/Replace (Same Location)  Remove  New; Total No. of Poles Impacted \_\_\_\_\_
- Cable (Aerial or Through Existing Conduit):** Length in Feet \_\_\_\_\_
- Soil Borings:** No. of Borings \_\_\_\_\_  **Monitoring Wells:** No. of Well Heads A
- Earth Retention System** Total Length in Feet \_\_\_\_\_  **Tree Impacts – Forestry Permit Required**

DESCRIPTION OF WORK: TO USE/OCCUPY THE EXISTING MONITORING WELLS LOCATED ON CITY-OWNED REAL ESTATE (MI-90059025) FOR ROUTINE MONITORING ACTIVITIES ASSOCIATED WITH FORMER AMOCO BULK FACILITY (220 FELCH STREET) - SEE MAP.

Contractor, acting through the undersigned, agrees to comply with all terms and conditions of permit as it may be issued and agree to pay all fees and costs that may come due as a result of any activity under the permit.

SIGNATURE: x [Signature]

Print Name of Signature and Title: KELLY YAKES PARSONS  
GEOLOGIST

Company Name : PARSONS

Address: 10 SOUTH RIVERSIDE PLAZA, SUITE 400  
CHICAGO, IL 60606

Phone: 312-579-5782

Email: KELLY.YAKES@PARSONS.COM

#### OFFICE USE ONLY:

Date of Application Submittal: _____		
Contractor's Insurance Expiration Date: _____		
<input type="checkbox"/> 3 Sets of Plans Attached		
<input type="checkbox"/> Special Permit Conditions Attached		
<input type="checkbox"/> Street-cut Moratorium List Checked?		
Reviewing Dept. / Div.	Approved By	Date
Project Management		
Planning & Development		
Other:		
FEE: \$		

Updated: 11/10/15 CF

\*Please see back for legal terms, conditions and requirements

**RIGHT-OF-WAY PERMIT  
TERMS, CONDITIONS AND REQUIREMENTS**

1. The Contractor shall perform all its work and activities in accordance with the **City of Ann Arbor Public Services Standard Specifications (STANDARD SPECIFICATIONS)**. Contractors shall acquaint themselves with the STANDARD SPECIFICATIONS prior to undertaking any work or activities within the right-of-way.
2. The Contractor shall **schedule the inspection** of each work activity with the applicable department(s) / service area(s), a minimum of 72 hours or as otherwise required prior to the time of inspection.
3. The Contractor shall submit its request for the times/dates of any **Lane Closure Permits** to the Public Services – Project Management Unit for review and approval a minimum of 72 hours prior to the work being performed. Project Management must approve all lane closures in advance of the work being completed.
4. The Contractor shall submit its valid, current **certificate of insurance** to Customer Service for review and approval prior to permit approval. Contractor's insurance shall comply with City Code Chapter 47, and shall remain in effect throughout the work. City Code is available at City Clerk's Office or at <http://www.a2gov.org>.
5. The Contractor shall satisfy the requirements of the State of Michigan **MISS-Dig Law** as set forth in MCL 460.701 through MCL 460.718, Public Act 248.
6. The Contractor shall place a **hard surface over all disturbed pavement areas** at the end of each day, in accordance with STANDARD SPECIFICATIONS, or as otherwise directed by the Public Services Area.
7. The Contractor shall install and maintain all **detours, lane closures, signing, traffic control devices, etc.**, in conformance with the Michigan Manual of Uniform Traffic Control Devices, and in accordance with City Code Chapter 47, Section 4:23, and as directed by the Public Services Area.
8. The Contractor shall take, provide and maintain all **necessary precautions to prevent injury or damage** to persons and property, from operations covered by this permit, and shall satisfy the requirements of the State of Michigan Department of Labor Construction Safety Standards, particularly Parts 1, 9 and 21.
9. The Contractor shall submit **three sets of construction plans** with any permit application for proposed utility main-line construction.
10. When required by the City, the Contractor shall **submit detailed construction plans** of all proposed work.
11. The Contractor shall submit a permit application for **emergency utility work** no later than the business day following the start of the work. Project Management shall be notified at 734 794-6410 prior to beginning any work.
12. The Contractor shall coordinate all **tree (and/or root) trimming and/or removal** within the right-of-way with the City Field Operations at 734 794-6350, as required by City Code Section 3:12. A Forestry Permit may be required.
13. The **Contractor and Owner shall indemnify and reimburse the City** for any and all restorative costs resulting from the Contractor's work not complying with the terms and conditions of the permit as it may be issued.
14. The Contractor shall obtain an **MDOT permit** for all proposed work/activity on **State Trunklines**, prior to and in addition to, obtaining City of Ann Arbor Right-Of-Way and Lane Closure permits.
15. The Contractor shall maintain a **copy of all City and State required permits at the work site**.

# DUE CARE PLAN

721 NORTH MAIN STREET  
ANN ARBOR, MICHIGAN



August 29, 2013



# **DUE CARE PLAN**

**721 NORTH MAIN STREET  
ANN ARBOR, MICHIGAN**

Prepared for:

City of Ann Arbor  
301 E. Huron  
P.O. Box 8647  
Ann Arbor, Michigan 48107-8647

Prepared by:

Tetra Tech  
710 Avis Drive  
Ann Arbor, Michigan 48108

**August 29, 2013**

## TABLE OF CONTENTS

<b>EXECUTIVE SUMMARY .....</b>	<b>iii</b>
<b>1.0 INTRODUCTION.....</b>	<b>1</b>
<b>2.0 DETAILED CHARACTERISTICS OF PROPERTY USE.....</b>	<b>3</b>
2.1 Physical Setting.....	3
2.2 Property Use .....	3
<b>3.0 HAZARDOUS SUBSTANCE INFORMATION .....</b>	<b>5</b>
<b>4.0 PLAN FOR RESPONSE ACTIVITIES .....</b>	<b>6</b>
<b>5.0 EVALUATION AND DEMONSTRATION OF COMPLIANCE WITH DUE CARE OBLIGATIONS .....</b>	<b>7</b>
5.1 Prevent Exacerbation of Existing Impacts.....	7
5.2 Prevent Unacceptable Human Exposure and Mitigate Fire and Explosion Hazards to Allow for the Intended Use of the Facility in a Manner that Protects the Public Health and Safety .....	8
5.2.1 Migration and Exposure Pathway Analyses .....	8
5.2.1.1 Soil Migration Pathway Analysis .....	9
5.2.1.2 Groundwater Migration Pathway Analysis .....	9
5.2.1.3 Potential Exposure to Human Receptors .....	9
5.2.2 Response Activities to Prevent Exposure .....	10
5.3 Take Reasonable Precautions Against the Reasonably Foreseeable Acts or Omissions of a Third Party and the Consequences that Could Result from those Acts or Omissions. ....	10
5.4 Provide Notifications to MDEQ and Others.....	10
5.4.1 Discarded or Abandoned Containers.....	10
5.4.2 Potential for Migration of Impacts Off-site.....	10
5.4.3 Fire or Explosion Hazard.....	10
5.4.4 Notification to Contractors, Utility Workers and Easement Holders For Future Redevelopment Area.....	10
5.4.5 Health and Safety Plans.....	11
5.5 Provide Site Entry .....	11
5.6 Site Land Use.....	11
5.7 Acceptable Cleanup Criteria .....	11
<b>6.0 REFERENCES.....</b>	<b>12</b>

## **FIGURES**

- Figure 1 Site Location
- Figure 2 Site Improvements
- Figure 3 Site Impacts Prior To Remediation and Redevelopment
- Figure 4 Post Remediation and Redevelopment Map

## **APPENDICES**

- Appendix A Michigan Natural Resource Trust Fund Grant Application, Dated April 1, 2013
- Appendix B Phase I Environmental Site Assessment, 721 North Main Street, Ann Arbor, Michigan 48104
- Appendix C Phase II Environmental Site Assessment, Former DPW Yard, 721 North Main Street, Ann Arbor, Michigan
- Appendix D Hazard Mitigation Grant Program Model Deed Restriction

## **EXECUTIVE SUMMARY**

On behalf of The City of Ann Arbor, Tetra Tech has prepared this Due Care Plan for the former City of Ann Arbor maintenance yard located at 721 North Main Street in Ann Arbor, Michigan. Improvements to this site are the first part of the Allen Creek Greenway. This Due Care Plan will meet the following requirements of Section 20107a (Section 7a) of the Michigan Department of Environmental Quality (MDEQ) Part 201, of the Natural Resources and Environmental Protection Act, 1994 Public Act 451, as amended (Part 201):

- Undertake measures as necessary to prevent exacerbation of existing impacts;
- Exercise due care by undertaking response activity necessary to mitigate unacceptable exposure to hazardous substances; mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the facility in a manner that protects the public health and safety;
- Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that foreseeably could result from those acts or omissions;
- Provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the facility, including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility;
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility;
- Not impede the effectiveness or integrity of any land use or resource use restriction employed at the facility in connection with response activities; and
- The owner's or operator's obligations shall be based upon the current numeric cleanup criteria under section 20120a(1).

Response activities implemented include the following:

- Installation and maintenance of a geosynthetic clay layer below the stormwater wetland;
- Installation and maintenance of a security fence around the existing building to prevent public access; and
- Filing of a deed restriction to prevent the use of groundwater for drinking water or irrigation purposes.

## 1.0 INTRODUCTION

On behalf of The City of Ann Arbor, Tetra Tech has prepared this Due Care Plan for the site located at 721 North Main Street, Ann Arbor, Michigan (**Figure 1**) to meet the requirements of Section 20107a (Section 7a) of the Michigan Department of Environmental Quality (MDEQ) Part 201 of the Natural Resources and Environmental Protection Act, 1994 Public Act 451, as amended (Part 201). Specifically, owners and operators of a “facility” as defined by Part 201 are required to take due care measures to ensure that existing soil and groundwater impacts on a property do not cause unacceptable risks to the public health and safety and to prevent exacerbation of existing impacts. This document is in accordance with Part 201 changes rendered June 28, 2013 and includes the following sections:

- Detailed Characteristics of Property Use;
- Hazardous Substance Information;
- Plan for Response Activities; and
- Evaluation and Demonstration of Compliance with Due Care Obligations.

The City of Ann Arbor is pursuing a grant from the Michigan Natural Resource Trust Fund (MNRTF). If awarded, this grant and other funding sources will be used for the publically accessible area of the proposed 721 N Main Street project which includes site remediation, trails, stormwater and environmental education. Redevelopment of the site is essential to the City’s vision for creating greenway linkages while improving stormwater quality. A copy of the MNRTF grant application is included as **Appendix A**. An approved Due Care Plan is a necessary component of the MNRTF application process, therefore, sections 2 through 5 of this Due Care Plan are written as if the site remediation and the concept design described in the MNRTF application have been completed. A rendering of the concept design is included as **Figure 2**.

Three buildings were located onsite during the Phase I Environmental Site Assessment (ESA) and Phase II ESA (**Appendix B** and **C**). The two buildings located in the floodway and identified as ‘Wooden Barn (salt storage)’ and ‘Garbage Truck Barn’ on **Figure 3** were demolished with funding from the Federal Emergency Management Agency (FEMA) between August 19 and 29, 2013. Acceptance of the FEMA grant imposes restrictions on the floodway portion of the site for use as open space, which is consistent with the City of Ann Arbor’s intentions for the site. In accordance with the deed restriction, no new structures or improvements can be erected within the floodway with the following exceptions:

- A public facility that is open on all sides and functionally related to a designated open space or recreational use;
- A public rest room; or
- A structure that is compatible with open space and conserves the natural function of the floodplain, as described in the model deed restriction (**Appendix D**).

The third building located onsite is the former City Maintenance Garage located on the northern end of the property. This former maintenance garage will not be accessible to the public by installation of an 8 foot tall security fence around the building.

Both a Phase I Environmental Site Assessment (ESA) (**Appendix B**) and a Phase II ESA (**Appendix C**) were completed at the site to determine existing hazards. The information and data collected from these two reports were used to develop this Due Care Plan.

Review of the Phase II ESA indicates that impacts above applicable criteria were noted in soils from 0 to 2 feet and in a few isolated areas related to a buried ash layer at approximately 4 feet below ground surface (bgs). Detections of polynuclear aromatic hydrocarbons (PNAs) were detected at concentrations exceeding applicable criteria in soil samples collected and analyzed from the buried ash.

As described in the MNRTF application, site remediation will require removal of the upper two feet of soil. A limited excavation to approximately 4-6 feet bgs is necessary in two locations (TTL-3 and TTL-8 on **Figure 3**) where elevated PNAs were detected. Impacted soils will be characterized and disposed of at a licensed Type II landfill. Verification of soil remediation samples will be collected to ensure impacts are removed.

After completing excavation activities a geosynthetic clay layer will be installed in the central stormwater area over the Allen Creek Drain. This geosynthetic clay layer will create a retention area for stormwater management. Approximately four inches of topsoil will be placed on the geosynthetic clay layer prior to planting native wetland species to provide a natural filter for the stormwater.

Outside of the stormwater wetland area, clean fill will be added to the excavation areas and brought back to grade. A depiction of the property after remediation and redevelopment are completed is included as **Figure 4**. The remaining site impacts that require a Due Care Plan are also identified in **Figure 4**. Although soil remediation in the elevated PNA areas is expected to remove the source of impacts to groundwater in these locations, the groundwater impacts remain in this Due Care Plan.

## **2.0 DETAILED CHARACTERISTICS OF PROPERTY USE**

The site is located in the City of Ann Arbor, Washtenaw County, Michigan (**Figure 1**). Approximately 4.0 acres of the 5.1 acre site will be accessible to the public as a recreational space (**Figure 2**). The following sections describe the physical setting and property use.

### **2.1 Physical Setting**

The topography at the site is generally flat; gently sloping northeast, toward the Huron River. West of the site, the topography is sloping to the east, where the Huron River bends and changes from a southerly to an easterly flow direction. The site is approximately 2,000 feet south of the Huron River and is partially bound by a 20-foot high Ann Arbor Railroad embankment to the west and a 20-foot high slope to the north at W. Summit Street. The interior of the site is largely flat, with a 2 foot drop in elevation between Felch Street on the south to N. Main Street on the northeast.

Allen Creek traverses northeast through the site to the Huron River. The creek was re-routed through storm sewers underground, sometime between 1925 and 1931 as described in the Phase I ESA dated October 18, 2012. The site sits primarily on the floodway and flood fringe of the Huron River.

The subsurface soil of the site is well characterized and is comprised primarily of road-base or other sand fill in the uppermost 4 to 9 feet bgs, underlain by silt, sand or sand and gravel. In borings near Allen Creek, a peat layer was encountered approximately 6 to 9 feet bgs. Perched groundwater was encountered at the site at depths ranging from 6 to 16 feet bgs.

### **2.2 Property Use**

The site is zoned as Public Land. Surrounding properties are located in residentially and commercially zoned areas. A paved entrance drive on the north side of the property along Summit Street provides vehicle access for parking. A bike/walking path are accessible from the north, east and south with a loop around the stormwater wetland. Interpretive signs, resting areas, lawn and prairie provide additional benefits to the public. Native plantings will create habitat for wildlife not present at the site prior to redevelopment. Inclusion of this greenway enhances pedestrian and bicycle connections between the downtown, west side neighborhoods, riverside parks and the Border-To-Border Trail along the Huron River.

Allen Creek flows under the stormwater wetland area in the floodway. The redevelopment of the site considered this flow and included components to improve stormwater management by

creating a surface water retention area. The native plantings provide soil stability and a filtering mechanism for stormwater prior to discharging to the Huron River.

A segment of the property located west of the existing building and along the western property boundary is outside of the floodplain and available for future use (**Figure 2**). Future development in this area will remain consistent with the residential scale and character of the neighborhood and surrounding zoning districts.

### 3.0 HAZARDOUS SUBSTANCE INFORMATION

In February 2013, TTL and Associates completed a Phase II ESA including advancement of fourteen soil borings (TTL-1 through TTL-14) and the installation of five temporary monitoring wells at the site. Soil and groundwater samples were collected and compared to MDEQ *Attachment 1 Residential and Non-Residential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 Risk-Based Screening Levels*, dated September 28, 2012 for residential criteria comparison. The soil and groundwater impacts, prior to redevelopment are included on **Figure 3**. Following remediation, the remaining soil impacts (as depicted on **Figure 4**) remain onsite:

- Vinyl chloride is detected at a concentration exceeding the residential drinking water protection (RDWP) criteria in soil sample TTL-10 (6-8' bgs);
- Chloride is detected at concentrations exceeding the residential direct contact (RDC) criteria from 6-8' bgs at two locations (TTL-8 and TTL-10); and
- Lead is detected at a concentration exceeding the RDC criteria in soil sample TTL-8 (6-8' bgs).

Although the soil removal is expected to remove the source of impacts to the groundwater, the groundwater sampling results prior to remediation are included here as a conservative approach to ensuring the protection of public health and the environment. Groundwater sample results indicate the following (**Figure 4**):

- Several PNAs are detected at concentrations exceeding residential drinking water (RDW), groundwater to surface water interface (GSI) and residential groundwater contact (RGC) from TTL-8 and the duplicate (DUP-A) sample collected from TTL-8;
- Lead is detected at a concentration exceeding the RDW criteria in TTL-1 and TTL-3; and
- Chloride is detected at a concentration exceeding RDW and GSI criteria in TTL-6 and TTL-8.

#### **4.0 PLAN FOR RESPONSE ACTIVITIES**

The City of Ann Arbor has implemented response activities prior to public access. These response activities include the installation of a geosynthetic clay layer to prevent access to the impacted soil below. This clay layer will serve as a barrier to the impacts as well as providing a retention area for stormwater management. The existing building has been secured with an 8 foot fence for authorized access only. A deed restriction has been filed to prevent the use of groundwater onsite for drinking water or irrigation purposes.

The City of Ann Arbor will implement the following plan for response activities to protect the site and its users in accordance with Due Care Obligations:

- Inform all contractors, utility workers or city personnel that may come in contact with subsurface soils or groundwater for work that includes: dewatering, excavation, surface grading, soil boring advancement, well installation, removal of existing material, and below grade utility installation or maintenance;
- Require a water management plan from contractors if dewatering is necessary;
- Require a health and safety plan from contractors that addresses the potential health hazards and environmental concerns if handling soils greater than 2 feet bgs;
- Implement the response activities that are detailed in Section 5.1 and 5.2.2 of this Due Care Plan;
- Update the Due Care Plan when site use changes; additional subsurface data is collected or additional remediation activities are implemented;
- Notify MDEQ and others as described in Section 5.4 of this Due Care Plan.

## **5.0 EVALUATION AND DEMONSTRATION OF COMPLIANCE WITH DUE CARE OBLIGATIONS**

Due Care Obligations require that a person who owns or operates a property and who has knowledge the property is a facility must comply with the following:

- Undertake measures as necessary to prevent exacerbation of existing impacts;
- Exercise due care by undertaking response activity necessary to mitigate unacceptable exposure to hazardous substances; mitigate fire and explosion hazards due to hazardous substances, and allow for the intended use of the facility in a manner that protects the public health and safety;
- Take reasonable precautions against the reasonably foreseeable acts or omissions of a third party and the consequences that foreseeably could result from those acts or omissions;
- Provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the facility, including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility;
- Comply with any land use or resource use restrictions established or relied on in connection with the response activities at the facility;
- Not impede the effectiveness or integrity of any land use or resource use restriction employed at the facility in connection with response activities; and
- The owner's or operator's obligations shall be based upon the current numeric cleanup criteria under section 20120a(1).

The following sections present the information necessary to demonstrate compliance with Due Care Obligations.

### **5.1 Prevent Exacerbation of Existing Impacts**

Any future contractors or utility workers will prevent exacerbation of existing impacts. If subsurface work is required in the future redevelopment area or below two feet across the publically accessible area, the following will be required:

- An assessment of whether 40 hour Hazardous Waste Operations and Emergency Response training is required of the site workers;
- Health and safety plan that addresses soil and groundwater impacts;

- If dewatering is necessary, groundwater will be containerized and characterized prior to disposal; and
- If excavation is required, soils will be stockpiled and characterized prior to disposal and will not be relocated offsite without consulting Part 201 regulations (Section 20120c) regarding removal or relocation of soil; and
- Required workers engaged in subsurface work to have training in accordance with 29 CFR 1910.120 as summarized in the table below:

Task/Job	Required Training Hours	Required Field Days
Hazardous Substance Removal <ul style="list-style-type: none"> <li>• general site workers</li> <li>• equipment operators</li> <li>• general laborers</li> <li>• supervisory personnel</li> </ul>	40 off-site initial and 8 refresher every year	3 - under direct supervision
Specific/ Limited Tasks <ul style="list-style-type: none"> <li>• groundwater samplers</li> <li>• surveyors</li> </ul> All Regular Tasks in a delineated Hazardous Area (determined that chemical levels are below permissible and published exposure limits)	24 off-site initial and 8 refresher every year	1 – under direct supervision

**5.2 Prevent Unacceptable Human Exposure and Mitigate Fire and Explosion Hazards to Allow for the Intended Use of the Facility in a Manner that Protects the Public Health and Safety**

Migration and exposure pathways have been evaluated and response actions have been developed to prevent unacceptable human exposure to impacts at the site.

**5.2.1 Migration and Exposure Pathway Analyses**

The following sections evaluate potential migration pathways associated with impacted and potentially impacted media.

### **5.2.1.1 Soil Migration Pathway Analysis**

The potential soil migration pathways include RDWP for vinyl chloride and RDC for lead and chloride. The area where these impacts were detected is 6 to 8 feet bgs and below the geosynthetic clay layer. Utilities are not located within the stormwater wetland area and will not expose utility workers to direct contact risks.

### **5.2.1.2 Groundwater Migration Pathway Analysis**

The potential groundwater migration pathways include RDW, GSI and RGC for numerous PNAs and chloride at two documented locations below the stormwater wetland area. These impacts are located below the geosynthetic clay layer. There are also two locations on the western property boundary where lead was detected in excess of RDW.

A groundwater deed restriction is filed with the Washtenaw County Register of Deeds to prohibit the use of groundwater at this site for drinking and irrigation purposes. Additionally, Washtenaw County has a well permit ordinance that requires a permit application to install a well.

Utility workers may come into contact with groundwater within manholes at the property or excavations to expose piping. If subsurface work is required, utility workers must be provided a health and safety plan that mitigates their exposure and determines personal protective equipment required to work at the site.

If subsurface work is required in the future redevelopment area or below two feet across the publically accessible area, the following will be required:

- An assessment of whether 40 hour Hazardous Waste Operations and Emergency Response training is required of the site workers;
- Health and safety plan that addresses soil and groundwater impacts;
- If dewatering is necessary, groundwater will be containerized and characterized prior to disposal; and
- If excavation is required, soils will be stockpiled and characterized prior to disposal and will not be relocated offsite without consulting Part 201 regulations (Section 20120c) regarding removal or relocation of soil.

### **5.2.1.3 Potential Exposure to Human Receptors**

There are no potential exposures to the general public for use of the property as described.

### **5.2.2 Response Activities to Prevent Exposure**

Response activities to prevent exposure to the general public include:

- Maintain the security fence located around the existing building to prevent unauthorized access;
- Maintain the geosynthetic clay layer to prevent exposure to subsurface impacts.

### **5.3 Take Reasonable Precautions Against the Reasonably Foreseeable Acts or Omissions of a Third Party and the Consequences that Could Result from those Acts or Omissions**

Due Care Obligations require a person, who owns or operates a property and who has knowledge that the site is a facility, to take reasonable precautions against reasonably foreseeable acts or omissions of a third party and the consequences that could result from those acts or omissions. Utility workers will require notification of subsurface conditions and will need to address these conditions in a health and safety plan prior to beginning work.

### **5.4 Provide Notifications to MDEQ and Others**

The Due Care Rules require notification to the MDEQ and others within 45 days of having knowledge of the conditions described in the following sections.

#### **5.4.1 Discarded or Abandoned Containers**

If discarded or abandoned containers are discovered at the site, MDEQ Form EQP4476 will be submitted by the City of Ann Arbor.

#### **5.4.2 Potential for Migration of Impacts Off-site**

Concentrations of PNAs, lead and chloride in the groundwater were detected at the site (**Appendix C**). If migration of impacts is documented offsite, the City of Ann Arbor will submit the Notice of Off-Site Migration (Form EQP4482) to the MDEQ and applicable adjacent property owners.

#### **5.4.3 Fire or Explosion Hazard**

No impacts were detected above Part 201 Flammability and Explosivity Screening Levels.

#### **5.4.4 Notification to Contractors, Utility Workers and Easement Holders For Future Redevelopment Area**

All future work completed at the site will be in accordance with this Due Care Plan. The City of Ann Arbor will give notification to contractors, utility workers and easement holders of

subsurface hazards if subsurface work is proposed. A site specific health and safety plan shall be prepared by the Contractor that provides site safety information to workers who may come in contact with subsurface soils and groundwater. Workers will be notified of the subsurface hazards that are present in the 721 North Main project area by the Contractor's Site Health and Safety Coordinator.

#### **5.4.5 Health and Safety Plans**

Health and safety plan requirements specified in 29 CFR 1910.120 must include the following:

- Names of supervisory health and safety personnel;
- Hazard evaluation from the site;
- Specific site safety procedures;
- List of recommended personal protective equipment; and
- Emergency care procedures including the route to the nearest hospital or emergency care facility.

#### **5.5 Provide Site Entry**

Site entry is accessible to the public, except for the fenced off area on the north side of the site. If response activities are required in the publically accessible areas, site access may be limited while response activities are completed. Owners and operators are required to provide reasonable cooperation, assistance, and access to the persons that are authorized to conduct response activities at the facility, including the cooperation and access necessary for the installation, integrity, operation, and maintenance of any complete or partial response activity at the facility.

This shall not be interpreted to provide any right of access not expressly authorized by law, including access authorized pursuant to a warrant or a court order, or to preclude access allowed pursuant to a voluntary agreement.

#### **5.6 Site Land Use**

The owner or operator shall not impede the effectiveness or integrity of any land use or resource use restriction employed at the facility in connection with response activities.

#### **5.7 Acceptable Cleanup Criteria**

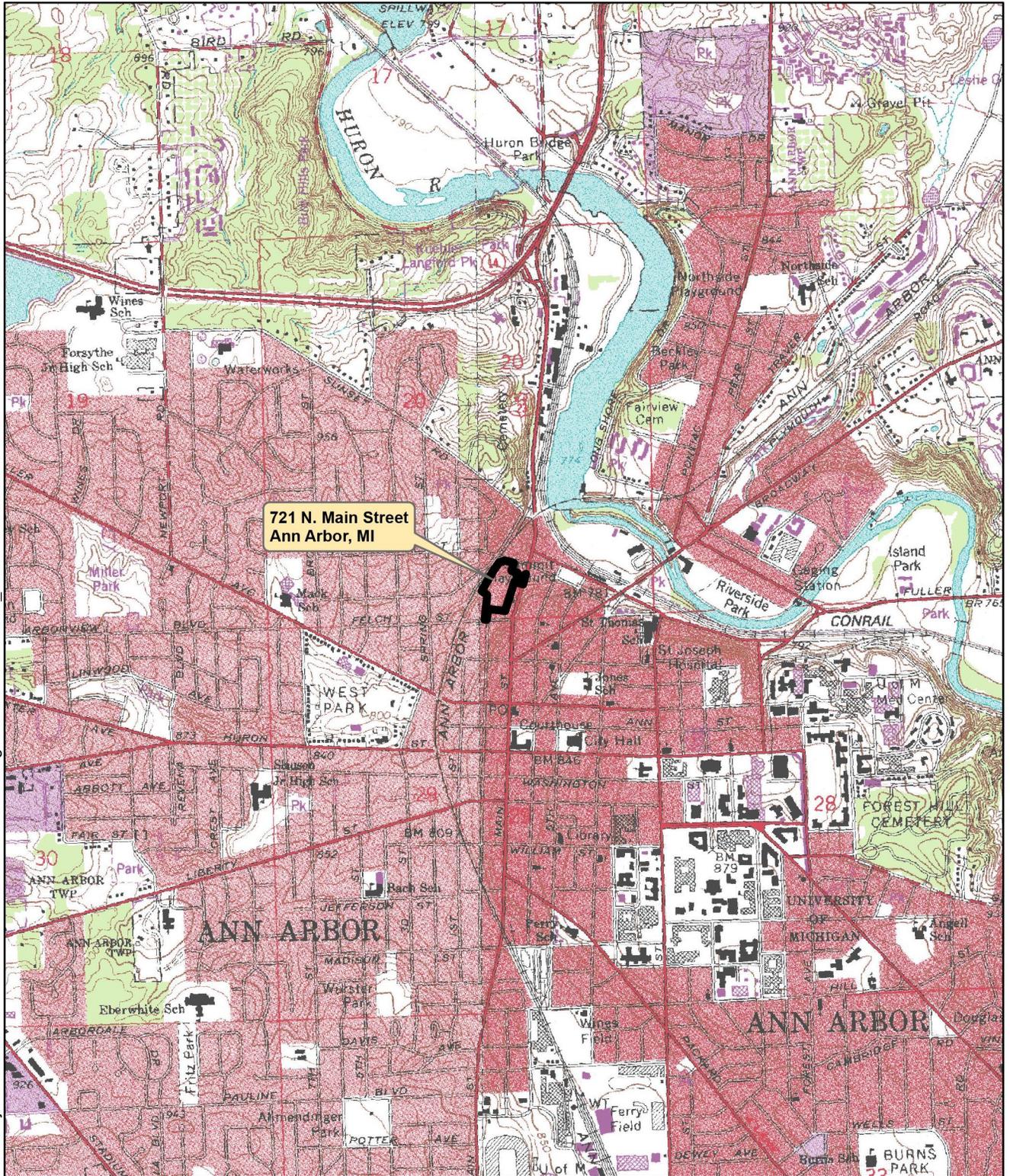
The due care obligations for the owner or operator under this section shall be based upon the current numeric cleanup criteria identified under section 20120a(1). The current effective date for numeric cleanup criteria is September 28, 2012.

## 6.0 REFERENCES

- Remediation and Redevelopment Division (MDEQ). 2004. *Operational Memorandum No. 1 – Part 201 Generic Cleanup Criteria and Part 213 Risk-Based Screening Levels*. Retrieved July 18, 2013 from [http://www.michigan.gov/documents/deq/deq-rrd-OpMemo\\_1\\_283544\\_7.pdf](http://www.michigan.gov/documents/deq/deq-rrd-OpMemo_1_283544_7.pdf)
- State of Michigan. Rendered June 28, 2013. Section 20107a of Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) Retrieved July 15, 2013 from [http://www.legislature.mi.gov/\(S\(4wkllr55g1aam555wm51ud45\)\)/documents/mcl/pdf/mcl-324-20107a.pdf](http://www.legislature.mi.gov/(S(4wkllr55g1aam555wm51ud45))/documents/mcl/pdf/mcl-324-20107a.pdf)
- Tetra Tech, Inc. 2012. Phase I Environmental Site Assessment – 721 North Main Street, Ann Arbor, Michigan 48104. October 18, 2012.
- TTL Associates. 2013 Phase II Environmental Site Assessment– Former DPW Yard, 721 North Main Street, Ann Arbor, Michigan. February 2013.
- U.S. Department of Labor (OSHA). 2006. *Occupational Safety and Health Standards* (29 CFR 1910).

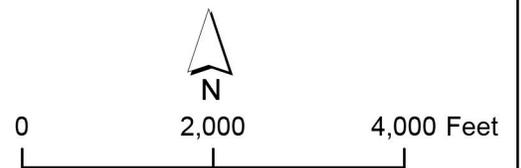
## FIGURES

P:\Projects\Ann Arbor\721 North Main Street\GIS-data\Figure 1-Due Care Plan\_REV.mxd



BASE MAP: USGS TOPO

 Site Boundary



ORIGINAL BY: A. RAUSS  
 DATE: 07/24/2013  
 REVISED BY:  
 DATE:

721 NORTH MAIN STREET  
 DUE CARE PLAN  
 ANN ARBOR, MICHIGAN  
 SITE LOCATION

FIGURE  
 1

P:\Projects\Ann Arbor\721 North Main Street\GIS\data\Figure 2-Due Care Plan.mxd



SITE DRAWING PROVIDED BY SMITHGROUPJJR

Allen Creek Floodway



0 100 200 Feet

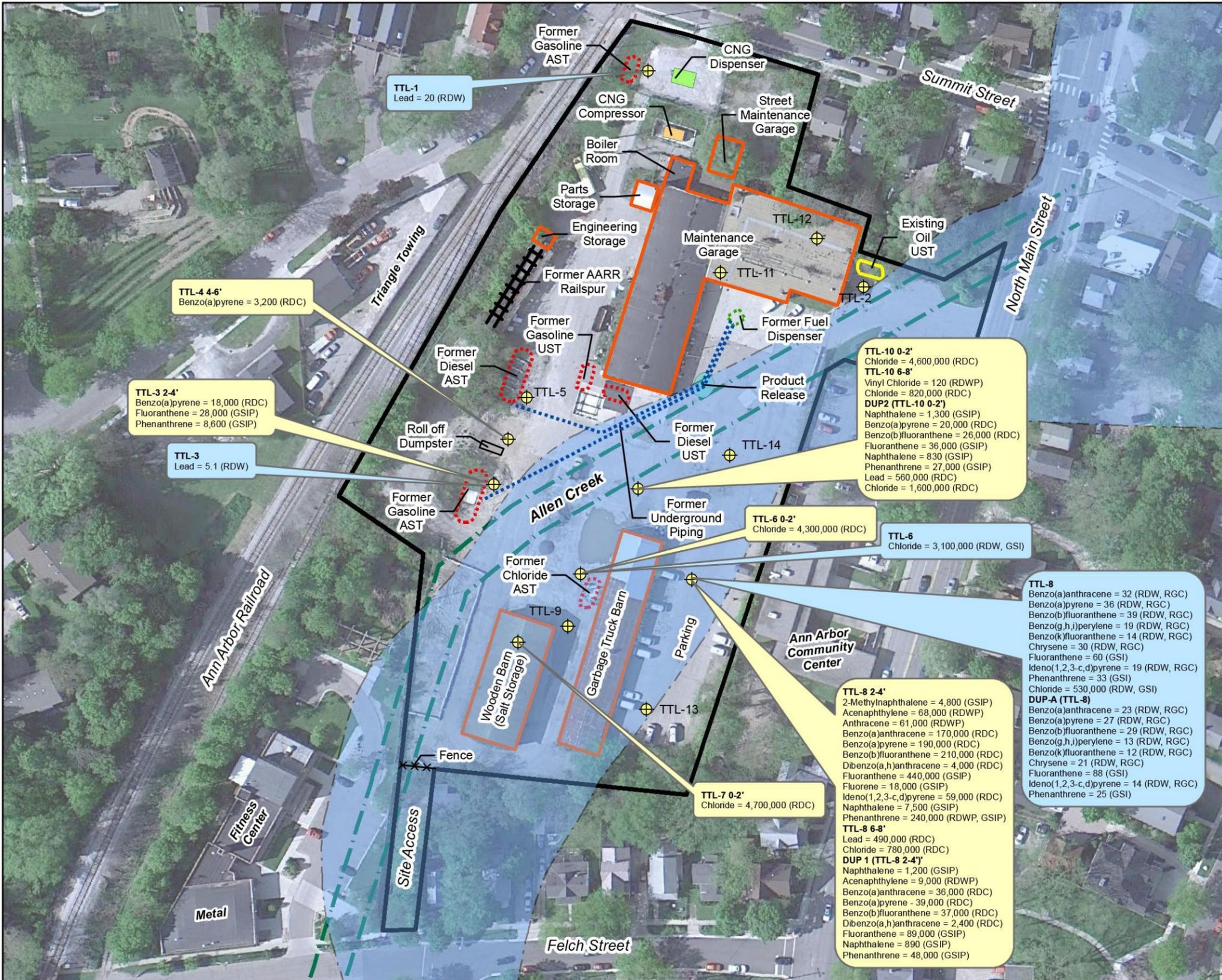


ORIGINAL BY: A. RAUSS  
 DATE: 07/19/2013  
 REVISED BY: A. RAUSS  
 DATE: 07/30/2013

721 NORTH MAIN STREET  
 DUE CARE PLAN  
 ANN ARBOR, MICHIGAN  
 SITE IMPROVEMENTS

FIGURE  
 2

P:\Projects\Ann Arbor\721 North Main Street\GIS\data\Figure 3-Due Care Plan.mxd



**Legend:**  
 All of the following locations are approximate:  
 (based on historical documents and site walk during the Phase I ESA)

- ⊕ Soil Boring
- ⬡ Approximate Site Boundary
- ⬢ Former UST/AST
- ⬢ Former Fuel Dispenser
- ⬢ Existing UST
- ⬢ Existing Compressor
- ⬢ Existing Dispenser
- ⬢ Building Outline
- ⬢ Area of Release
- Allen Creek
- ⬢ Allen Creek Floodway
- ⋯ Former Underground Piping
- ⊗ Fence

**Groundwater Result**

TTL-6  
 Chloride = 3,100,000 (RDW, GSI)  
 Exceeded Criteria  
 Concentration (micrograms per liter)  
 Exceeded Parameter

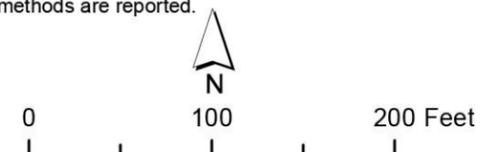
**Soil Result**

TTL-6 0-2'  
 Chloride = 4,300,000 (RDC)  
 Exceeded Criteria  
 Concentration (micrograms per kilogram)  
 Exceeded Parameter

**Notes:**

AARR = Ann Arbor Railroad  
 AST = Aboveground Storage Tank  
 CNG = Compressed Natural Gas  
 UST = Underground Storage Tank  
 TTL = TTL Associates, Inc. Soil Boring or Temporary Groundwater Monitoring Well  
 RDW = Residential Drinking Water Criteria  
 RDC = Residential Direct Contact Criteria  
 GSI = Groundwater Surface Water Interface Criteria  
 RDWP = Residential Drinking Water Protection Criteria  
 GSIP = Groundwater to Surface Water Interface Protection Criteria  
 RGC = Residential Groundwater Contact

- Groundwater results include concentrations that exceed Groundwater Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 Risk-Based Screening Levels (RBSLs), September, 2012.
- Soil results include concentrations that exceed Soil Part 201 Generic Cleanup Criteria and Screening Levels (RBSLs), September, 2012.
- Explanations of criteria shown can be found in the Michigan Department of Environmental Quality Footnotes document.
- Groundwater results expressed in micrograms per liter, soil results expressed in micrograms per kilogram.
- Identified features (current and and historical) were described in the 721 North Main Street Phase I Environmental Site Assessment, dated October 18, 2012.
- Groundwater and soil sampling locations and results were reported in the Phase II Environmental Site Assessment, dated February 2013.
- Naphthalene concentrations detected at TTL-8, TTL-10 and associated duplicates were analyzed both as a volatile organic compound (USEPA SW-846 method 8260) and a semi-volatile organic compound (USEPA SW-846 method 8270). Detections from both methods are reported.



BASE MAP: GOOGLE EARTH SATELLITE IMAGERY



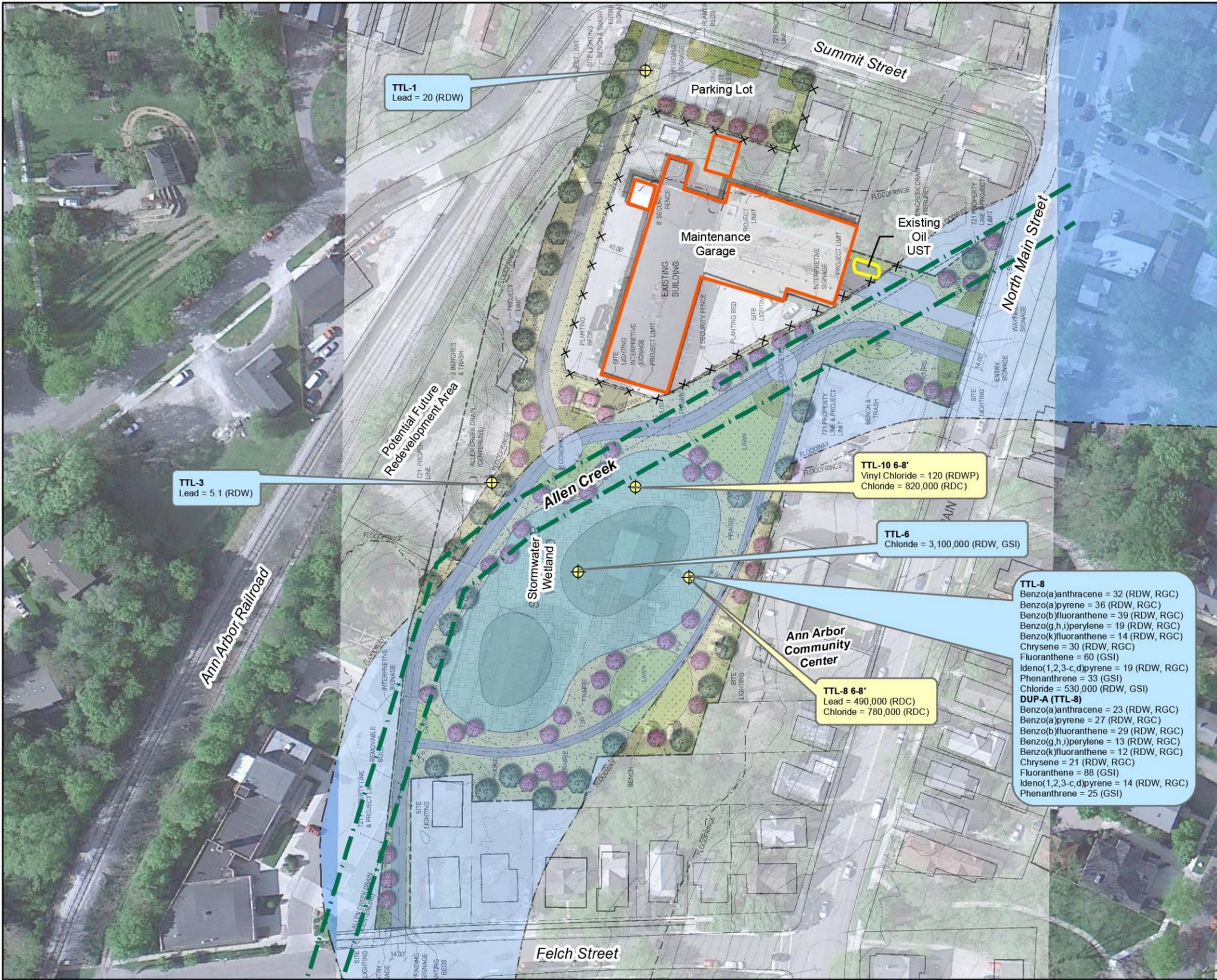
ORIGINAL BY: M. CAPODIVACCA  
 DATE: 09/17/2012  
 REVISED BY: MC  
 DATE: 08/29/2013

721 NORTH MAIN STREET  
 DUE CARE PLAN  
 ANN ARBOR, MICHIGAN

SITE IMPACTS PRIOR TO REMEDIATION AND REDEVELOPMENT

FIGURE  
 3

P:\Projects\Ann Arbor\721 North Main Street\GIS-data\Figure 4-Due Care Plan.mxd



⊕ Soil Boring  
 Existing UST  
 Building Outline  
— · — · Allen Creek  
 Allen Creek Floodway  
x x Fence

**Groundwater Result**

TTL-6 Chloride = 3,100,000 (RDW, GSI)
 

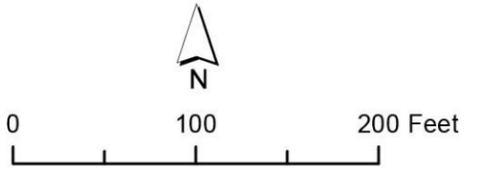
- Sample Name
- Exceeded Criteria
- Concentration(micrograms per liter)
- Exceeded Parameter

**Soil Result**

TTL-10 6-8" Vinyl Chloride = 120 (RDWP)  
 Chloride = 820,000 (RDC)
 

- Sample Name and Depth
- Exceeded Criteria
- Concentration(micrograms per kilogram)
- Exceeded Parameter

- Notes:**
- UST = Underground Storage Tank  
 TTL = TTL Associates, Inc. Soil Boring or Temporary Groundwater Monitoring Well  
 RDW = Residential Drinking Water Criteria  
 RDC = Residential Direct Contact Criteria  
 GSI = Groundwater Surface Water Interface Criteria  
 RDWP = Residential Drinking Water Protection Criteria  
 RGC = Residential Groundwater Contact
- Groundwater results include concentrations that exceed Groundwater Residential and Nonresidential Part 201 Generic Cleanup Criteria and Screening Levels; Part 213 Tier 1 Risk-Based Screening Levels (RBSLs), September, 2012 after remediation.
  - Soil results include concentrations that exceed Soil Residential Part 201 Generic Cleanup Criteria and Screening Levels (RBSLs), September, 2012 after remediation.
  - Explanations of criteria shown can be found in the Michigan Department of Environmental Quality Footnotes document.
  - Groundwater results expressed in micrograms per liter, soil results expressed in micrograms per kilogram.
  - Identified features (current and and historical) were described in the 721 North Main Street Phase I Environmental Site Assessment, dated October 18, 2012.
  - Groundwater and soil sampling locations and results were reported in the Phase II Environmental Site Assessment, dated February 2013.
  - Site Improvement Overlay provided by SmithGroupJJR.
  - Public Access is prohibited in the fenced in area.



BASE MAP: GOOGLE EARTH SATELLITE IMAGERY



ORIGINAL BY: M. CAPODIVACCA  
 DATE: 09/17/2012  
 REVISED BY: MC  
 DATE: 08/29/2013

721 NORTH MAIN STREET  
 DUE CARE PLAN  
 ANN ARBOR, MICHIGAN

POST REMEDIATION AND REDEVELOPMENT MAP

FIGURE  
 4

# PHASE I ENVIRONMENTAL SITE ASSESSMENT

721 North Main Street  
Ann Arbor, Michigan 48104



SMITHGROUP JJR

October 18, 2012

# **PHASE I ENVIRONMENTAL SITE ASSESSMENT**

**721 North Main Street  
Ann Arbor, Michigan 48104**

**Prepared for:**

**SmithGroupJJR  
201 Depot Street, Second Floor  
Ann Arbor, MI 48104**

**Prepared by:**

**Tetra Tech  
710 Avis Drive  
Ann Arbor, Michigan 48108**

**October 18, 2012**

**TABLE OF CONTENTS**

- 1. INTRODUCTION..... 1**
  - 1.1 GENERAL SITE DESCRIPTION ..... 1
  - 1.2 OBJECTIVES..... 1
  - 1.3 DESCRIPTION AND CURRENT USES OF SUBJECT PROPERTY AND SURROUNDING AREA ..... 2
- 2. PAST USES OF SUBJECT PROPOERTY AND SURROUNDING AREAS ..... 3**
  - 2.1 PREVIOUS PROPERTY OWNERS ..... 3
  - 2.2 AERIAL PHOTOGRAPHY INTERPRETATION ..... 3
  - 2.3 HISTORICAL TOPOGRAPHIC MAP REVIEW ..... 4
  - 2.4 SANBORN INSURANCE MAP SEARCH ..... 5
  - 2.5 CITY DIRECTORIES ..... 6
  - 2.6 WASHTENAW COUNTY SERVICES WEBSITE ..... 7
  - 2.7 FREEDOM OF INFORMATION ACT (FOIA) REVIEW ..... 7
  - 2.8 PART 201 DATABASE REVIEW ..... 14
- 3. ENVIRONMENTAL RECORDS REVIEW..... 15**
  - 3.1 SUBJECT PROPERTY DATABASE HITS ..... 15
  - 3.2 NATIONAL PRIORITIES LIST ..... 16
  - 3.3 PROPOSED NATIONAL PRIORITIES LIST ..... 16
  - 3.4 DELISTED NATIONAL PRIORITIES LIST ..... 16
  - 3.5 NATIONAL PRIORITIES LIST LIENS ..... 16
  - 3.6 COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION, AND LIABILITY INFORMATION SYSTEM..... 16
  - 3.7 COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATIONS, AND LIABILITY INFORMATION SYSTEM, NO FURTHER ACTION PLANNED..... 16
  - 3.8 CORRECTIVE ACTION REPORT ..... 17
  - 3.9 RESOURCE CONSERVATION AND RECOVERY ACT – TREATMENT, STORAGE AND DISPOSAL ..... 17
  - 3.10 RESOURCE CONSERVATION AND RECOVERY ACT GENERATOR ..... 17
  - 3.11 EMERGENCY RESPONSE NOTIFICATION SYSTEM..... 18
  - 3.12 STATE HAZARDOUS WASTE SITES ..... 18

3.13 SOLID WASTE FACILITIES DATABASE .....	19
3.14 LEAKING UNDERGROUND STORAGE TANK.....	19
3.15 UNDERGROUND STORAGE TANK AND ABOVE GROUND STORAGE TANKS .....	21
3.16 ACTIVITY AND USE LIMITATIONS.....	21
3.17 BROWNFIELDS .....	22
3.18 BASELINE ENVIRONMENTAL ASSESSMENT SITES.....	22
3.19 RCRA-NON GENERATOR SITES .....	24
3.20 DELISTED CONTAMINATED SITES.....	25
3.21 DRY CLEANERS .....	25
3.22 MANUFACTURED GAS PLANT SITES .....	25
3.23 ORPHAN SITES .....	25
<b>4. PHYSICAL SETTING .....</b>	<b>27</b>
<b>5. KNOWLEDGEABLE SITE CONTACTS.....</b>	<b>28</b>
5.1 SEPTEMBER 4, 2012 MEETING.....	28
<b>6. SITE RECONNAISSANCE .....</b>	<b>30</b>
6.1 OBSERVATIONS.....	30
6.2 HAZARDOUS SUBSTANCES AND PETROLEUM PRODUCTS.....	30
6.3 STORAGE TANKS .....	31
6.4 POOL OF LIQUID.....	31
6.5 DRUMS.....	31
6.6 UNIDENTIFIED SUBSTANCE CONTAINERS .....	31
6.7 POLYCHLORINATED BIPHENYLS .....	31
6.8 PITS, PONDS, OR LAGOONS.....	32
6.9 SOIL INSPECTION .....	32
6.10 STRESSED VEGETATION.....	32
6.11 ODORS .....	32
6.12 SOLID WASTE .....	32
6.13 WASTE WATER .....	32
6.14 WELLS.....	33
6.15 SEPTIC SYSTEMS.....	33
6.16 SEPTEMBER 12, 2012 SITE VISITS.....	33

**7. CONCLUSIONS..... 34**

**8. SCOPE OF ACTIVITY ..... 36**

8.1 LIMITATION OF USE OF THIS REPORT ..... 36

8.2 LIMITATIONS AND EXCEPTIONS ..... 36

## FIGURES

- Figure 1 Site Layout with Location Inset
- Figure 2 Maintenance Garage Schematic
- Figure 3 Estimated Locations of RECs

## APPENDICES

- Appendix A Property Description
- Appendix B Environmental Database Resources (EDR) Aerial Photographs
- Appendix C EDR Historical Topographic Maps
- Appendix D EDR Sanborn Documentation
- Appendix E EDR City Directories
- Appendix F Freedom of Information Act Documents (on electronic copy only)
- Appendix G EDR Radius Map
- Appendix H Soil Map
- Appendix I Photographs
- Appendix J Qualifications of Environmental Professional

## EXECUTIVE SUMMARY

SmithGroupJJR (SGJJR) retained Tetra Tech to perform a Phase I Environmental Site Assessment (ESA) for the City of Ann Arbor (“the City”; collectively with SGJJR the client for this engagement) concerning the property located at 721 North Main Street (subject property) as part of the due diligence process. This Phase I ESA was performed in accordance with the scope and limitations specified in the American Society for Testing and Materials (ASTM) Standard E 1527-05. This Phase I ESA has been performed to identify Recognized Environmental Conditions (RECs) at the subject property.

RECs are defined in the ASTM Standard E 1527-05 as the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into the structures on the property or into the ground, groundwater, or surface water for the property. The term includes hazardous substances or petroleum products, even under conditions in compliance with current environmental regulations.

The Phase I ESA for the subject property has identified 9 RECs for the subject property based on available information. RECs include:

1. Stained soil beneath three (3) one-gallon milk cartons containing a dark odorous substance;
2. UST-containing waste oil and skimmer located on the eastern side of the maintenance building;
3. Former 16,000 gallon gasoline AST in the northwest corner of the subject property;
4. Soil and groundwater beneath the former gasoline and diesel ASTs;
5. Soil beneath the former chloride ASTs;
6. Soil beneath the wooden barn where road salt was stored for over two decades;
7. Soil beneath concrete in maintenance building where hydraulic oil UST leaked and the associated trench was filled in with concrete;
8. Soils located under the former waste oil tank with elevated levels of lead and chromium documented for closure of the 1991 waste oil release; and
9. Soil surrounding the sumps located in the wash bay area.

In addition, the following items which are not RECs but may warrant further consideration were identified in completing this Phase I ESA:

10. Allen Creek Drain, a listed Part 201 site, located beneath the subject property;
11. Unlabeled but potential asbestos containing tiles within the maintenance building;
12. Labeled 'asbestos containing' wrapped pipes observed within the maintenance building;
13. Soil beneath concrete in southern end of maintenance building where asphalt was stored;
14. Stained concrete within the maintenance building near the motor oil tanks;
15. Stained concrete within the maintenance building near the spent antifreeze, hydraulic oil, and waste oil tanks;
16. Adjacent former Standard Oil Company property containing several ASTs; and
17. Hoist system, including underground piping and an associated reservoir of hydraulic oil within the maintenance building.

Finally, identified previously remediated areas and/or historic activities on the subject property noted in completion of this Phase I ESA include and are listed for information purposes only:

18. Soil and groundwater located east of the maintenance building (near 'purge well', AH-01, MW-3, AH-06);
19. Soil and groundwater beneath the former gasoline and diesel USTs, south of the maintenance building (MW-4);
20. Underground conveyance piping between the former tanks and dispenser islands;
21. Boiler room containing coal remnants, north of the maintenance building; and
22. Railspur on the western side of the property.

# 1. INTRODUCTION

## 1.1 General Site Description

SmithGroupJJR (SGJJR) retained Tetra Tech to perform a Phase I Environmental Site Assessment (ESA) of the property located at 721 North Main Street, Ann Arbor, Michigan 48104, herein referred to as the "subject property". The Tax ID number for the site is 09-09-20-409-006, which is comprised of a 5.10 acre lot (Appendix A). Generally, the site lies north of Felch Street, east of the Ann Arbor Railroad (AARR), west of Main Street, and south of Summit Street. The Site Layout with Location Inset (Figure 1) illustrates the subject property location.

## 1.2 Objectives

The objectives of the Phase I ESA for the subject property are to:

- Identify and evaluate environmental conditions at the subject property; and
- Provide an interpretation on the nature of environmental risk or liability that may be present.

This assessment has been completed in general conformance with the American Society for Testing and Materials (ASTM) Standard E 1527-05 – *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*, as outlined in our proposal. The primary focus of the Phase I ESA process is to identify recognized environmental conditions (RECs) and is limited to the identification of RECs within the scope of the ASTM standard. As defined by ASTM, REC means:

“the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substance or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. 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.”

This Phase I ESA is limited to areas within and outside of existing structures and features which were readily accessible, and includes a review of historical information regarding activities on

the subject property; review of readily available information concerning the subject property and nearby properties of environmental concern. This Phase I ESA does not include the following:

- Subsurface investigations or inspections within walls or ceilings of buildings;
- Sampling or detailed surveys for lead-based paint, lead in pipes or within drinking water supplies;
- Polychlorinated biphenyls (PCB's) in paint, fluorescent light ballasts, transformers, circuit breakers and other electrical equipment;
- Radon gas or radioactivity;
- Sampling or detailed surveys for Suspected Asbestos Containing Materials; and
- Research of wetlands issues.

The findings, conclusions, and interpretations are subject to modification if subsequent information is discovered by Tetra Tech or provided by others. The findings of this report are time-specific and are only representative of site conditions, as they existed at the time of the site visit.

### **1.3 Description and Current Uses of Subject Property and Surrounding Area**

The subject property is zoned as Public Land. Surrounding properties are located in residentially and commercially zoned areas. A paved entrance drive on the east side of the property provides vehicle access, and leads to a paved parking area surrounded by a fence to the east and south. Three large buildings remain on the subject property. The L-shaped building on the north side of the property was historically used as a maintenance garage, the wood structure on the southwest end of the property was historically used for salt storage, and the long brick structure on the southeast end of the property was historically used for garbage truck storage (**Figure 1**). Today, the L-shaped building is used to store old office furniture and garbage cans, the wood structure is vacant, and the long brick structure is used to store vehicles. There are miscellaneous garbage cans, a dumpster, three inaccessible storage areas (Street Maintenance, Parts Storage and Engineering Storage), abandoned school bus, and city service vehicles on the site. The subject property is fenced off behind the two structures on the south end of the site. A long narrow street traversing north/south and located on the north side of Felch Street is the southernmost portion of the subject property. This area is used for parking vehicles. There is a fence at the north end of the road to separate the main subject property from the area south. The large parking lot located on the subject property is currently being

used by a nearby business, Barracuda Networks. South of Summit Street on the subject property, a public compressed natural gas (CNG) dispenser is available for residents to fuel their vehicles.

Southwest of the subject property is the former Standard Oil Company. Today the building is used for an art studio (Metal) and a fitness center. The former aboveground storage tanks (ASTs) of Standard Oil Company have been removed; however the concrete tank holder remains onsite and is covered with vegetation.

Occupying the corners of Felch Street and North Main Street are residential houses, commercial properties, and the Ann Arbor Community Center. Some of the residences appear to be vacant.

The AARR bounds the site on the west. Triangle Towing occupies the property west of the AARR.

## **2. PAST USES OF SUBJECT PROPOERTY AND SURROUNDING AREAS**

The following sections present information regarding the past history of the subject property and the surrounding area. Historic information for this site was obtained from aerial photographs, a City Directory database search, Freedom of Information Act (FOIA) documents, and available City of Ann Arbor records.

### **2.1 Previous Property Owners**

There are no property transfer records for the subject property. As stated in the City Directory, the City of Ann Arbor Fleet Services and city garage has occupied the buildings on the subject property since they were built in the 1920s.

### **2.2 Aerial Photography Interpretation**

Aerial photographs were reviewed from flight years 1937, 1940, 1949, 1955, 1963, 1969, 1978, 1984, 1985, 1992, 1993, 1997, 2000, 2005, 2006, and 2012. A satellite image was reviewed from 2012. All aerial photographs are provided in **Appendix B**.

Review of the 1937 aerial photograph illustrates residential land surrounding the subject property and commercial land with several structures southwest of the subject property. The

Ann Arbor Railroad runs adjacent to and crosses the Huron River north of the subject property. There appear to be two main buildings (maintenance garage and Garbage Truck Barn) and multiple smaller buildings on the subject property in the 1937 aerial photograph. Residential buildings surround the subject property to the east, north, and south. A structure is visible in the northwest corner of the property in the 1937 aerial that may coincide with an AST identified in the Sanborn maps (see Section 2.4).

Aerial photographs from 1940, 1949, and 1955 exhibit limited change within the subject property and surrounding residential properties. The 1949 aerial appears to have an unknown stockpile located along the southwestern property boundary. A building addition is evident on the east side of the maintenance garage between 1955 and 1963 according to the aerial photographs. Many vehicles appear to be parked on the subject property. Also between 1955 and 1963, residential houses were replaced by a large building on North Main Street adjacent to and east of the subject property. There are no notable changes in the 1969 or 1978 aerial photographs with the exception of the removal of the AST in the northwest corner of the subject property.

The salt storage barn, apparent for the first time, is located west of the Garbage Truck barn in the 1984 aerial photograph suggesting it was built between 1978 and 1984. A new structure north of the subject property appears in the 1985 aerial photograph. East of the subject property, a parking lot was added on North Main Street in the 1992 aerial photograph. Two ASTs located on the western side of the subject property are visible in the 1984 aerial photographs. There are no notable changes in the 1993 and 1997 aerial photographs.

The only notable changes in the 2000 aerial photograph are darkened areas in the central area of the subject property. The darkened areas possibly represent new asphalt. The 2005 satellite image and 2006 aerial photograph do not depict any construction activities or obvious change in land use. In the 2012 aerial photograph, new concrete can be seen on the subject property. The central area of the subject property still appears to be used for vehicle storage. Standing water is evident near the Garbage Truck Barn.

### **2.3 Historical Topographic Map Review**

Tetra Tech representatives reviewed topographic maps spanning from 1904 to 1983. The topographic maps are included in this report as **Appendix C**. The scale, source, and date are provided on each topographic map.

The subject property is contained within the Ann Arbor East Quad and the adjacent properties to the west are located on the Ann Arbor West Quad. The 1904 topographic map is a 1:125,000 scale quadrangle map depicting the general location of the subject property in the northwest corner of the city of Ann Arbor, and southwest of the Huron River. Significant land features include a general slope to the northeast, corresponding to the flow of the Huron River, although the subject property is primarily flat. Allen Creek runs northeast towards the Huron River, through the middle of the subject property. Surrounding the subject property, the slope is east and northeast. A 1906 1:62,500 scale quadrangle map provides a topographic view of the South Lyon Quad, including east Ann Arbor. A 1965 1:24,000 scale quadrangle map provides a more focused view of the subject property and surrounding area. There are no structures mapped in the location of the subject property. According to the aerial photographs, three buildings existed on the subject property in 1965. The slight northeastern slope of the land surface can be seen. The 1973, 1978, and 1983 topographic maps are similar to the 1965 map with no significant differences.

#### **2.4 Sanborn Insurance Map Search**

Sanborn maps from 1916 to 1972 were reviewed for the subject property. Sanborn maps are provided in **Appendix D**. The Sanborn map from 1916 identifies the subject property as vacant, with Allen Creek running northeast through the center of the property. Residential properties line Summit, Felch, and North Main Streets, while Standard Oil Company occupies the area southwest of the subject property. A boiler repair shop is located near today's entrance to the subject property in the northeast corner. In the 1925 Sanborn map, most of the site conditions remain the same, however the boiler repair shop is now an auto repair shop. Buildings on the east side of the subject property are labeled with "junk yard".

The 1931 Sanborn map shows the expansion of Standard Oil Company to the southwest. Fuel storage tanks and large buildings can be seen on the Sanborn map. Possible leaking fuel tanks and fuel spills on the adjacent property present a risk for the subject property. A maintenance garage with capacity for 30 cars, trucks, or machinery appears on the subject property. According to the Sanborn map, the garage is constructed of steel, brick, and plastered walls. A 16,000 gallon gasoline AST is identified on the northwest corner of the property. The map identifies 'no exposure' (no coverage) in the southern end of the subject property in 1931. Allen Creek is no longer a surface feature in the 1931 Sanborn Map.

A new structure on the subject property appears on the 1948 Sanborn map. A “street equipment storage” building was erected on the south end of the subject property, north of the residential buildings. The building previously label as “junk yard” is now identified as apartments.

The 1972 Sanborn map shows the addition to the municipal garage on the subject property. Residential buildings north and east of the subject property were removed and a parking lot was added east of the subject property. The building to the east of the subject property, formerly labeled as apartments, is now the Ann Arbor Community Center. There is no exposure on the south end of the subject property for this Sanborn Map. The 16,000 gallon gasoline AST is still identified on the northwest corner of the property.

## 2.5 City Directories

City directories were reviewed for the years spanning 1910 to 2011, including business directories and telephone directories. The City Directory Report is included in **Appendix E** the source of which is Polk’s City Directory. The first listing for 721 N. Main Street is in 1932 as a City Garage. From 1932 to 2011 the subject property was listed as the following:

- Ann Arbor City Municipal Garage;
- City Street Department Fleet Services;
- City Department of Public Works;
- City Yards for Street Sewer Refuse and Garage;
- City Traffic Street Maintenance; and
- City Waste Field and Ann Arbor Recycling and Solid Waste.

From 1910 to 2011, surrounding properties are listed as private residences. In 2006 the adjacent properties are listed as a janitorial service and a vacant property. In 2011, five residential properties to the south and two residential properties to the north are listed as vacant. Following is a summary of current nearby addresses and their listed use:

Address	Use	Years Listed
708 North Main St.	Vacant, private residence, Thos J. Hession Concrete Contractors	1920-1932, 1940-2011

712 North Main St.	Vacant, private residence, Neff's Bait House	1910-2011
718 North Main St.	Vacant, private residence, Top to Bottom Cleaning	1910-2011
730 North Main St.	Vacant, private residence, Robey Tire Service, Wash Land Laundry, Town and Country Restaurant, Town's Barber Shop, Mister Rib Restaurant, Summit Party Shoppe, & Summit Party Store	1954-2011
733 North Main St.	Vacant, private residence, Ann Arbor Music Center, Fleming & Tamulevich & Associates booking agency	1910-1973, 1983-2011

The City Directories did not reveal any potential RECs regarding the subject property.

### **2.6 Washtenaw County Services Website**

The parcel ID number and current owner information were obtained for the subject property (**Appendix A**). Knowledgeable contacts within the City of Ann Arbor were also contacted for other pertinent information regarding past uses of the subject property. These interviews are included in Section 5.

### **2.7 Freedom of Information Act (FOIA) Review**

The following information was reviewed and can be located in **Appendix F**.

1. Michigan Department of Environmental Quality (MDEQ) Leaking Underground Storage Tank (LUST) Facilities List, reviewed June 1, 2012.
2. MDEQ letter dated January 13, 2000 granting unrestricted residential closure. This letter includes portions of the closure report dated December 9, 1999 and submitted by NTH Consultants, Ltd. (NTH).
3. *Environmental Property Assessments for Hawkins, 415 W. Washington Street and Municipal Garage Properties* dated March 5, 1990 and submitted to the City of Ann Arbor Parks and Recreation Department by Environmental Control Technology Corporation (Encotec) of Ann Arbor.
4. *The Allen Creek Greenway Findings and Recommendations* dated March 16, 2007 and completed by Allen Creek Greenway Task Force.
5. *Type A Closure Report for an Underground Storage Tank Waste Oil Release at the Ann Arbor City Garage*, dated April 7, 1992, submitted to Michigan Department of Natural Resources (MDNR)-Environmental Response Division (ERD) by The Traverse Group, Inc. (TGI).

6. *45 Day Report for a UST Release at The Ann Arbor City Garage*, dated December 5, 1991, submitted to MDNR by TGI.
7. *Gasoline Tank Supplemental Site Investigation Report for an Underground Storage Tank Release at 721 North Main Street*, dated June 21, 1993, submitted to MDNR-ERD by TGI.
8. *Initial Assessment Report for 721 North Main Street*, dated December 26, 1995 submitted by NTH to MDEQ-Underground Storage Tank Division.
9. *Corrective Action Plan* dated April 19, 1996 submitted by NTH to the City of Ann Arbor Engineering Division.
10. Various correspondence documents in the MDEQ file between the years 1989 and 1996.

Review of the MDEQ LUST database indicates that there were three separate releases documented at the site:

- C-1129-89 reported 12/15/89 of an unknown substance.
- C-2246-91 reported 10/23/91 of an unknown substance.
- C-0753-95 reported 06/16/95 for a diesel fuel release.

Two documents were provided by the City of Ann Arbor, the MDEQ letter dated January 13, 2000 granting unrestricted residential closure and *Environmental Property Assessments for Hawkins, 415 W. Washington Street and Municipal Garage Properties* (References 2 and 3 above). Review of the 1990 *Environmental Property Assessment* document indicates that there was total petroleum hydrocarbons present in the soil, although not quantified. Lead was also present in the soil at concentrations in excess of current applicable criteria.

The entire MDEQ form EQP3843 was included in the MDEQ letter described as reference 2 above, however limited figures are available. Review of the information provided indicates the following inconsistencies with the MDEQ LUST database:

- It appears that a gasoline release was reported on 12/14/89 from a 2,000-gallon tank. This coincides with the MDEQ unknown release C-1129-89.
- A second release was reported in June 1995 from a 1,000-gallon diesel fuel UST. This is likely release C-0753-95 described as a 2,000-gallon diesel fuel tank in the MDEQ LUST database.

- The third release, listed as an unknown substance on 10/23/91, in the MDEQ LUST database is not reported in the closure document. This is release number C-2246-91.

As a result of these inconsistencies, a FOIA request was submitted to the MDEQ and a file review was completed on August 9, 2012. Each of the releases identified above are described in detail from the reports obtained during the file review.

#### Waste Oil Release 10/23/91 (release number C-2246-91)

The *45 Day Report for a UST Release at The Ann Arbor City Garage*, dated December 5, 1991 by TGI indicates a confirmed release was reported on October 23, 1991 for a 500-gallon waste oil tank (Release number C-2246-91). Upon removal of the tank and the associated piping, a 2-inch long and one-half inch wide hole was found in the side of the UST. Three excavations were completed to remove 80 cubic yards of impacted soil. Verification of soil remediation samples were collected from around the tank and one under the piping. The samples were analyzed for only polynuclear aromatic hydrocarbons (PNAs) initially. Subsequent excavations included analyzing soil samples for PNAs, benzene, toluene, ethylbenzene, xylenes (BTEX), cadmium, chromium, lead and select samples were analyzed for PCBs. Sample depths varied between 4.5 and 7 feet below ground surface (bgs).

The *Type A Closure Report for an Underground Storage Tank Waste Oil Release at the Ann Arbor City Garage*, dated April 7, 1992, by TGI (Closure Report) indicates that PNAs were removed from the ground during the cleanup and that elevated levels of cadmium, chromium and lead existed at the site. TGI completed a soil background metals investigation and statistical analysis at the site to determine if the elevated and fluctuating concentrations of lead were due to the high amount of fill material found in the excavation. TGI concluded that the lead concentrations were due to an urban area with large quantities of fill material. As such, they requested and were granted closure for the waste oil tank without further remediation. A letter dated August 6, 1993 from MDNR is included in the correspondence document (reference 10 above) granting closure. Within the document, the MDNR indicates that the property is the location of a former landfill where open burning occurred. This is the only mention of a landfill in the documents reviewed for this site, but could be the 'junk yard' labeled on the 1925 Sanborn map (Section 2.4).

Currently, individual parameters are compared to MDEQ Remediation Division, Operational Memorandum No. 1: Part 201 Cleanup Criteria and Part 213 Risk-Based Screening Levels, dated March 25, 2011 (Part 201/213 criteria). These criteria were developed by the MDEQ to meet the requirements of Section 20120a(1) of the National Resources and Environmental Protection Act (NREPA), Public Act 451, as amended. There are Part 201/213 Criteria for both hexavalent and trivalent chromium. Sample analyses completed in 1991 were not differentiated and therefore represent total chromium. When total chromium analyses are completed, the detected concentration must be compared to the most restrictive criteria, which is hexavalent chromium. Review of the analytical data compared to Part 201/213 Criteria indicates that the detected chromium concentrations from the waste oil tank excavation exceed groundwater to surface water interface protection (GSIP) criteria for hexavalent chromium.

#### Gasoline Release 12/14/89 (release number C-1129-89)

TGI removed a 2,000 gallon gasoline UST from the southwestern corner of the maintenance garage located at the subject property on December 14, 1989. Groundwater was encountered at 8 feet bgs. Approximately 45 cubic yards of soil were excavated during the tank removal. Analytical data collected during the excavation indicated that the soil and groundwater had been impacted with BTEX parameters above applicable criteria. A follow-up site investigation included installation of temporary and permanent monitoring wells and soil sampling.

TGI reported in the *Gasoline Tank Supplemental Site Investigation Report for an Underground Storage Tank Release at 721 North Main Street*, dated June 21, 1993 of an underground piping release from approximately 1982. The product release was located east of the maintenance garage and west of Allen Drain. Underground piping traversed from the gasoline and diesel fuel ASTs located on the west side of the subject property to the fuel dispenser island east of the maintenance garage (**Figure 1**). Details of the type of product released were not documented, however it is known that soil was excavated and 'purge wells' were installed. The 'purge wells' are described as 55-gallon drums placed into the ground. No other details regarding the construction or use for recovery are documented. TGI sampled the water in one of these purge wells from 7.5 to 12 feet bgs. The BTEX concentration detected was nearly 30,000 parts per billion (ppb). It is unknown if this 'purge well' was removed or if others exist.

Within the correspondence documents reviewed, an *Initial Abatement Measures (20 Day Report)* indicates that TGI removed the gasoline tank, and approximately 10 feet of

underground piping was capped and removed. The vent pipe was also removed. The UST was in groundwater, which was encountered at approximately 8 feet bgs.

An extensive groundwater and soil sampling investigation was completed by TGI between 1990 and 1993. The soil and groundwater at the subject property had concentrations in excess of applicable criteria for select BTEX parameters. All locations were not analyzed for PNAs, but in some instances, total petroleum hydrocarbons are reported and indicate that PNAs may be present in other areas.

The soil impacts were primarily located along the east side of the maintenance garage between the underground piping/fuel dispenser island/Allen Creek and the maintenance building. There are additional concentrations of BTEX at a location on the southeast corner of the maintenance garage near the subject property entrance. The highest soil concentration was detected at the southern end of the maintenance building on the southeast corner (AH-01) between 5 and 7 feet bgs with a combined concentration of 9,190 ppb; primarily comprised of xylenes. When compared to the current soil Part 201/213 Criteria, the reported concentrations for ethylbenzene and xylene in soil exceed drinking water protection (DWP) and GSIP at AH-01.

Groundwater samples were collected from temporary monitoring wells (labeled as AH-01, AH-02, etc.) and permanent monitoring wells (labeled as MW-1, MW-2, etc.). The highest concentration of groundwater impacts at the subject property primarily correspond to the soil impacts (along the east side of the maintenance garage between the underground piping/fuel dispenser island/Allen Creek and the maintenance building). However other locations where BTEX concentrations were detected are as follows:

- West of the maintenance garage at MW-5 in the former location of a 16,000 gallon gasoline AST;
- Southwest corner of the maintenance garage (MW-4), where the former diesel and gas USTs were located; and
- Southeast corner of the maintenance garage near the subject property entrance (AH-12).

When compared to the current Part 201/213 Criteria, the groundwater sampling indicates the following exceedances:

- Benzene exceeds drinking water (DW);
- Xylenes and toluene exceed groundwater to surface water interface (GSI);

The 'purge well' water was sampled and exceeded the following Part 201/213 Criteria:

- Benzene exceeds DW, GSI and residential volatilization to indoor air inhalation;
- Ethylbenzene, toluene and xylenes exceed DW and GSI

Detectable concentrations of PNAs were also reported in the groundwater collected from MW-4 and AH-12 identified above. However, only total PNA concentrations were reported, therefore it is unclear what parameters are present in the groundwater.

A feasibility study was recommended by TGI at the end of the *Gasoline Tank Supplemental Site Investigation Report for an Underground Storage Tank Release at 721 North Main Street* report. Although the feasibility study was not located, the MDNR sent a letter dated July 26, 1993 to the City of Ann Arbor indicating that the site investigation was adequately defined and to proceed with development of a corrective action plan.

A document recovered in the correspondence file at the Jackson MDEQ offices indicates that TGI suggested the use of soil vapor extraction (SVE) with air sparging (AS) as a remediation technology for the site, estimated to take three years from the start date of November 1994. NTH was selected to implement the feasibility study. Information indicated that NTH would complete a pilot test with the following elements to determine the most efficient system for the site remediation:

- Pump test
- SVE
- AS
- Bioventing

#### Diesel Release June 1995 (C-0753-95)

Free product was identified on April 25, 1995 in MW-4 and was originally believed to be a result of the previous gasoline release until it was identified as diesel fuel. A total of 1.65 gallons of free product was removed from MW-4. NTH reported a diesel fuel release to the MDEQ on June 16, 1995 from a 1,000 gallon, steel UST. On December 26, 1995, an Initial Assessment Report (IAR) was filed for the release. On June 16, 1995, the UST was emptied, cleaned and closed in place by filling with cement grout. Soil around the tank was not excavated for site removal as it 'was not likely to cause a fire hazard or spread' and removing it would 'increase cost of corrective action'. Soil was excavated to reach the tank and expose it for cleaning. Several holes were evident in the bottom of the tank and observations of soil impacts, both

visual and olfactory were documented. It is assumed from the review of the limited documents that these soils were placed back into the excavation around the tank as both soil and groundwater remediation had not been completed to date according to the IAR.

Grab samples were collected from the soil and groundwater during the UST cleaning and are reported in the IAR. These samples were analyzed for BTEX and PNAs. Review of the data indicates that the following exceedances exist in soil when compared to the current Part 201/213 Criteria:

- Benzene, ethylbenzene, xylenes and naphthalene exceed both DWP and GSIP; and
- Toluene, fluoranthene, fluorene and phenanthrene exceed GSIP.

The following exceedances exist in the excavation water grab samples when compared to the current Part 201/213 Criteria:

- Xylenes, fluorene and naphthalene exceed GSI.

The potential environmental concern was migration to Allen Creek via site utility corridors, then to the Huron River. As such a monitoring well was installed along Allen Creek in August 1995 to monitor for migration. Additional groundwater and soil sampling were completed to determine the extent of impacts. Monitoring wells sampled did not report concentrations detected above reporting limits. The soil samples collected had the following exceedances:

- Ethylbenzene was detected above both GSIP and DWP in two soil borings; and
- Xylenes were detected above GSIP in one soil boring.

NTH designed the installation of remediation systems to remediate the combined release of diesel fuel, gasoline and impacts remaining from the product line release in 1982. NTH completed a number of remediation efforts between 1994 and 1999, including pilot tests for a pump and treat system, bioventing, SVE, and soil AS. It was during these pilot tests, that the diesel fuel release was identified and reported. Review of the *Corrective Action Plan (CAP)* dated April 19, 1996 indicates that two dewatering wells, two SVE/bioventing wells, and one AS well were proposed for the final remedy. An aboveground treatment system using granular activated carbon (GAC) for liquid and vapor would be required. Discharge to Allen Creek was proposed after treatment.

A National Pollutant Discharge Elimination System (NPDES) permit was applied for on July 29, 1996 and granted under permit number MIG080000. This indicates that the effluent from the pump and treat system was likely discharged to Allen Creek. Remediation was reported in the CAP to begin in September 1996.

Throughout the pilot test, soil samples were collected for BTEX, PNAs, methyl tertiary butyl ether (MTBE) and lead. Reportedly, six of the soil samples were analyzed for lead below MDEQ statewide default values and the seventh sample was below applicable criteria. MTBE concentrations were reported at concentrations detected below the applicable criteria.

In May 1999, when remediation efforts were nearly complete, Tier 1 criteria for MTBE in groundwater was reduced from 240 micrograms per liter (ug/L) to 40 ug/L. MDEQ Storage Tank Division personnel agreed to allow closure at the 240 ug/L criteria. Today, drinking water criteria for MTBE remains at 40 ug/L. Information included in the closure report dated December 9, 1999 (Reference 2) indicates five locations had concentrations of MTBE detected at concentrations above the current Part 201/213 criteria of 40 ug/L. The limited information provided also indicates xylenes, ethylbenzene, and benzene were detected above current Part 201/213 criteria. The extent of remediation from the treatment system's presumed operation between September 1996 and the closure report of December 1999 is not known. The FOIA review did not include any documents reporting the remediation progress.

## **2.8 Part 201 Database Review**

The MDEQ Part 201 Database was reviewed to determine if sites are located adjacent to the subject property. Allen Creek, which traverses the property within the stormwater drain is a Part 201 Site for BTEX contamination. The MDEQ Part 201 Database indicates that an interim response is in progress for the site listed on June 18, 2004 at 912 N. Main Street, which is downgradient of the subject property. Records identifying the presence, extent and origin of BTEX contamination in Allen Creek were not available for this Phase I ESA. A comprehensive file review or additional onsite sampling is needed to determine if this is a REC on the subject property.

### 3. ENVIRONMENTAL RECORDS REVIEW

Environmental Data Resources (EDR), Inc., conducted a thorough regulatory review of all available State of Michigan and Federal lists of area sites of environmental concern on August 13, 2012. The environmental database searches are summarized below. EDR's complete report is provided as **Appendix G**. The search radii for each database are per the ASTM Standard. The source and date of the government version of each database is provided in the Data Currency Tracking section of EDR's report. Each site listed in these databases has been evaluated to assess the likelihood of impacting the subject property; however, the objective of this Phase I ESA is to ascertain whether the use of the subject property by its tenants has impacted the subject property and whether adjacent properties have the potential to impact the subject property.

#### 3.1 Subject Property Database Hits

The subject property was identified in 7 databases on the EDR report:

- Resource Conservation and Recovery Act Non-Generator (RCRA-NonGen); a database that indicates that the subject property does not generate hazardous waste.
- Facility Index System (FINDS); a database that contains facility information about various compliance reporting requirements for the subject property.
- Waste Data System (WDS); a database that tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste and Liquid Industrial Waste programs.
- LUST; database that indicates a release has occurred from an underground storage tank at the subject property.
- Underground Storage Tank (UST); database that indicates registered underground tanks are located on the subject property.
- Aboveground Storage Tank (AST); database that indicates registered aboveground tanks are located on the subject property.
- Permit and Emissions Inventory Data (AIRS – Aerometric Information Retrieval System); database that indicates the subject property is included in this inventory for air quality data.

### **3.2 National Priorities List**

The subject property is not included on the National Priorities List (NPL), a list compiled by the U.S. Environmental Protection Agency (U.S. EPA) of contaminated sites, otherwise known as Superfund, under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), to record risks to human health and the environment associated with contaminated water, soils, or air. A review of the database identified no NPL sites within one mile of the subject property.

### **3.3 Proposed National Priorities List**

The subject property is not listed on the Proposed National Priorities List (PNPL) database. This database lists properties proposed for the NPL. No PNPL sites are listed within one mile of the subject property.

### **3.4 Delisted National Priorities List**

The subject property is not listed on the Delisted National Priorities List (DNPL) database. This database lists properties that were once on the National Priorities List but have since been delisted. No DNPL sites are listed within one mile of the subject property.

### **3.5 National Priorities List Liens**

The subject property is not listed on the Federal Superfund Liens database.

### **3.6 Comprehensive Environmental Response, Compensation, and Liability Information System**

The subject property does not appear on the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) database, a listing of known and suspected uncontrolled or abandoned hazardous waste sites throughout the nation, maintained and compiled by the U.S. EPA, Office of Solid Waste and Emergency Response. CERCLIS contains all possible, proposed, and confirmed NPL sites. A review of the database identified no CERCLA sites within one-half mile of the subject property.

### **3.7 Comprehensive Environmental Response, Compensations, and Liability Information System, No Further Action Planned**

The subject property is not listed on the CERCLIS-No Further Remedial Action Planned (NFRAP) database, a listing of sites that have been removed from the CERCLIS database. NFRAP are sites where contamination was not found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious

enough to require NPL consideration. The database search listed no sites within one-half mile of the subject property.

### **3.8 Corrective Action Report**

The U.S. EPA maintains a Corrective Action (CORRACTS) database of RCRA facilities, which are undergoing “corrective action.” The subject property was not listed in the database and no sites were identified within one mile of the subject property.

### **3.9 Resource Conservation and Recovery Act – Treatment, Storage and Disposal**

The subject property does not appear on the RCRA-Treatment, Storage and Disposal (TSD), which includes information on sites that generate hazardous wastes and those which operate TSD facilities, as defined by RCRA. The RCRA database did not identify any RCRA-TSD sites within one-half mile of the subject property.

### **3.10 Resource Conservation and Recovery Act Generator**

The RCRA – Conditionally Exempt Large and Small Quantity Generators (CELQG and CESQG, respectively) contains information on hazardous waste handlers regulated by the U.S. EPA under RCRA, RCRA notifiers, transporters, and formerly regulated RCRA sites. CESQGs generate less than 100 kilograms (kg) of hazardous waste or less than 1 kg of acutely hazardous waste per month. There were nine CESQGs identified within one-quarter mile of the subject property.

<b>Property Name</b>	<b>Address</b>
U of M Community Dental Center	406 N Ashley
J P Eureka Cleaners	308 N. Main St.
Armorthane of Michigan LLC	907 N. Main St.
Molecular Therapeutics Inc.	924 N. Main St.
Biotectix LLC	940 N. Main St.
C.B. Development	220 Felch St.
DTE Michigan	340 Depot St.
Main Street Motors	906 N Main St.
DTE Energy/MichCon	841 Broadway St.

No violations were reported for the above RCRA-CESQGs.

### 3.11 Emergency Response Notification System

The Emergency Response Notification System (ERNS) contains information on specific notification of release of oil and hazardous substances into the environment. The search radius includes only the subject property and it is not listed in the database.

### 3.12 State Hazardous Waste Sites

The State Hazardous Waste Site (SHWS) database contains information on sites that are the state equivalent of CERCLIS sites. These sites may or may not be listed in the CERCLIS database. These are priority sites planned for cleanup using State funds. The subject property was not listed in the database. Eleven properties were identified in the SHWS database search. Each of the properties is located within one mile of the subject property. Regional groundwater flow is assumed to be to the northeast, towards the Huron River.

Property Name	Address	Direction and Distance from Subject Property	Potential REC?
815 Wild St	815 Wild St.	NNW 0- $\frac{1}{8}$ mile	No
Ann Arbor YMCA	396-424 W. Washington St.	SSW $\frac{1}{4}$ - $\frac{1}{2}$ mile	No
H and K Campus Properties	212-216 S. State St.	SE $\frac{1}{2}$ -1 mile	No
Eaton Corporation	315 S. First St.	SSW $\frac{1}{2}$ -1 mile	No
U of M Argus Building	400 Fourth St.	SSW $\frac{1}{2}$ -1 mile	No
Armen Cleaners	630 S. Ashley	S $\frac{1}{2}$ -1 mile	No
Allen Creek Drain	912 N. Main St.	NNE 0- $\frac{1}{8}$ mile	No
MichCon	841 Broadway St.	ENE $\frac{1}{8}$ - $\frac{1}{4}$ mile	No
Lansky Scrapyard	1100 N. Main St.	N $\frac{1}{4}$ - $\frac{1}{2}$ mile	No
Lotus Engineering	1254 N. Main St.	N $\frac{1}{4}$ - $\frac{1}{2}$ mile	No
Broadway Coin Laundry	1120 Broadway	ENE $\frac{1}{4}$ - $\frac{1}{2}$ mile	No

Ten of the above SHWS sites do not pose a potential REC to the subject property. Based on the direction of groundwater flow, the U of M Argus Building could pose a risk. However, the distance to the subject property is over  $\frac{1}{2}$ -mile from the U of M Argus Building and is not expected to pose a risk to the subject property.

### 3.13 Solid Waste Facilities Database

The Solid Waste Facilities Database (SWF/LF) lists solid waste disposal facilities or landfills in Michigan. These may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D, Section 4004 criteria for solid waste landfills or disposal sites. The subject property was not listed in the database and no sites were identified within one mile of the subject property.

### 3.14 Leaking Underground Storage Tank

The LUST list provides information on known leaking underground storage tanks in the State. In addition to the subject property, twenty-seven LUST sites were identified in the database search within one-half mile of the subject property. Below is a table summarizing the LUST sites within one-half mile of the subject property.

Property Name	Address	Release Date	Substance Released	Release Status
Beakes St. Service Station	101 Beakes St.	9/27/1989	Not reported	Closed
Arcure Motors	617 Detroit St.	7/22/1994	Used oil	Closed
De Long BBQ Pit	314 Detroit St.	3/14/2001	Other	Closed
University Fuel Mart	300 N. Main St.	3/3/1992	Gasoline	Closed
Bill Muncy's Service	423 Miller Ave.	2/2/1999	Unknown	Closed
City of Ann Arbor Fire Department	111 N. Fifth Ave.	9/10/1992	Diesel	Closed
Ashley Terrance Development	208 W. Huron St.	7/24/2006	Gasoline, diesel	Closed
City of Ann Arbor	100 N. Fifth Ave.	9/28/2011	Diesel	Closed
Comerica Bank	300 E. Huron St.	10/8/1991	Not reported	Closed
Comerica Bank	312-314 E. Huron St.	10/9/1991	Unknown	Closed
Ann Arbor Co.	324 E. Huron St.	11/20/1991	Unknown	Closed
WCP Investments Partnership	117 N. First St.	3/19/1991	Unknown	Closed
Illis Auto Service	401 W Huron St.	10/6/1988	Not reported	Closed

Budget Rent A Car	200 S. Ashley St.	4/28/1993	Gasoline	Closed
Campus Auto	202 S. Division St.	9/22/1994	Gasoline	Closed
Ann Arbor Implement	210 S. 1 <sup>st</sup> St.	6/11/1993	Gasoline	Closed
Parks and Recreation	415 W. Washington St.	3/6/1992	Gasoline	Open
		9/19/1989	Not reported	Open
		12/20/1989	Not reported	Open
North Ingalls Building	400 N. Ingalls St.	12/13/1991	Unknown	Closed
Liberty Street	221 W. Liberty	7/13/2004	Not reported	Open
C.B. Development	220 Felch St.	5/26/1992	Diesel	Closed
		5/28/1992	Diesel	Closed
		6/4/1992	Gasoline	Closed
Dale Krull Construction	221 Felch St.	5/27/1992	Diesel	Closed
Broadway (DTE/MichCon)	841 Broadway St.	7/27/2009	Unknown	Open
		2/2/1993	Gasoline	Open
		6/8/1992	Unknown	Open
		12/3/1996	Unknown	Open
		12/11/1991	Unknown	Open
Ann Arbor Service Center	982 Broadway St.	12/11/1997	Gasoline	Closed
Clark Store #2121	1019 Broadway St.	7/1/2002	Gasoline	Open
		12/21/1990	Not Reported	Open
Marathon Unit #1102	1026 Broadway St.	9/6/2005	Gasoline, Used oil	Closed
Lowertown Development	923 Maiden Ln	10/29/2003	Unknown	Open
Lotus Engineering	1254 North Main St.	8/16/2004	Gasoline, Used oil	Closed
Ann Arbor City Garage (subject property)	721 North Main St.	6/16/1995	Diesel	Closed
		12/15/1989	Not Reported	Closed
		10/23/1991	Unknown	Closed

Releases from closed LUST sites listed above do not pose a risk to the subject property because of their release status, distance or direction relative to the subject property. The open

status LUST sites are downgradient or cross gradient of the subject property, therefore they do not pose a potential REC.

### 3.15 Underground Storage Tank and Above Ground Storage Tanks

The Registered UST list provides information for all registered USTs in the State. Ten UST sites were identified in the database search within one-quarter mile of the subject property.

Property Name	Address	In use?	Removed or Closed in place?
Beakes St. Service Station	101 Beakes St.	No	Yes
Arcure Motors	617 Detroit St.	No	Yes
De Long BBQ Pit	314 Detroit St.	No	Yes
University Fuel Mart	300 N. Main St.	Yes	No – 2 gasoline USTs
Melvin and Betty Lewis	800 N. Main St.	No	No – 4 USTs of unknown substance
C.B. Development	220 Felch St.	No	Yes
Robey Tire	936 N. Main St.	No	Yes
Dale Krull Construction	221 Felch St.	No	Yes
Main Street Motors	906 N Main St.	No	Yes
Broadway (DTE/MichCon)	841 Broadway St.	No	Yes

Seven of the above UST sites are also listed on the LUST site list. The LUSTs are closed and the USTs in use have no releases reported. The four tanks at 800 N. Main Street are listed as 'temporarily out of use' with no reported substance or date of change in status. This site is downgradient of the subject property. University Fuel Mart, the only UST site with active tanks, is located cross gradient of the subject property. If a release occurred it would not pose a potential REC to the subject property due to the direction of groundwater flow.

### 3.16 Activity and Use Limitations

Sites listed in the Activity and Use Limitations (AUL) database are sites with engineering and/or institutional controls in place. DeLong BBQ Pit (314 Detroit St.) is listed in the database search and the site is restricted to commercial III or IV property. DeLong BBQ Pit is located  $1/8$ - $1/4$  mile

cross gradient of the subject property. Bill Muncy Service (423 Miller Ave.) is listed on the database search as having site-specific restrictions, groundwater consumption restrictions, excavation and soil movement restrictions, and a site health and safety plan. Bill Muncy Service is located ¼-½ mile southwest of the subject. This site is upgradient of the subject property. Tetra Tech (under the name GeoTrans) completed site assessment and closure for the LUST at this property in August 1999. A groundwater plume was not identified and closure was granted with a deed restriction for use of groundwater as a drinking water source. This site is not expected to pose a risk to the subject property.

### 3.17 Brownfields

The brownfields list contains information regarding brownfields properties addressed by the U.S. EPA Targeted Brownfields Assessments program, which is designed to help states, tribes, and municipalities minimize the uncertainties of contamination often associated with brownfields. Six brownfield sites appeared in the database search.

Property Name	Address	Cleanup Required?	Cleanup conducted?
Main and Summit	800 N. Main St.	No	NA
MichCon	841 Broadway St.	Yes	Interim Response in Progress
Broadway Coin Laundry	1120 Broadway St.	Not Reported	NA
200 S. Ashley St.	200 S. Ashley St.	Yes	Yes
226 W. Liberty	226 W. Liberty	Yes	Not Reported
1012 Pontiac Trail	1012 Pontiac Trail	Yes	Not Reported

The sites listed at 200 S. Ashley and 226 W. Liberty are ½ mile southeast of the subject property. Based on cross gradient groundwater flow, these sites do not pose a potential risk to the subject property.

### 3.18 Baseline Environmental Assessment Sites

The Baseline Environmental Assessment (BEA) Database provides a listing of all sites for which a BEA has been completed. The subject property is not listed as a BEA site. The database search identified 14 BEA sites within one-half mile of the subject property.

- 815 Wildt St.
- 110 Miller
- 314 Detroit St.
- 204 W. Huron
- 200 S. Ashley
- 220 Felch St.
- 202 S. Division St.
- 221 W. Liberty St.
- 340 Depot St.
- 1012 Pontiac Trail
- 990 Broadway St.
- 923 Maiden Ln.
- 1254 N. Main St.
- 1120 Broadway

These sites are not expected to pose a risk based on their BEA status.

### 3.19 RCRA-Non Generator Sites

RCRA Non-Generator sites included in the database include selective information of sites which transport, store, and/or dispose of hazardous waste, but do not currently generate hazardous waste. There were six RCRA-NonGen sites listed within ¼ mile of the subject property.

Property Name	Address
Auto Strasse LTD	617 Detroit St.
M A V Development Co.	314 Detroit St.
303 Detroit St. LLC	303 Detroit St.
Amoco Oil Co.	300 N. Main St.
Ann Arbor Auto Service	907 N. Main St.
Michigan Consolidated Gas Co.	841 Broadway St.

Ann Arbor Auto Service has received a violation in the area of 'Generators – Pre Transport' in 2002, however the specific regulation violated was not reported. Notice of this violation was received and an onsite compliance evaluation was performed. No other RCRA-NonGen sites received violations.

### 3.20 Delisted Contaminated Sites

Delisted State Hazardous Waste Sites (DELSHWS) have been deleted from the List of Contaminated Sites. A review of the DELSHWS lists revealed one site within one mile of the subject property. Montgomery Pumping Station (432 Montgomery) was delisted because it no longer met criteria specified for DELSHWS sites.

### 3.21 Dry Cleaners

J P Eureka Cleaner, Inc. (308 N. Main St.) is the only drycleaner within a ¼ mile of the subject property. No releases or violations have been reported, however due to the upgradient location of the site, if a release occurred it could pose a risk to the subject property.

### 3.22 Manufactured Gas Plant Sites

The EDR Proprietary Manufactured Gas Plant (MGP) Database includes records of coal gas plants. Materials and byproducts of gas production are frequently disposed of at the plant site and can remain, serving as a continuous source of soil and groundwater contamination. A review of the MGPs within one mile of the subject property revealed two sites. Both sites are located east of the subject property. City Gas Works (Beakes Street) and The Ann Arbor Gas Company (Broadway Street) are cross gradient of the subject property. The direction of regional groundwater flow is to the northeast therefore, these sites do not pose a risk to the subject property.

### 3.23 Orphan Sites

EDR designates a listed site as an Orphan Site when the address cannot be properly located. EDR identified twenty Orphan Sites in the summary. Each of the twenty listed orphan sites was identified and five are within one mile of the subject property. These include the following:

Site Name	Data Base
University of Michigan Landfill	CERCLIS-NFRAP
MichCon Coal Plant #1	CERCLIS-NFRAP
MichCon Coal Plant #2	CERCLIS-NFRAP
202 & 212 South Division	BROWNFIELDS
MichCon Beakes Street	Hazardous Waste Site (HWS)

The University of Michigan Landfill and both MichCon Coal Plants are listed as CERCLIS-NFRAP sites. CERCLIS-NFRAP sites have been removed and archived from the inventory of CERCLIS sites. Therefore, these three sites do not pose a risk to the subject property.

The Orphan Site at 202 and 212 South Division is listed as a BROWNFIELDS site. This site was a state funded Part 201, Part 213, or LUST site that had been redeveloped by a private entity using the BEA process. This site does not pose a risk to the subject property.

The MichCon Beakes Street site is listed as an HWS and is within 1000 feet of the subject property. The site is located northeast of the subject property. Because the direction of regional groundwater flow is to the northeast, this site does not pose a risk to the subject property. An interim response is in progress for a portion of this site.

#### 4. PHYSICAL SETTING

The topography at the subject property is generally flat; gently sloping northeast, toward the Huron River. West of the subject property, the topography is sloping to the east, where the Huron River bends and moves from a southerly to an easterly flow direction. The subject property is approximately 2,000 feet south of the Huron River and is partially bound by a 20-foot high AARR embankment to the west and a 20-foot high slope to the north at W. Summit St. The interior of the site is largely flat, with a 2 foot drop in elevation between Felch St. on the south to N. Main St. on the northeast.

The United States Department of Agriculture Web Soil Survey indicates that two soil units were mapped across the subject property, Fox sandy loam, and Matherton sandy loam (**Appendix H**). These soils are described as level to very gently sloping. The Matherton sandy loam is described as somewhat poorly drained, while the Fox sandy loam is described as well drained. The site is located within an area classified as urban land. This classification indicated that soils have been mechanically re-worked thus making the original soil properties no longer evident. The bedrock geology is described as Mississippian Coldwater Shale by W.R. Farrand, 1982.

Allen Creek runs northeast through the subject property to the Huron River. The creek was re-routed through storm sewers underground, sometime between 1925 and 1931 in accordance with the Sanborn Maps. The subject property sits primarily on the floodway and flood fringe of the Huron River.

## 5. KNOWLEDGEABLE SITE CONTACTS

In a conversation between Patti McCall of Tetra Tech and Matthew Naud, Environmental Coordinator with the City of Ann Arbor on June 4, 2012, Mr. Naud indicated that the site currently contains a compressed natural gas (CNG) fueling station. He confirmed that the site was granted unrestricted residential closure for the previous LUSTs. Historical uses of the property included a railroad spur into the site for off-loading coal, and salt storage domes containing the city's salt for road de-icing. Historical uses of the site may represent other environmental impacts.

Tetra Tech employees interviewed four City of Ann Arbor employees on September 4, 2012. Three of the four employees had worked at the subject property. At a site visit on September 12, 2012, another City of Ann Arbor employee was able to answer questions about the subject property. Their knowledge and details of the site are presented in the following sections.

### 5.1 September 4, 2012 Meeting

Joy Gryzenia completed a site walk on August 30, 2012. During the site walk, knowledgeable site contacts were not available, and questions arose about the subject property and former practices at the site. A joint meeting was scheduled with Ken Jones, Tim Towles, Matt Naud, and Tom Gibbons on September 4, 2012. Joy Gryzenia and Patti McCall interviewed the city employees and noted the following information:

- The floor tiles upstairs in the maintenance building offices are believed to contain asbestos. The pipes in the maintenance building are wrapped in asbestos.
- There are hoists in the floor of the maintenance garage.
- There is a waste oil UST near the maintenance building eastern overhead door. The tank and associated skimmer remain in the ground. All other USTs have been removed.
- Two ASTs (gasoline and diesel) were located on the western side of the maintenance garage and were pumped to the fuel island on the east side of the maintenance garage (**Figure 1**). There was a release from the underground piping in the early 1980s.
- The fuel island was moved in 1992-1993.
- The railspur on the west side of the property was installed in the 1940s. Coal was delivered to the site and was used in the coal furnace, located in the boiler room on the north end of the maintenance garage.
- Salt was stored in the wooden barn from the early 1980s until 2010.

- Two 1,000 gallon chloride tanks were located to the west of the Garbage Truck Barn. They were in place from the early 1980s until 2008.
- A compressor on the north side of the property belongs to DTE. It is used for the CNG dispenser on the northwest corner of the subject property. DTE leases the land from the city.
- The site was granted "unrestricted residential site closure" from the State of Michigan for the reported LUST releases on record.
- Chemicals used on the property consist of typical maintenance chemicals such as solvents, paints, degreasers, brake fluid, antifreeze, cleaners, and fuels.
- Two 6-8' deep sumps are located within the wash bay, inside the maintenance building. Fifty-five gallon drums were placed within these sumps to collect solids and oils.
- Standard Oil Company, southwest of the subject property, had numerous ASTs onsite from 1949 to 1979. The site is believed to have been impacted by petroleum hydrocarbons.
- No dumping activities or spills were witnessed by the city employees interviewed.
- No transformers were believed to be used on the subject property.

## **6. SITE RECONNAISSANCE**

Site reconnaissance was conducted on the subject property on August 30, 2012 by Ms. Joy Gryzenia, Project Geologist with Tetra Tech. Ms. Gryzenia was accompanied during the onsite reconnaissance by Mr. Frank Burchett, a ten year veteran of the City of Ann Arbor Fleet Services. A subsequent site visit was conducted by Joy Gryzenia and Patti McCall on September 12, 2012. Ms. Gryzenia and Ms. McCall encountered Mr. Ken Ely, a City of Ann Arbor employee while onsite. Mr. Ely provided additional information about the subject property uses and history and was able to provide site access to a portion of the maintenance building that was previously locked. The purpose of the site visits was to assess the current land use and identify potential environmental concerns at the subject property.

During the site reconnaissance, the interior of the former maintenance building was found to be used as storage for old office furniture. Mr. Burchett informed Ms. Gryzenia that the furniture was moved from city hall during renovations and has been stored there since. Three main buildings are located on the subject property. A maintenance garage, wooden barn and Garbage Truck Barn were inspected. The majority of the property was visually assessed, but the presence of vehicles, and the inability to unlock doors to select sheds and outbuildings prevented the entire ground surface from being observed. On the exterior of the buildings, a dumpster, parking lot, fuel island, and subject property grounds were included in the reconnaissance. The following sections include details of observations made during the site reconnaissance. Photographs taken during the site reconnaissance are included in **Appendix I**.

### **6.1 Observations**

The following sections present specific observations made during the reconnaissance of the interior and exterior of the subject property during the on-site reconnaissance.

### **6.2 Hazardous Substances and Petroleum Products**

Four waste oil ASTs and two hydraulic oil ASTs were observed at the subject property. One waste oil tank located on the east side of the garage was installed in the former location of the leaking waste oil tank reported by TGI in 1991. Two motor oil ASTs were located in the paint booth of the maintenance garage and appear to be empty, with one of the tanks tipped on its side. There was a large pool of brown-orange liquid in the room, within 10 feet of the ASTs.

Two waste oil ASTs and two hydraulic oil ASTs were located in the central section of the maintenance garage. A stain on the ground was observed and kitty litter was placed on top of the stain. These two areas require further inquiry to determine if they are a REC.

Evidence of a hoist system was identified in two locations within the maintenance garage. Hoist systems that include underground piping to convey hydraulic oil typically maintain a reservoir of hydraulic oil below grade in a UST. Because overhead piping for the hoist was not identified, these two areas require further inquiry to determine if USTs are located beneath the building and meet the definition of an REC.

### **6.3 Storage Tanks**

Six ASTs were observed inside the maintenance garage and four empty plastic ASTs were observed on the west side of the property near the railroad tracks. The six ASTs located inside of the maintenance garage are described in the above section. The four empty ASTs located on the west side of the property had no indication of hazardous or petroleum products. City employees indicated these were used for storing water therefore they do not pose a potential risk to the subject property.

### **6.4 Pool of Liquid**

In the maintenance garage, a pool of orange-brown liquid was found inside the paint booth. It appears that the liquid had been pooled in that location for a while, although it was not apparent what the source of the liquid was. This area requires further inquiry to determine if it is a REC..

### **6.5 Drums**

One drum was observed inside the northwest corner of the Garbage Truck Barn. The gate was locked and the label of the drum was not visible. No staining or leaks were observed.

### **6.6 Unidentified Substance Containers**

Multiple paint cans, bottles, one and two gallon metal containers, and spray cans were observed on the west side of the Garbage Truck Barn and inside the maintenance garage. The contents were contained and no leaks or spills were evident.

### **6.7 Polychlorinated Biphenyls**

No PCB-containing transformers were identified on or near the subject property.

### **6.8 Pits, Ponds, or Lagoons**

Ponding of water on the ground surface, northwest of the Garbage Truck Barn was observed. The water was not discolored and did not have an odor; therefore it does not present an REC for the subject property.

### **6.9 Soil Inspection**

On the west side of the subject property, three one-gallon milk cartons were found lying on the ground. A dark liquid was inside the milk cartons. The soil underneath the milk cartons was discolored and an olfactory observation was noted. The gallon containers were less than half full, leading to the assumption that the liquid inside the containers had leaked. Due to the soil staining, olfactory observation, and unmarked containers, this is identified as a REC.

### **6.10 Stressed Vegetation**

Stressed vegetation was not observed on the subject property during the site reconnaissance.

### **6.11 Odors**

An olfactory observation was noted near the dumpster on the west side of the subject property where three one-gallon milk cartons containing a dark liquid were found.

Asphalt was stored inside the southern portion of the maintenance building and an odor was observed in this area.

### **6.12 Solid Waste**

Municipal solid waste dumpsters were located on the central region of the subject property, but it was unclear whether the dumpsters were used for trash on site, or if they were being stored on the subject property. A 40 yard roll off dumpster with unknown contents was observed on the west side of the subject property.

### **6.13 Waste Water**

Sanitary manholes are located onsite. The subject property uses the municipal sanitary sewer system. Storm-water sewers are also located throughout the subject property. Due to runoff from salt storage, storm water on the west side of the Garbage Truck Barn is directed into the sanitary sewer for treatment.

#### **6.14 Wells**

The subject property is currently serviced by a municipal water supply. Eight monitoring wells were observed during the site reconnaissance. The wells are positioned to the northwest and east of the fuel island, and to the east of the maintenance garage. City employees confirmed that these wells were installed during the LUST cleanup.

#### **6.15 Septic Systems**

An onsite septic system was not observed during the site reconnaissance; therefore it is assumed that the facility utilizes a municipal sanitary sewer.

#### **6.16 September 12, 2012 Site Visits**

Joy Gryzenia and Patti McCall completed a subsequent site visit on September 12, 2012. Ken Ely was onsite and provided additional information. The Tetra Tech employees noted the following information:

- A UST containing hydraulic oil thought to be approximately 50 gallons was located in the eastern section of the maintenance building. The tank leaked, was removed, and the area, including an associated trench, was filled with concrete.
- Ken Ely was able to open the locked door to the southern section of the maintenance building. This section was formerly used for parking dump trucks. An employee lunch room was also in the southern end of this building. The building is currently used for storing recycling and garbage cans.
- An oil burning furnace is located in the southern section of the maintenance building. An associated hydraulic oil tank is thought to be located near the furnace, although obstructions did not allow for verification.
- A chemical storage room located on the east corner of the maintenance garage was used for storing solvents, oil, etc., used in the overhead vehicle maintenance lines.
- Asphalt was stored inside the southern portion of the maintenance building.

## 7. CONCLUSIONS

This report presents the findings of a Phase I ESA for the City of Ann Arbor Fleet Services property located at 721 North Main Street, Ann Arbor, Michigan, Washtenaw County (subject property). The Phase I ESA was conducted for the purpose of providing information on current environmental conditions of the subject property. The Phase I ESA process involves reviewing site information, searching relevant government databases, performing interviews with persons knowledgeable with site use and completing a visual reconnaissance of the site in order to identify RECs.

The Phase I ESA for the subject property has identified 9 RECs for the subject property based on available information. RECs include:

1. Stained soil beneath three (3) one-gallon milk cartons containing a dark odorous substance.
2. UST-containing waste oil and skimmer located on the eastern side of the maintenance building;
3. Former 16,000 gallon gasoline AST in the northwest corner of the subject property;
4. Soil and groundwater beneath the former gasoline and diesel ASTs;
5. Soil beneath the former chloride ASTs;
6. Soil beneath the wooden barn where road salt was stored for over two decades;
7. Soil beneath concrete in maintenance building where hydraulic oil UST leaked and the associated trench was filled in with concrete;
8. Soils located under the former waste oil tank with elevated levels of lead and chromium documented for closure of the 1991 waste oil release; and
9. Soil surrounding the sumps located in the wash bay area.

In addition, the following items which are not RECs but may warrant further consideration were identified in completing this Phase I ESA:

10. Allen Creek Drain, a listed Part 201 site, located beneath the subject property;
11. Unlabeled but potential asbestos containing tiles within the maintenance building;
12. Labeled 'asbestos containing' wrapped pipes observed within the maintenance building;
13. Soil beneath concrete in southern end of maintenance building where asphalt was stored;
14. Stained concrete within the maintenance building near the motor oil tanks;

15. Stained concrete within the maintenance building near the spent antifreeze, hydraulic oil, and waste oil tanks;
16. Adjacent former Standard Oil Company property containing several ASTs; and
17. Hoist system, including underground piping and an associated reservoir of hydraulic oil within the maintenance building.

Finally, identified previously remediated areas and/or historic activities on the subject property noted in completion of this Phase I ESA include and are listed for information purposes only::

18. Soil and groundwater located east of the maintenance building (near 'purge well', AH-01, MW-3, AH-06);
19. Soil and groundwater beneath the former gasoline and diesel USTs, south of the maintenance building (MW-4);
20. Underground conveyance piping between the former tanks and dispenser islands;
21. Boiler room containing coal remnants, north of the maintenance building; and
22. Railspur on the western side of the property.

## **8. SCOPE OF ACTIVITY**

This Phase I ESA has been completed in a manner consistent with the level of care and skill ordinarily exercised by other professional consultants under similar circumstances. It is based on the application of scientific principles and professional judgment to certain facts with resultant subjective interpretations. The professional judgments expressed herein are based on facts currently available within the limits of the existing data, scope of work, budget, and schedule. To the extent that more definitive conclusions are desired by the client than are warranted by the currently available facts, it is specifically Tetra Tech's intent that the conclusions and recommendations stated herein be intended as guidance, and not necessarily a firm course of action, except where explicitly stated as such. We make no warranties, expressed or implied, including without limitations, and warranties as to merchantability or fitness of the property for a particular purpose. In addition, the information provided to you in this report is not to be construed as legal advice.

### **8.1 Limitation of Use of this Report**

Tetra Tech is not engaged in environmental assessment and reporting for the purpose of advertising, sales promotion, or endorsement of any client's interest, including raising investment capital, recommending investment decisions, or other publicity purposes. Client acknowledges that this report has been prepared for their exclusive use, and agrees that reports or correspondence from Tetra Tech will not be used or reproduced in full or in any part for such purposes, and may not be used or relied upon in any prospectus or offering circular. Client also agrees that none of the advertising, sales promotion or other publicity information obtained from this environmental assessment and report will mention or imply the name of Tetra Tech.

### **8.2 Limitations and Exceptions**

The findings, conclusions, and interpretations are subject to modification if subsequent information is developed by Tetra Tech or others. The findings of this report are time-specific and are only representative of subject property conditions as they existed at the time of the site visit.

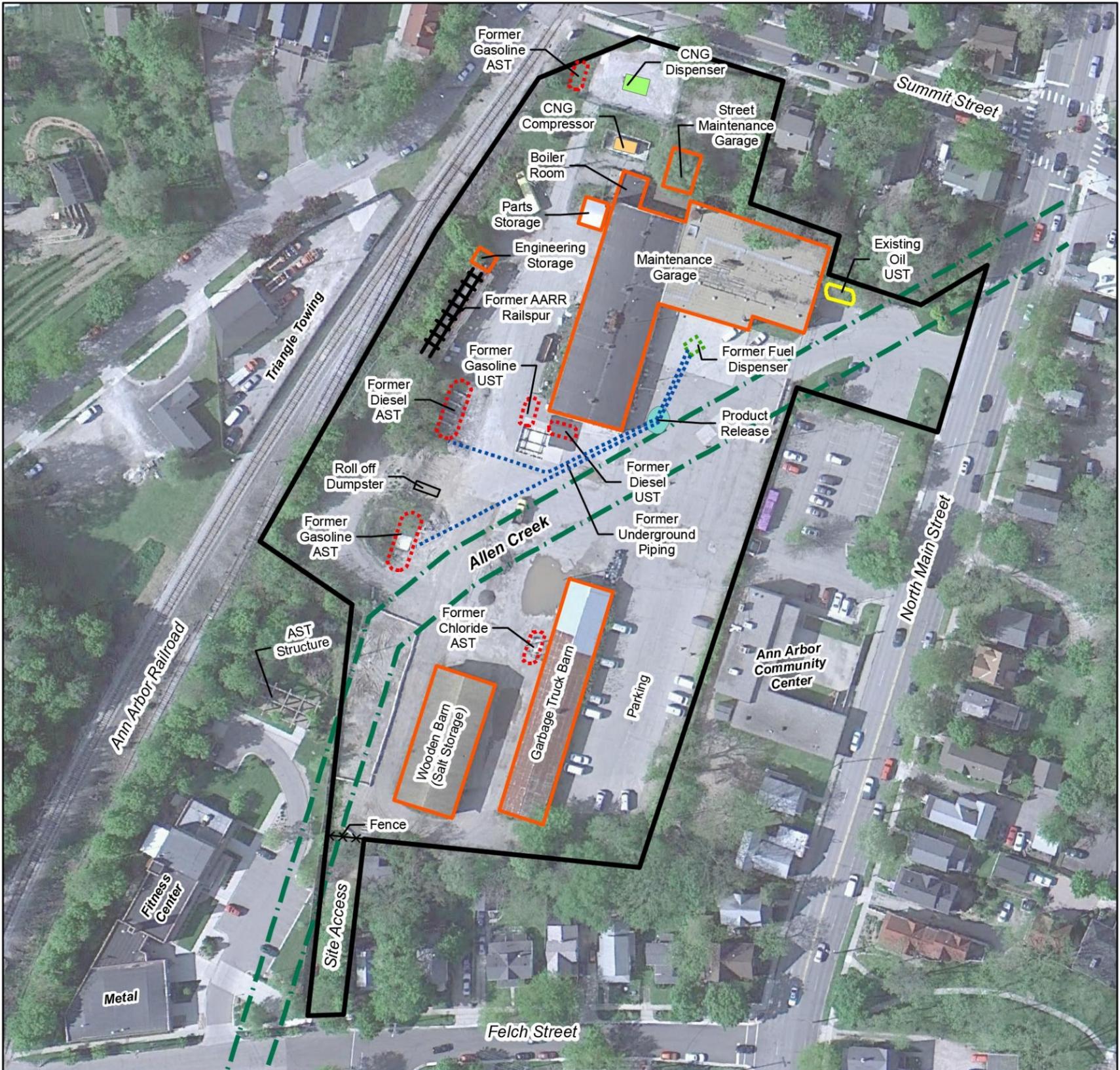
This report has been prepared for the benefit of SGJJR and the City of Ann Arbor and was compiled based partially on information supplied to Tetra Tech from outside sources and other information in the public domain. Tetra Tech has examined and relied on documents referenced in this report and on oral statements made by certain individuals. Tetra Tech has

not conducted an independent examination of the facts contained in referenced materials and statements. Tetra Tech has assumed that the documents are genuine and that the information provided in documents or statements is true and accurate. Tetra Tech has prepared this report in a professional manner, using the degree of skill and care exercised for similar projects under similar conditions by reputable and competent environmental consultants. The opinions herein are based on the information Tetra Tech obtained while compiling the report. Tetra Tech makes no warranty as to the accuracy of statements made by others that may be contained in this report, nor are any other warranties or guarantees, expressed or implied, included or intended by the report, except that it has been prepared in accordance with the current generally accepted practices and standards consistent with the level of care and skill exercised under similar circumstances by other professional consultants or firms performing the same or similar services. Differing conclusions about environmental features could be reached because the facts that form the basis for the report are subject to professional interpretation. Tetra Tech does not assume responsibility for the discovery and elimination of hazards that could cause accidents, injuries, or damage. Compliance with submitted recommendations or suggestions does not ensure that hazards will be eliminated or the City of Ann Arbor's obligations will be fulfilled under local, state, or federal laws or any modifications or changes to these laws. None of the work performed shall constitute or be represented as a legal opinion of any kind or nature, but shall be a representation of findings of fact from records examined.

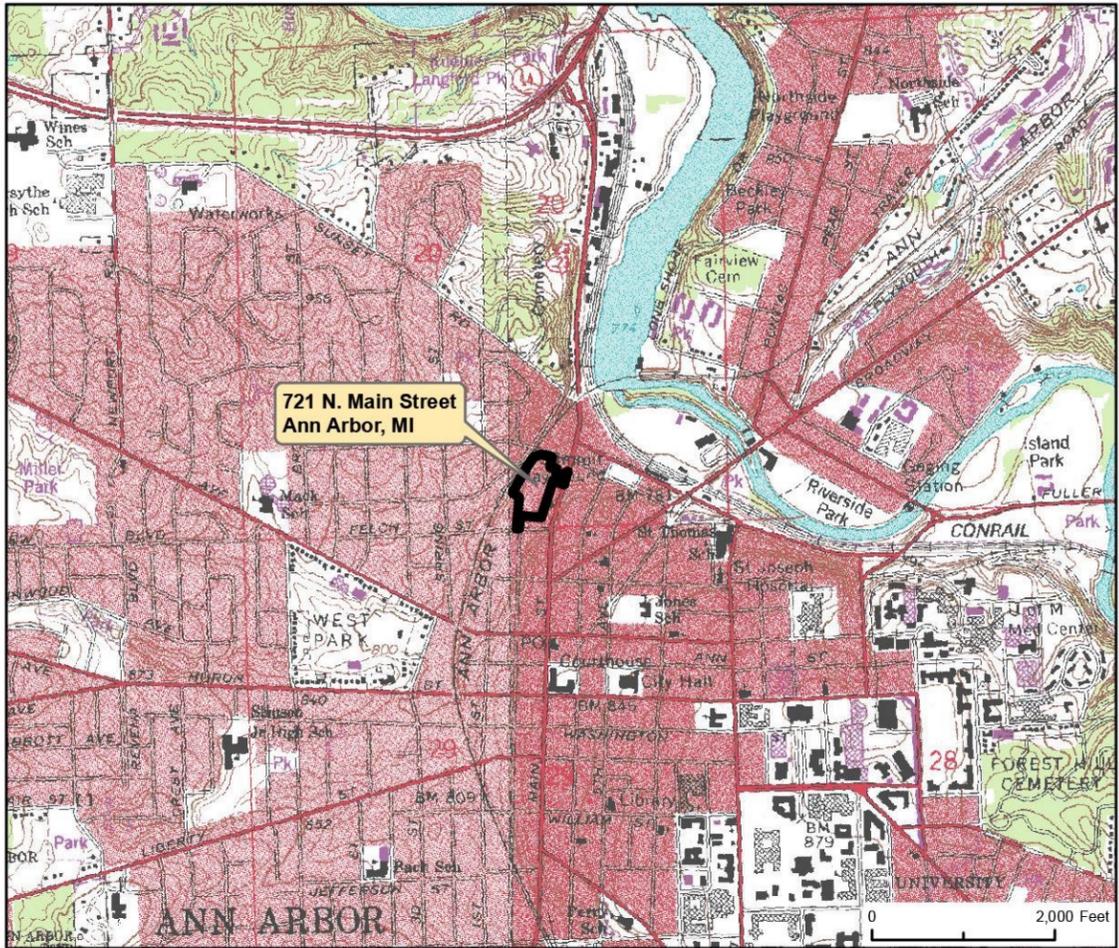
The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express written consent of the SGJJR, City of Ann Arbor or Tetra Tech. This report is partially based on information obtained from City of Ann Arbor files and personnel. Tetra Tech does not guarantee the authenticity or reliability of the information it has received from these sources.

## FIGURES

P:\Projects\Ann Arbor\721 North Main Street\GIS-data\Figure 1-Phase I.mxd

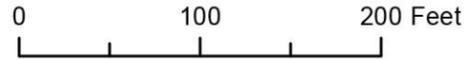


BASE MAP: GOOGLE EARTH SATELLITE IMAGERY



Legend:  
All of the following locations are approximate:  
(based on historical documents and site walk)

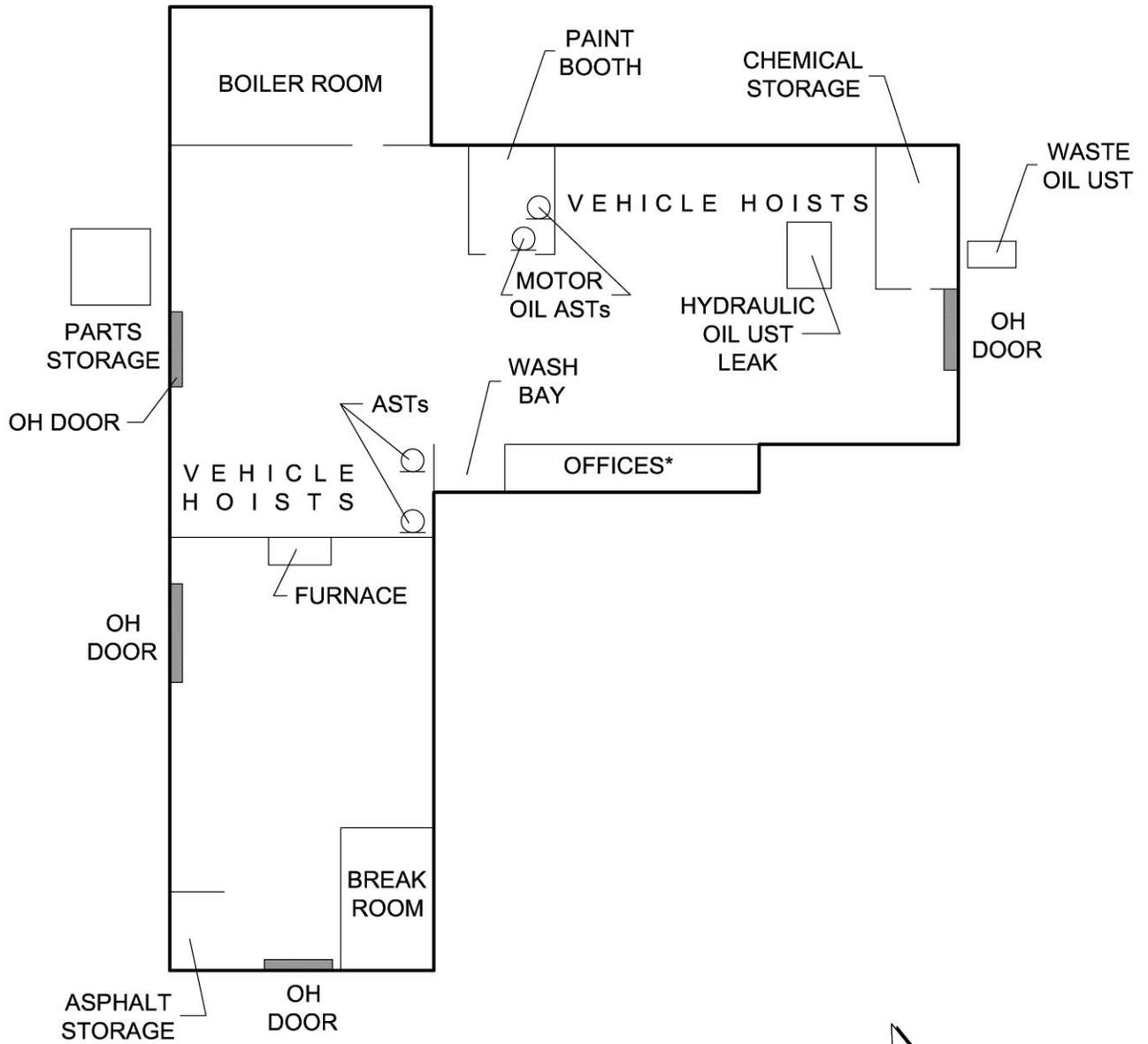
- Former UST/AST
- Former Fuel Dispenser
- Existing UST
- Existing Compressor
- Existing Dispenser
- Building Outline
- Area of Release
- Site Boundary
- Allen Creek
- Former Underground Piping



Notes:  
AARR = Ann Arbor Railroad  
AST = Aboveground Storage Tank  
CNG = Compressed Natural Gas  
UST = Underground Storage Tank  
  
Location of 16,000 gallon gasoline AST is estimated from 1972 Sanborn Map.  
Location of Allen Creek is approximate.  
Area of release from underground piping is estimated from historical reports.

	ORIGINAL BY: M. CAPODIVACCA
	DATE: 09/17/2012
	REVISED BY: A. RAUSS
	DATE: 10/15/2012

721 N. MAIN STREET  
PHASE I ESA  
ANN ARBOR, MICHIGAN  
  
SITE LOCATION AND LAYOUT MAP



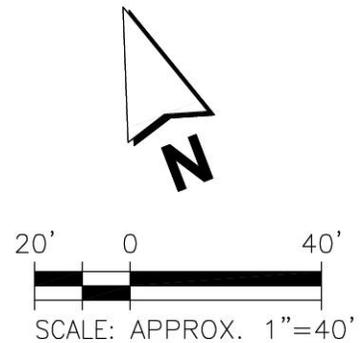
## NOTES

OH - OVERHEAD

AST - ABOVE-GROUND STORAGE TANK

UST - UNDERGROUND STORAGE TANK

\* - OFFICE AREA COMPRISED OF TWO FLOORS,  
REMAINDER OF BUILDING IS A SINGLE FLOOR ONLY.



PHASE I ESA  
721 N. MAIN STREET  
ANN ARBOR, MICHIGAN

FIGURE

2

## MAINTENANCE GARAGE SCHEMATIC

DESIGNED: DRB

DATE: 9/20/12



STATE OF MICHIGAN

IN THE CIRCUIT COURT FOR THE COUNTY OF WASHTENAW

JENNIFER M. GRANHOLM, Attorney  
General for the State of Michigan, *ex rel*,  
MICHIGAN DEPARTMENT OF  
ENVIRONMENTAL QUALITY,

Plaintiffs,

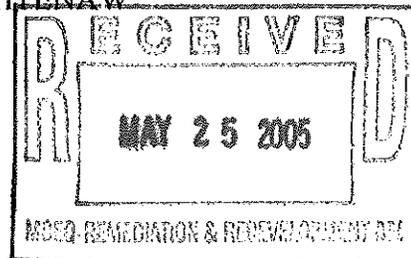
File No. 88-34734-CE

v

Honorable Donald E. Shelton

GELMAN SCIENCES, INC.,  
a Michigan corporation,

Defendant.



**ORDER PROHIBITING GROUNDWATER USE**

At a session of said Court held in the City of Ann Arbor, County of  
Washtenaw, Michigan, on the 17<sup>th</sup> day of May,  
2005.

PRESENT: HONORABLE DONALD E. SHELTON  
Circuit Court Judge

On December 17, 2004, this Court issued its Opinion and Order Regarding Remediation of the Contamination of the "Unit E" Aquifer. That Opinion and Order resolved a dispute between the Parties regarding the September 1, 2004 Decision Document issued by the Michigan Department of Environmental Quality (MDEQ) regarding remediation of the "Unit E" groundwater contamination emanating from the Pall Life Sciences (PLS) (formerly known as Gelman Sciences, Inc.) facility in Scio Township, Washtenaw County.

Among other things, this Court determined that in order to satisfy the requirements of MCL 324.20118(6)(d) and MCL 324.20120b(5) for institutional controls preventing

unacceptable exposure to 1,4-dioxane in the groundwater, it is necessary and appropriate to supplement the Washtenaw County Rules and Regulations for the Protection of Groundwater adopted February 4, 2004, with a legally enforceable order of this Court prohibiting certain groundwater uses in specifically defined areas and addressing the relevant conditions identified in the MDEQ's September 1, 2004 Decision Document.

ACCORDINGLY, pursuant to the December 17, 2004 Opinion and Order, based upon further information provided by the Parties, for the reasons stated by the Court in its May 4, 2005 ruling on Plaintiffs' Motion to Enter Order Prohibiting Groundwater Use, and in the exercise of this Court's statutory and inherent authority to enforce its orders and judgments,

IT IS HEREBY ORDERED:

1. The prohibitions imposed by this Order apply to the zone identified in the map attached hereto as Figure 1 (Prohibition Zone).
2. The installation by any person of a new water supply well in the Prohibition Zone for drinking, irrigation, commercial, or industrial use is prohibited.
3. The Washtenaw County Health Officer or any other entity authorized to issue well construction permits shall not issue a well construction permit for any well in the Prohibition Zone.
4. The consumption or use by any person of groundwater from the Prohibition Zone is prohibited.
5. The prohibitions listed in paragraphs 2, 3, and 4 do not apply to the installation and use of:

(a) groundwater extraction and monitoring wells as part of response activities approved by MDEQ or otherwise authorized under Parts 201 or 213 of NREPA, or other legal authority.

(b) dewatering wells for lawful construction or maintenance activities, provided that appropriate measures are taken to prevent unacceptable human or environmental exposures to hazardous substances and comply with MCL 324.20107a.

(c) wells supplying heat pump systems that either operate in a closed loop system, or if not, are demonstrated to operate in a manner sufficient to prevent unacceptable human or environmental exposures to hazardous substances and comply with MCL 324.20107a.

(d) emergency measures necessary to protect public health, safety, welfare or the environment.

(e) any existing water supply well that has been demonstrated, on a case-by-case basis and with the written approval of the MDEQ, to draw water from a formation that is not likely to become contaminated with 1,4-dioxane emanating from the PLS facility. Such wells shall be monitored for 1,4-dioxane by PLS at a frequency determined by the MDEQ.

6. PLS shall provide, at its expense, connection to the City of Ann Arbor municipal water supply to replace any existing private drinking water wells within the Prohibition Zone. Within thirty (30) days after entry of this Order, PLS shall submit to MDEQ for review and approval a work plan for identifying, or verifying the absence of, any private wells within the Prohibition Zone, for the abandonment of any such private wells and for replacement of private drinking water wells with connection to the municipal water supply. Well abandonment and replacement shall be performed in accordance with all applicable regulations and procedures at the expense of PLS. PLS shall implement the work plan and schedule approved by MDEQ.

7. This Order shall be published and maintained in the same manner as a zoning ordinance.

8. This Order shall remain in effect in this form until such time as it is amended or rescinded by further order of this Court, with a minimum of thirty (30) days prior notice to all Parties.

9. Either Party may move to amend the boundaries of the Prohibition Zone to reflect material changes in the boundaries or fate of the groundwater contamination plume as described by future hydrogeological investigation or MDEQ approved monitoring of the fate of the groundwater contamination.

10. In the event the boundary of the Prohibition Zone is expanded, PLS shall, within thirty (30) days after entry of such an Order, submit to the MDEQ for review and approval, a work plan for identifying, or verifying the absence of any private wells within the modified Prohibition Zone, for the abandonment of any such private wells, and for the connection to the municipal water supply to replace any drinking water wells within the modified Prohibition Zone.

11. Either Party or a local unit of government having jurisdiction within the Prohibition Zone may seek enforcement of this Order by the Court.

12. This Order shall not affect the rights, liabilities, or defenses of any party in any other legal or administrative proceeding, nor shall it constitute evidence of either the presence or absence of 1,4-dioxane at any location inside or outside the Prohibition Zone in any such proceeding.

/s/DONALD E. SHELTON

---

HONORABLE DONALD E. SHELTON  
Circuit Court Judge

APPROVED AS TO FORM:

*Robert P. Reichel*

---

Robert P. Reichel (P31878)  
Assistant Attorney General  
Attorney for Plaintiffs

*Michael L. Caldwell by PPR*

---

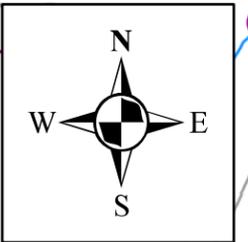
Michael L. Caldwell (P40554)  
Alan D. Wasserman (P39509)  
Attorneys for Defendant

*with  
consent*

Gelman/1989001467/Order3

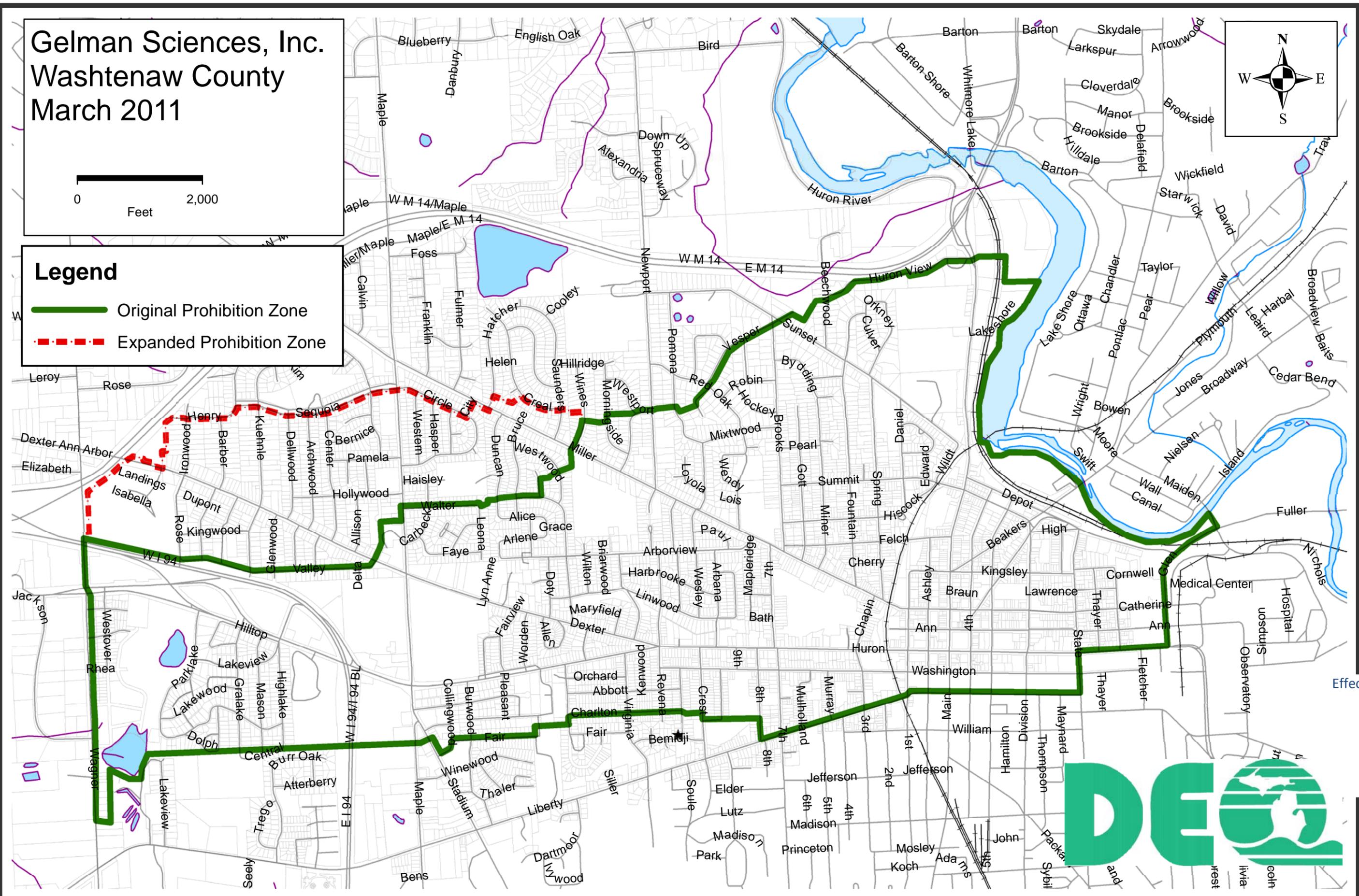


# Gelman Sciences, Inc. Washtenaw County March 2011



## Legend

- Original Prohibition Zone
- Expanded Prohibition Zone



Effective 3/8/2011



**APPENDIX E**  
**Aerial Photographs**



**123 W. Summit**

123 W. Summit

Ann Arbor, MI 48103

Inquiry Number: 7614445.18

April 04, 2024

# 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)

# EDR Aerial Photo Decade Package

04/04/24

**Site Name:**

123 W. Summit  
 123 W. Summit  
 Ann Arbor, MI 48103  
 EDR Inquiry # 7614445.18

**Client Name:**

Environmental Consulting Solutions, LLC  
 523 W. Sunnybrook Drive  
 Royal Oak, MI 48073  
 Contact: Julie Pratt



Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

**Search Results:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
2020	1"=500'	Flight Year: 2020	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2000	1"=500'	Acquisition Date: January 01, 2000	USGS/DOQQ
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
1993	1"=500'	Flight Date: April 23, 1993	USDA
1992	1"=500'	Acquisition Date: January 01, 1992	USGS/DOQQ
1987	1"=500'	Flight Date: June 05, 1987	USDA
1983	1"=500'	Flight Date: May 10, 1983	USDA
1978	1"=500'	Flight Date: June 28, 1978	USDA
1973	1"=500'	Flight Date: December 01, 1973	USGS
1969	1"=500'	Flight Date: March 19, 1969	USDA
1962	1"=500'	Flight Date: April 18, 1962	DTE
1955	1"=500'	Flight Date: September 06, 1955	USDA
1949	1"=500'	Flight Date: April 29, 1949	DTE
1940	1"=500'	Flight Date: October 09, 1940	USDA
1937	1"=500'	Flight Date: July 05, 1937	USDA

**When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.**

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT.

ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.

Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2024 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.



INQUIRY #: 7614445.18

YEAR: 2020

— = 500'





INQUIRY #: 7614445.18

YEAR: 2016

— = 500'



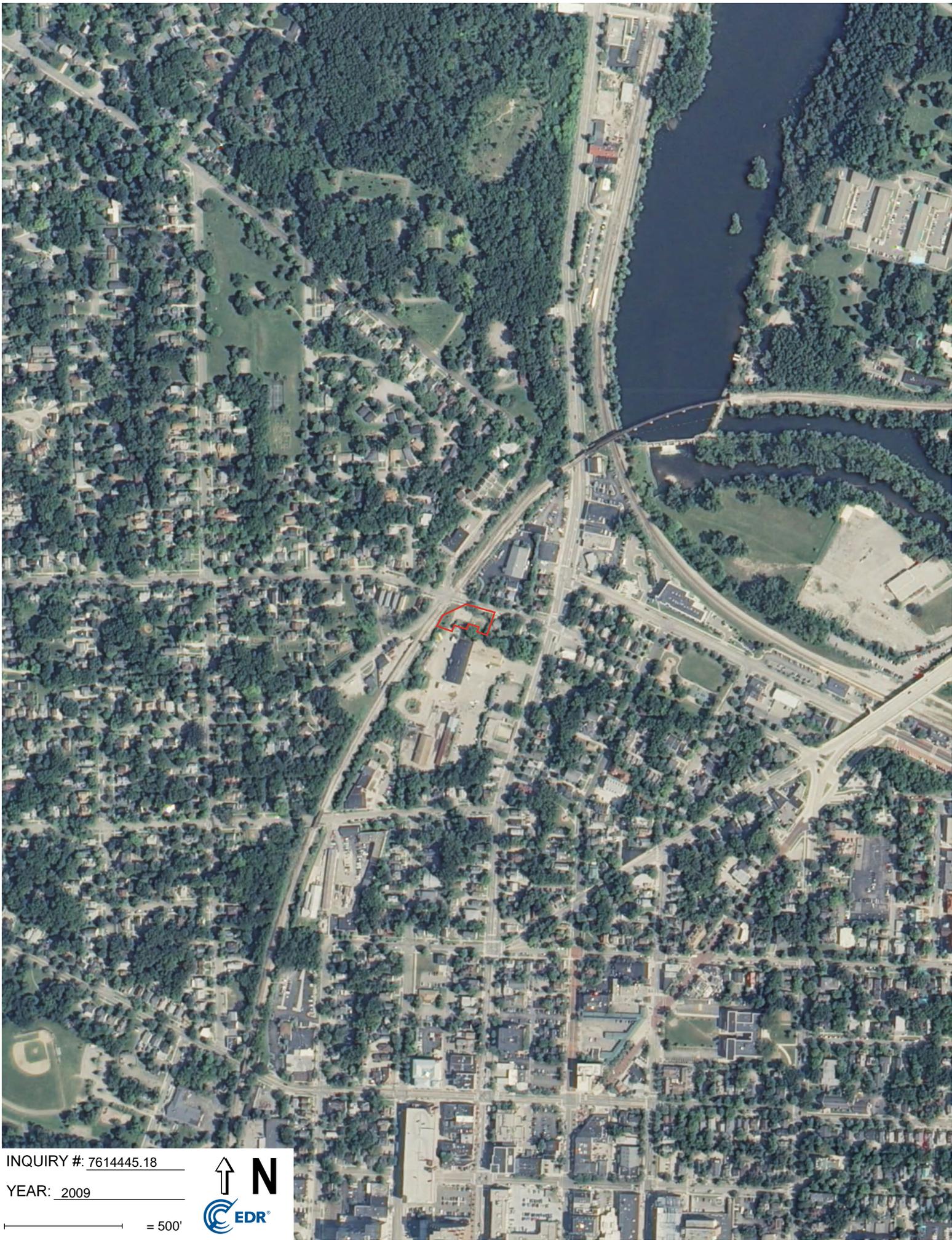


INQUIRY #: 7614445.18

YEAR: 2012

— = 500'





INQUIRY #: 7614445.18

YEAR: 2009

— = 500'





INQUIRY #: 7614445.18

YEAR: 2006

— = 500'





INQUIRY #: 7614445.18

YEAR: 2000

— = 500'







INQUIRY #: 7614445.18

YEAR: 1993

— = 500'







INQUIRY #: 7614445.18

YEAR: 1987

— = 500'





INQUIRY #: 7614445.18

YEAR: 1983

— = 500'





INQUIRY #: 7614445.18

YEAR: 1978

— = 500'





INQUIRY #: 7614445.18

YEAR: 1973

— = 500'





INQUIRY #: 7614445.18

YEAR: 1969

— = 500'





INQUIRY #: 7614445.18

YEAR: 1962

— = 500'





INQUIRY #: 7614445.18

YEAR: 1955

— = 500'





INQUIRY #: 7614445.18

YEAR: 1949

— = 500'





INQUIRY #: 7614445.18

YEAR: 1940

— = 500'





INQUIRY #: 7614445.18

YEAR: 1937

— = 500'



**APPENDIX F**  
**Historical Topographic Maps**

123 W. Summit

123 W. Summit

Ann Arbor, MI 48103

Inquiry Number: 7614445.13

April 04, 2024

# EDR Historical Topo Map Report

with QuadMatch™



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

# EDR Historical Topo Map Report

04/04/24

**Site Name:**

123 W. Summit  
123 W. Summit  
Ann Arbor, MI 48103  
EDR Inquiry # 7614445.13

**Client Name:**

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073  
Contact: Julie Pratt



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Environmental Consulting Solutions, LLC were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

**Search Results:****Coordinates:**

<b>P.O.#</b>	NA	<b>Latitude:</b>	42.288514 42° 17' 19" North
<b>Project:</b>	A121-0001-04	<b>Longitude:</b>	-83.748532 -83° 44' 55" West
		<b>UTM Zone:</b>	Zone 17 North
		<b>UTM X Meters:</b>	273395.89
		<b>UTM Y Meters:</b>	4685469.05
		<b>Elevation:</b>	791.68' above sea level

**Maps Provided:**

2019	1906
2017	1904
2014	1902
1983	
1978	
1973	
1965	
1908	

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2024 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

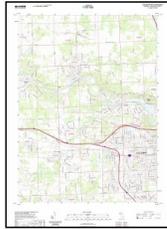
## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 2019 Source Sheets



Ann Arbor East  
2019  
7.5-minute, 24000



Ann Arbor West  
2019  
7.5-minute, 24000

### 2017 Source Sheets



Ann Arbor East  
2017  
7.5-minute, 24000



Ann Arbor West  
2017  
7.5-minute, 24000

### 2014 Source Sheets

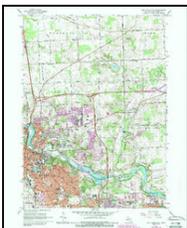


Ann Arbor East  
2014  
7.5-minute, 24000

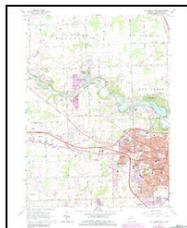


Ann Arbor West  
2014  
7.5-minute, 24000

### 1983 Source Sheets



Ann Arbor East  
1983  
7.5-minute, 24000  
Aerial Photo Revised 1983

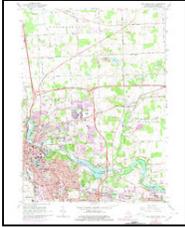


Ann Arbor West  
1983  
7.5-minute, 24000  
Aerial Photo Revised 1982

## Topo Sheet Key

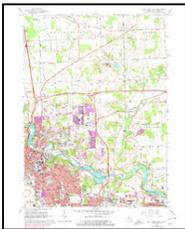
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1978 Source Sheets



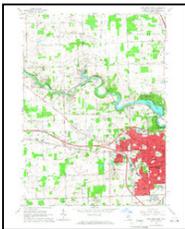
Ann Arbor East  
1978  
7.5-minute, 24000  
Aerial Photo Revised 1973

### 1973 Source Sheets

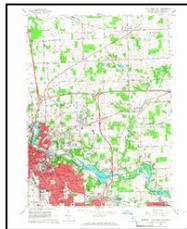


Ann Arbor East  
1973  
7.5-minute, 24000  
Aerial Photo Revised 1973

### 1965 Source Sheets



Ann Arbor West  
1965  
7.5-minute, 24000  
Aerial Photo Revised 1964



Ann Arbor East  
1965  
7.5-minute, 24000  
Aerial Photo Revised 1964

### 1908 Source Sheets



Ann Arbor  
1908  
30-minute, 125000

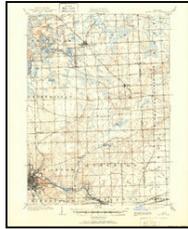
## Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

### 1906 Source Sheets



Dexter  
1906  
15-minute, 62500



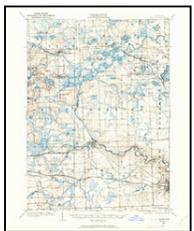
South Lyon  
1906  
15-minute, 62500

### 1904 Source Sheets



Ann Arbor  
1904  
30-minute, 125000

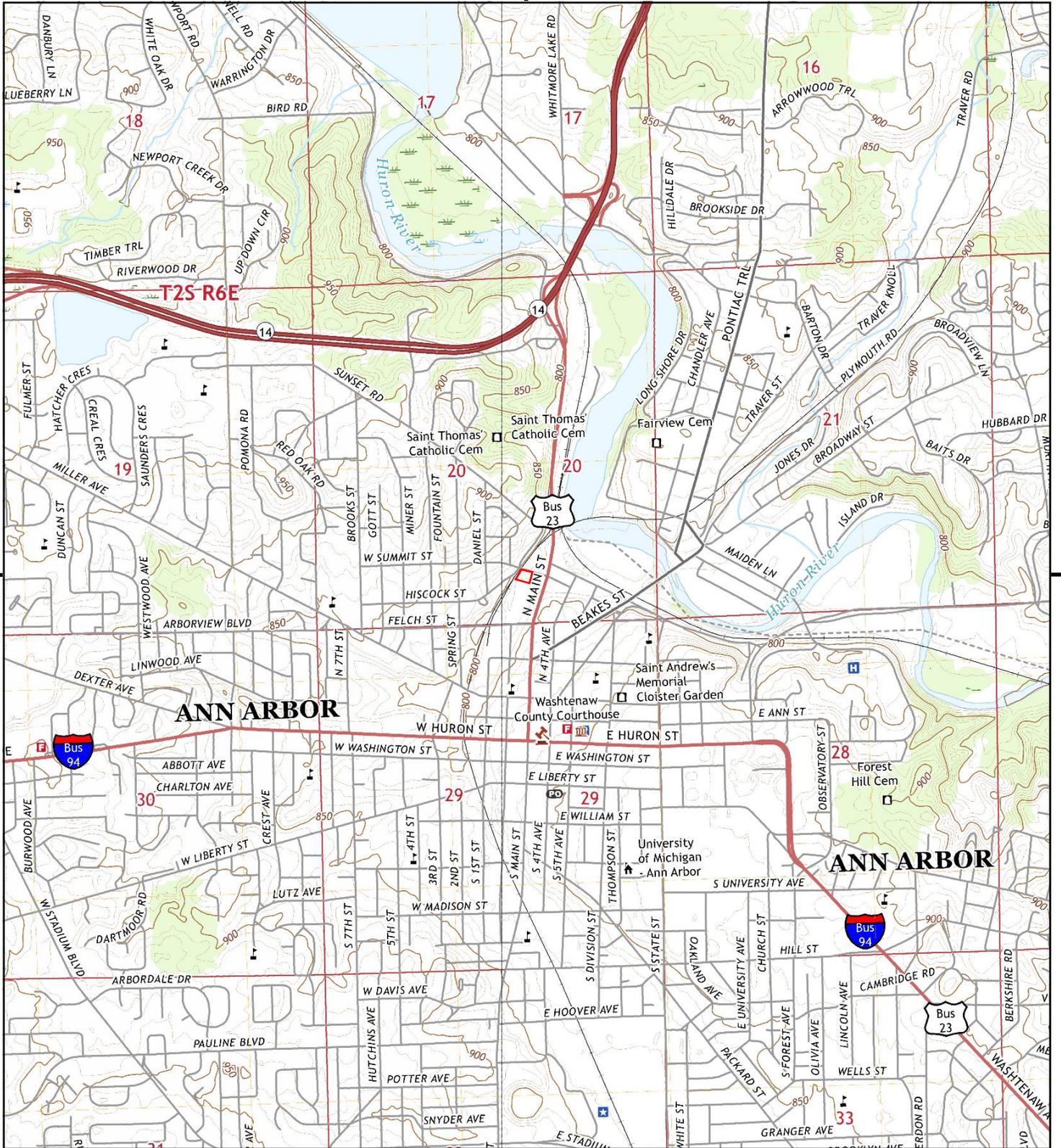
### 1902 Source Sheets



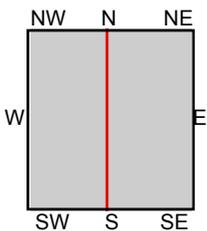
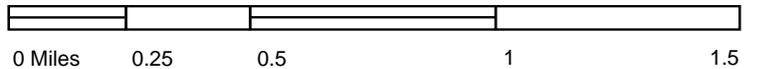
Dexter  
1902  
15-minute, 62500



South Lyon  
1902  
15-minute, 62500



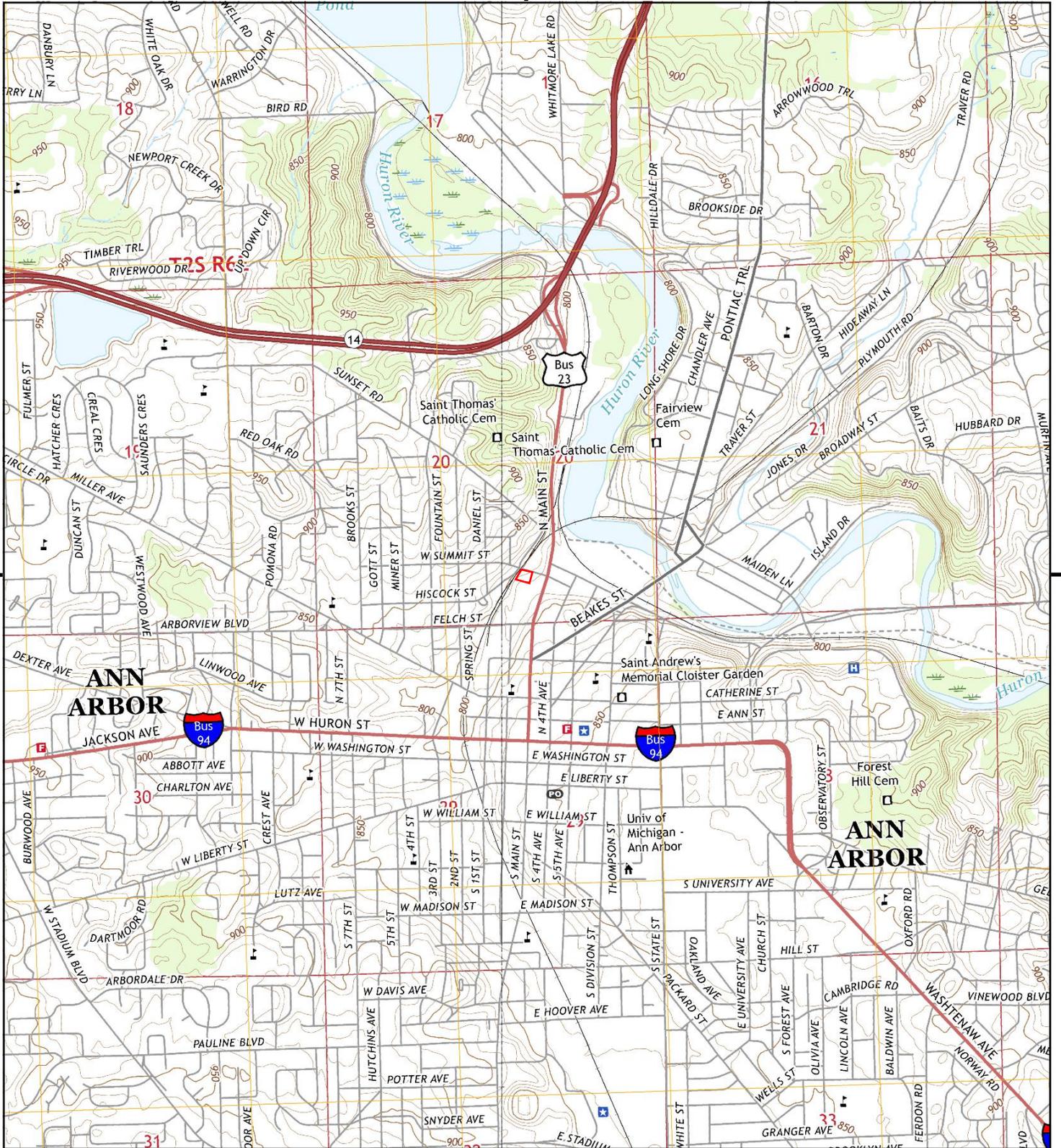
This report includes information from the following map sheet(s).



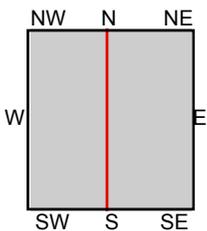
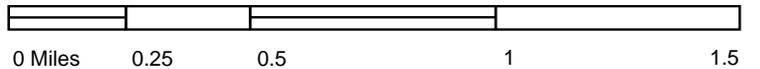
TP, Ann Arbor East, 2019, 7.5-minute  
 NW, Ann Arbor West, 2019, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





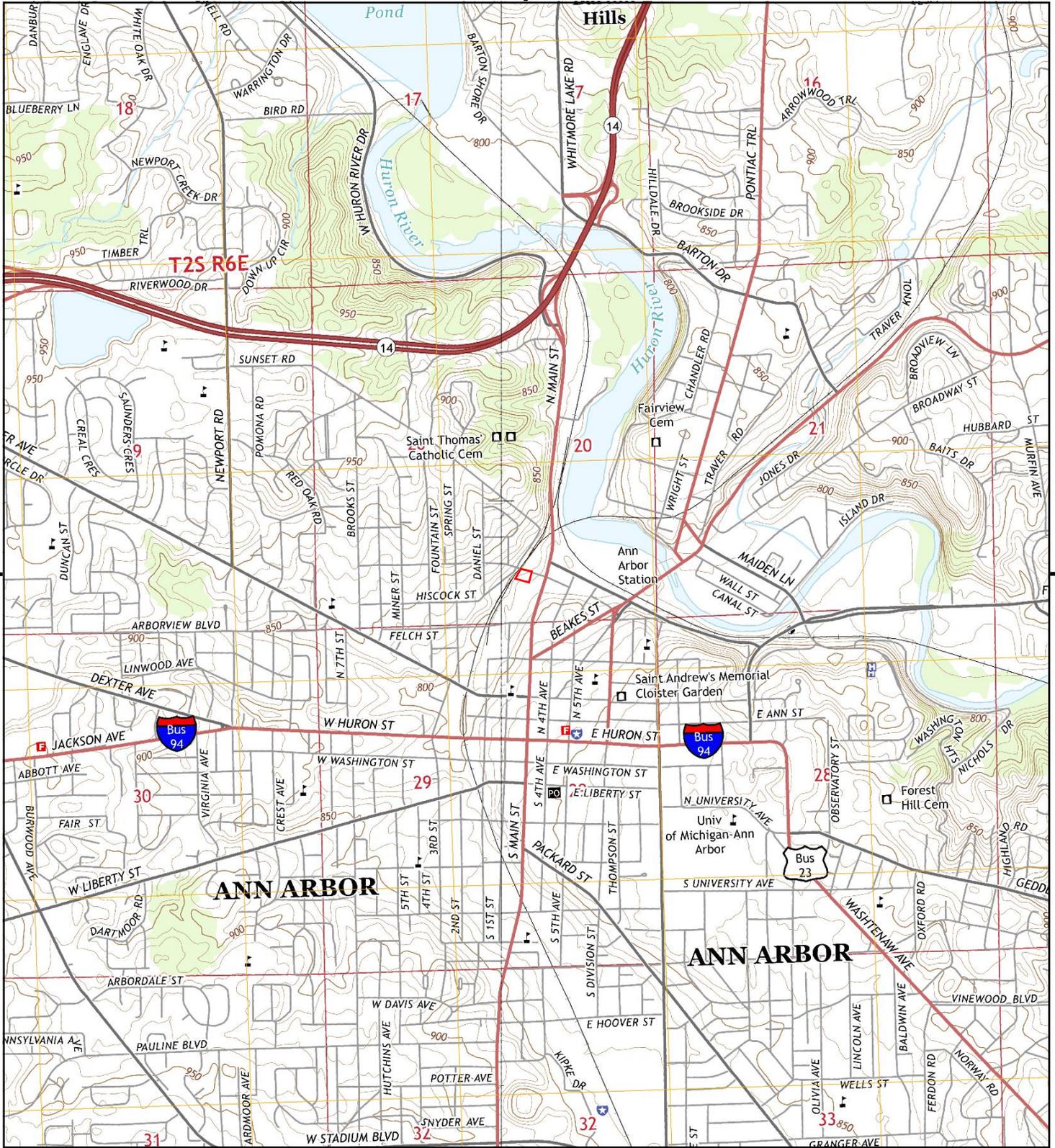
This report includes information from the following map sheet(s).



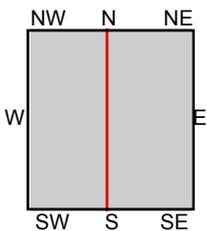
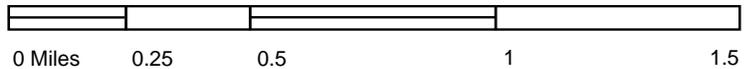
TP, Ann Arbor East, 2017, 7.5-minute  
 NW, Ann Arbor West, 2017, 7.5-minute

**SITE NAME:** 123 W. Summit  
**ADDRESS:** 123 W. Summit  
 Ann Arbor, MI 48103  
**CLIENT:** Environmental Consulting Solutions, LLC





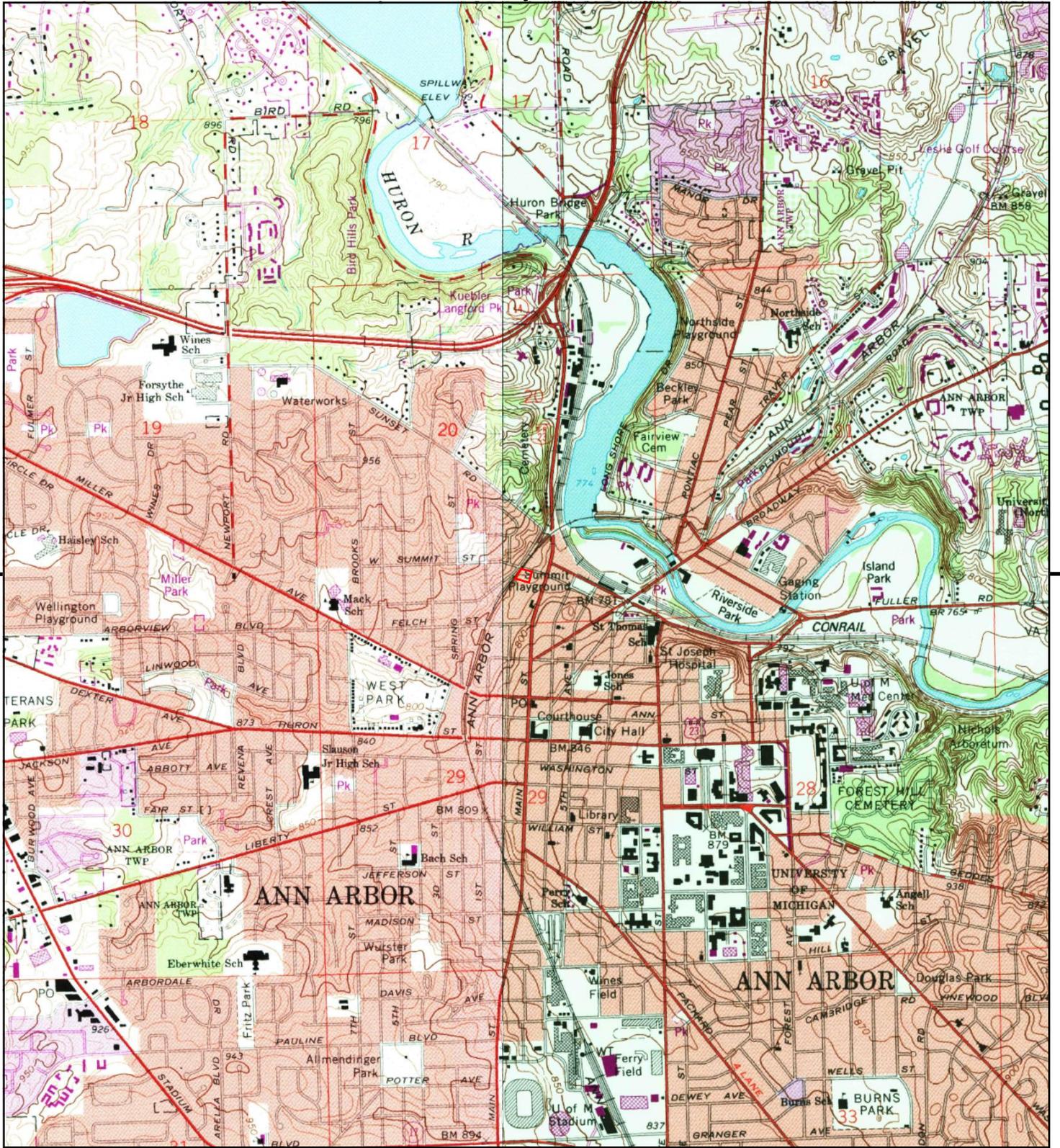
This report includes information from the following map sheet(s).



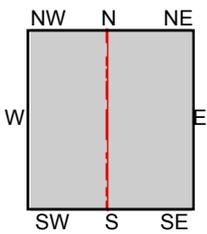
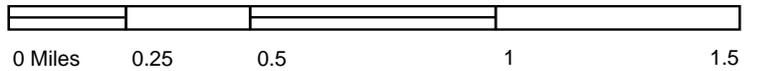
TP, Ann Arbor East, 2014, 7.5-minute  
 NW, Ann Arbor West, 2014, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





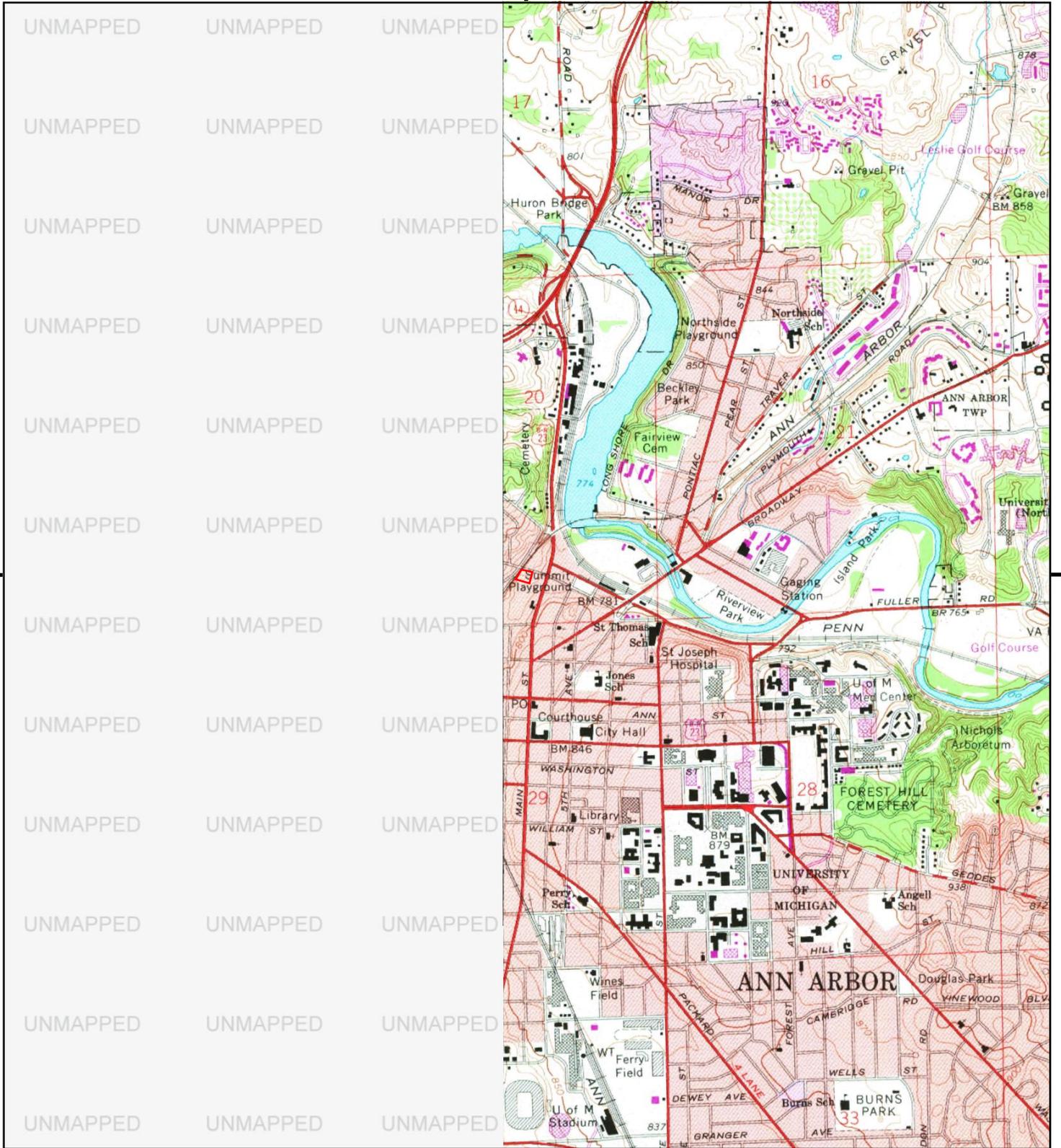
This report includes information from the following map sheet(s).



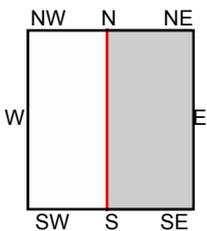
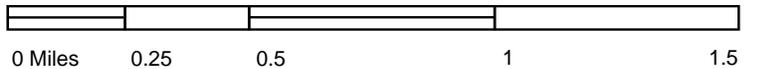
TP, Ann Arbor East, 1983, 7.5-minute  
 NW, Ann Arbor West, 1983, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





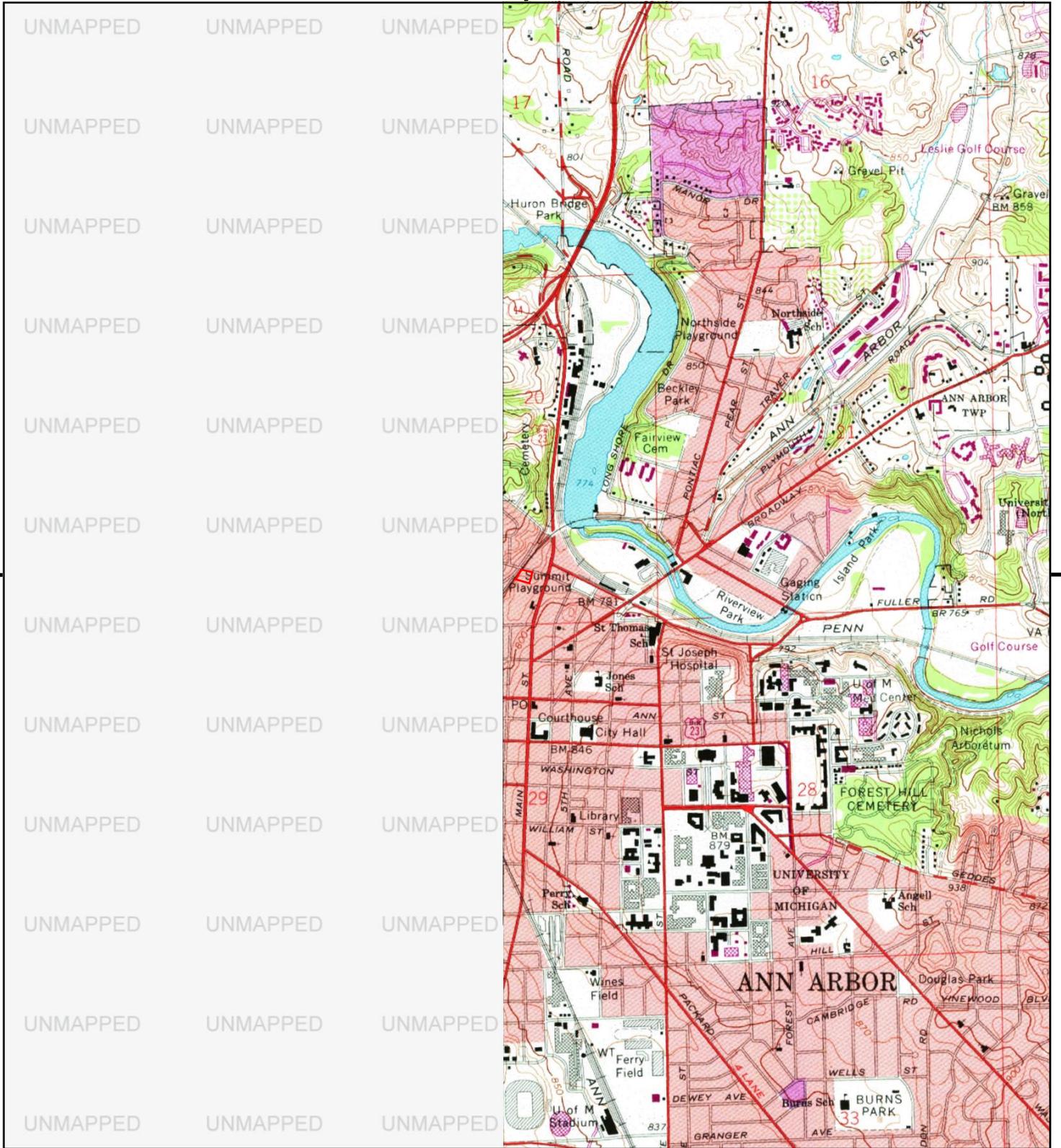
This report includes information from the following map sheet(s).



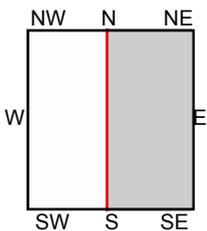
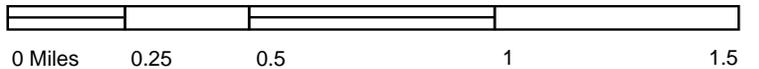
TP, Ann Arbor East, 1978, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





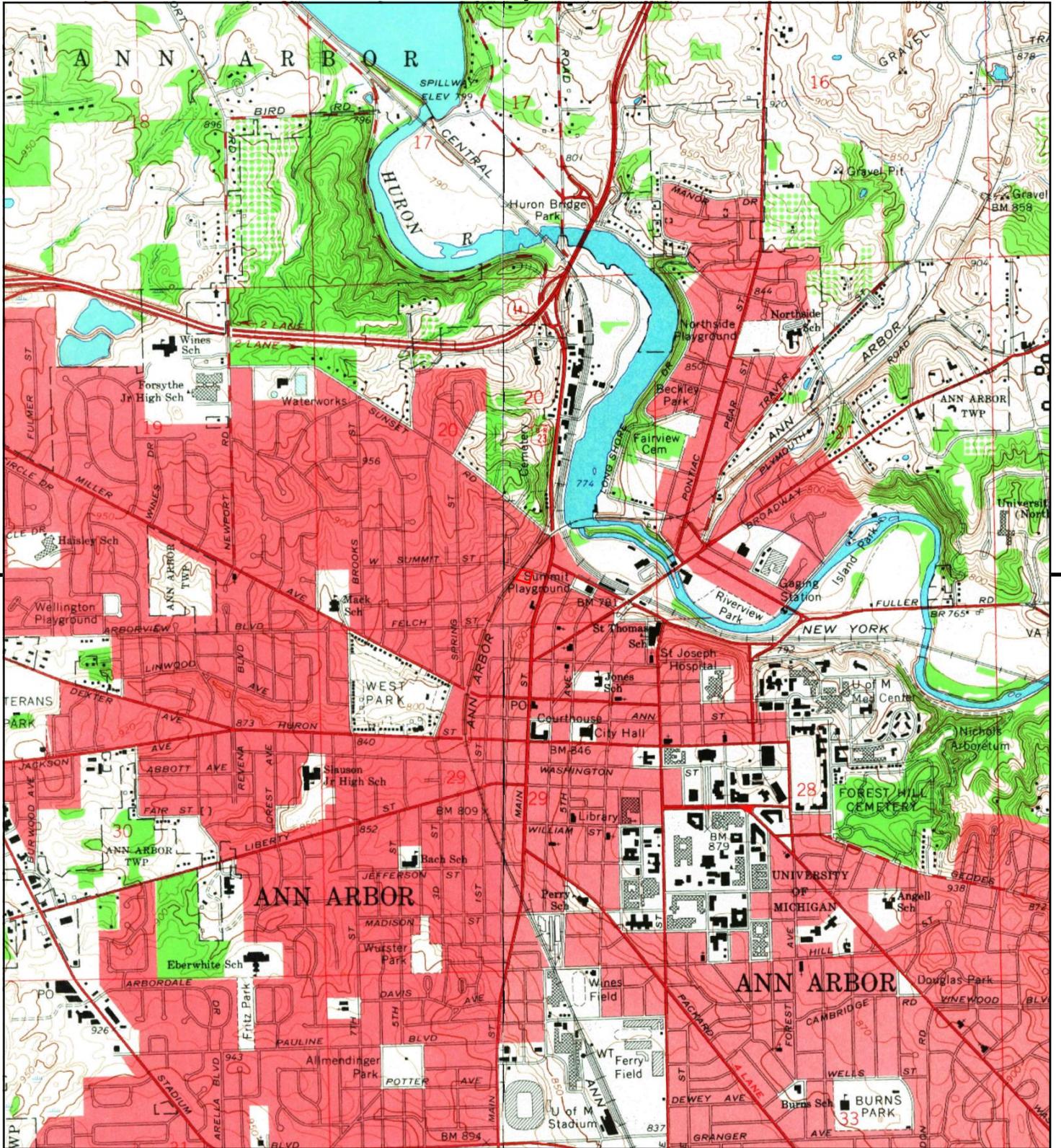
This report includes information from the following map sheet(s).



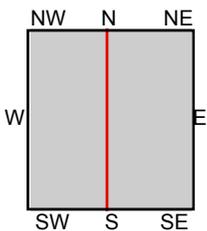
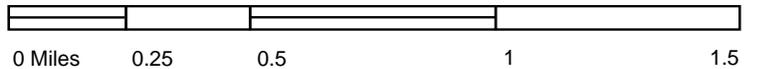
TP, Ann Arbor East, 1973, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





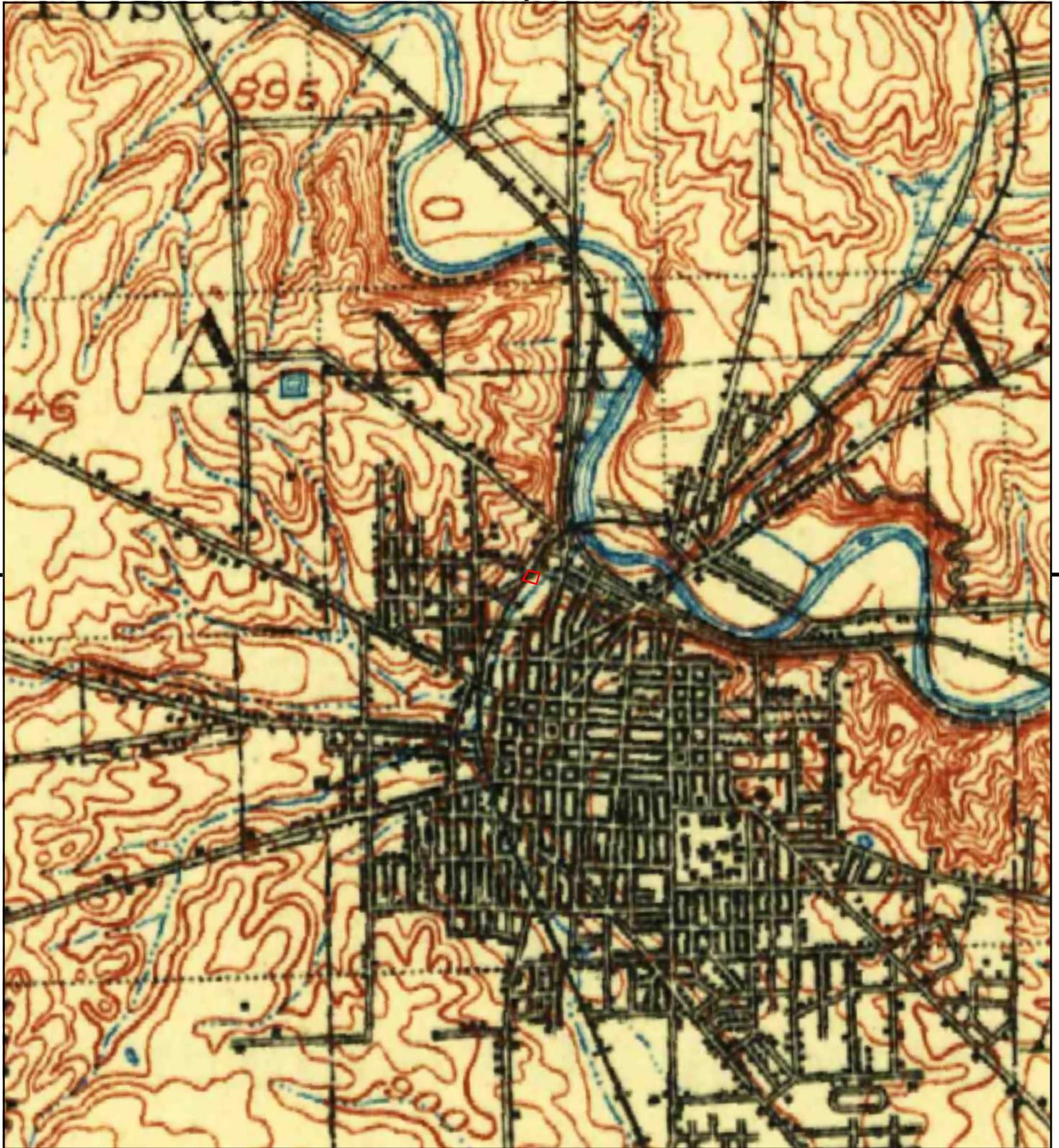
This report includes information from the following map sheet(s).



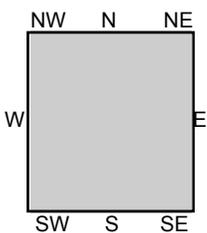
TP, Ann Arbor East, 1965, 7.5-minute  
 NW, Ann Arbor West, 1965, 7.5-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





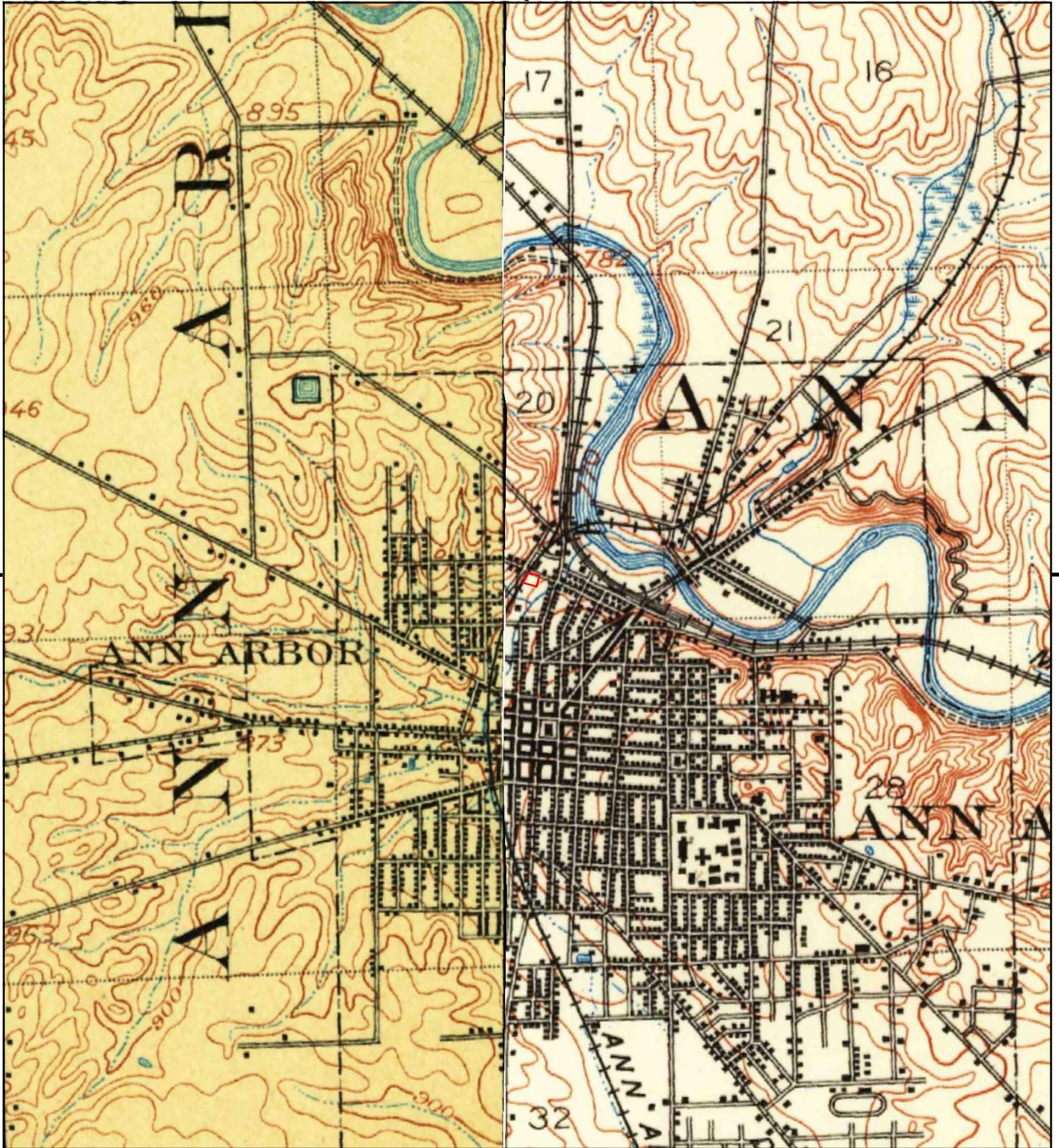
This report includes information from the following map sheet(s).



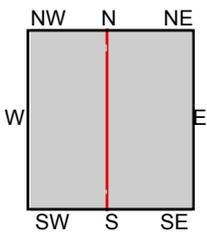
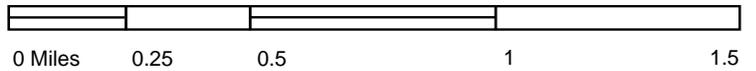
TP, Ann Arbor, 1908, 30-minute

SITE NAME: 123 W. Summit  
ADDRESS: 123 W. Summit  
Ann Arbor, MI 48103  
CLIENT: Environmental Consulting Solutions, LLC





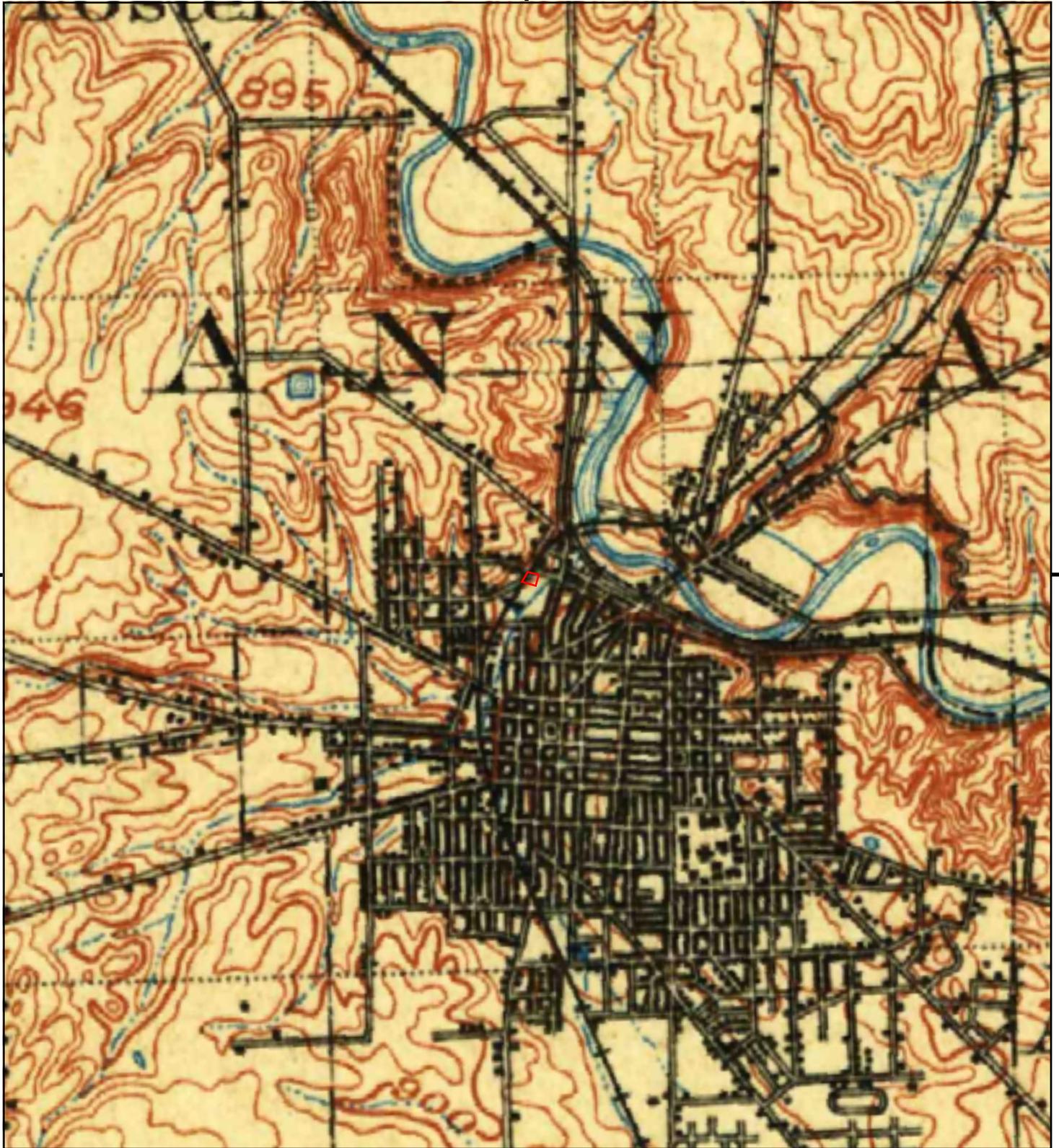
This report includes information from the following map sheet(s).



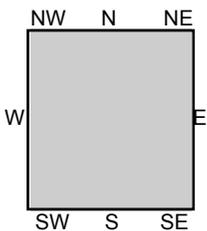
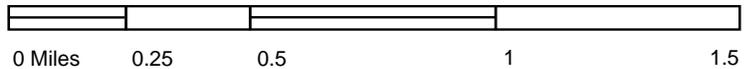
TP, South Lyon, 1906, 15-minute  
 NW, Dexter, 1906, 15-minute

SITE NAME: 123 W. Summit  
 ADDRESS: 123 W. Summit  
 Ann Arbor, MI 48103  
 CLIENT: Environmental Consulting Solutions, LLC





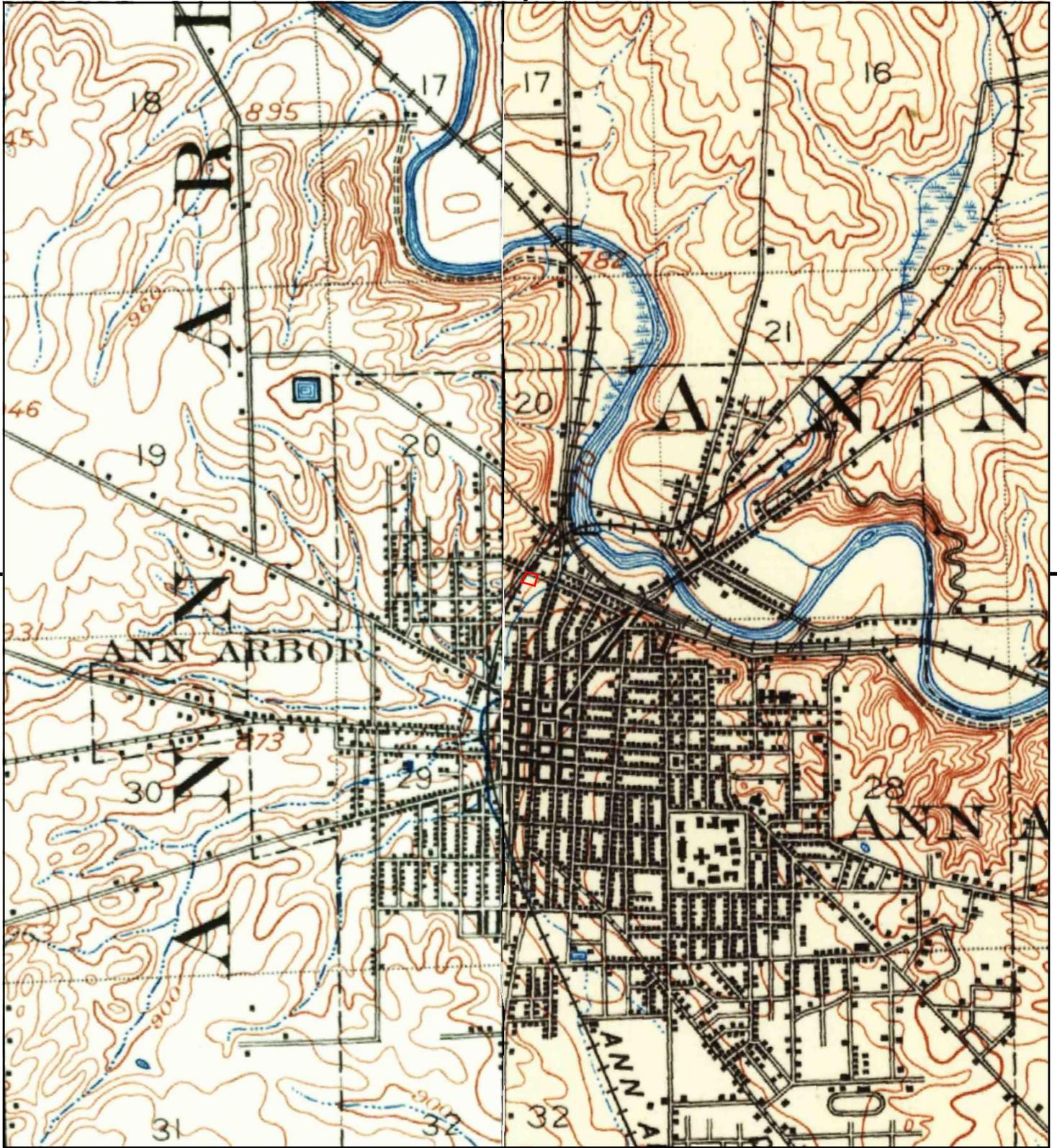
This report includes information from the following map sheet(s).



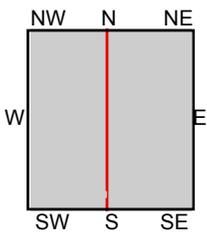
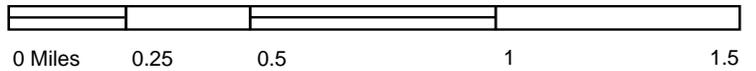
TP, Ann Arbor, 1904, 30-minute

SITE NAME: 123 W. Summit  
ADDRESS: 123 W. Summit  
Ann Arbor, MI 48103  
CLIENT: Environmental Consulting Solutions, LLC





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



TP, South Lyon, 1902, 15-minute  
NW, Dexter, 1902, 15-minute

SITE NAME: 123 W. Summit  
ADDRESS: 123 W. Summit  
Ann Arbor, MI 48103  
CLIENT: Environmental Consulting Solutions, LLC



**APPENDIX G**

**Sanborn Fire Insurance Maps**

123 W. Summit

123 W. Summit

Ann Arbor, MI 48103

Inquiry Number: 7614445.12

April 04, 2024

## 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

04/04/24

**Site Name:**

123 W. Summit  
123 W. Summit  
Ann Arbor, MI 48103  
EDR Inquiry # 7614445.12

**Client Name:**

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073  
Contact: Julie Pratt



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Environmental Consulting Solutions, LLC were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn).

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

**Certified Sanborn Results:**

**Certification #** 43E7-49D1-A071

**PO #** NA

**Project** A121-0001-04

**Maps Provided:**

1972	1888
1948	
1931	
1925	
1916	
1908	
1899	
1892	



Sanborn® Library search results

Certification #: 43E7-49D1-A071

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- Library of Congress
- University Publications of America
- EDR Private Collection

*The Sanborn Library LLC Since 1866™*

**Limited Permission To Make Copies**

Environmental Consulting Solutions, LLC (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

**Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT. Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2024 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

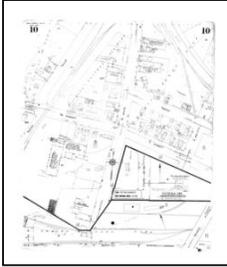
EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



### 1972 Source Sheets



Volume 1, Sheet 10  
1972



Volume 1, Sheet 14  
1972

### 1948 Source Sheets



Volume 1, Sheet 10  
1948

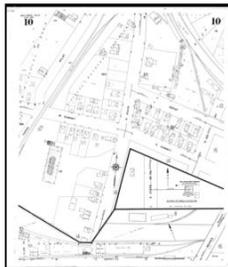


Volume 1, Sheet 14  
1948

### 1931 Source Sheets



Volume 1, Sheet 14  
1931



Volume 1, Sheet 10  
1931

### 1925 Source Sheets



Volume 1, Sheet 13  
1925



Volume 1, Sheet 12  
1925

**Sanborn Sheet Key**

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



**1916 Source Sheets**



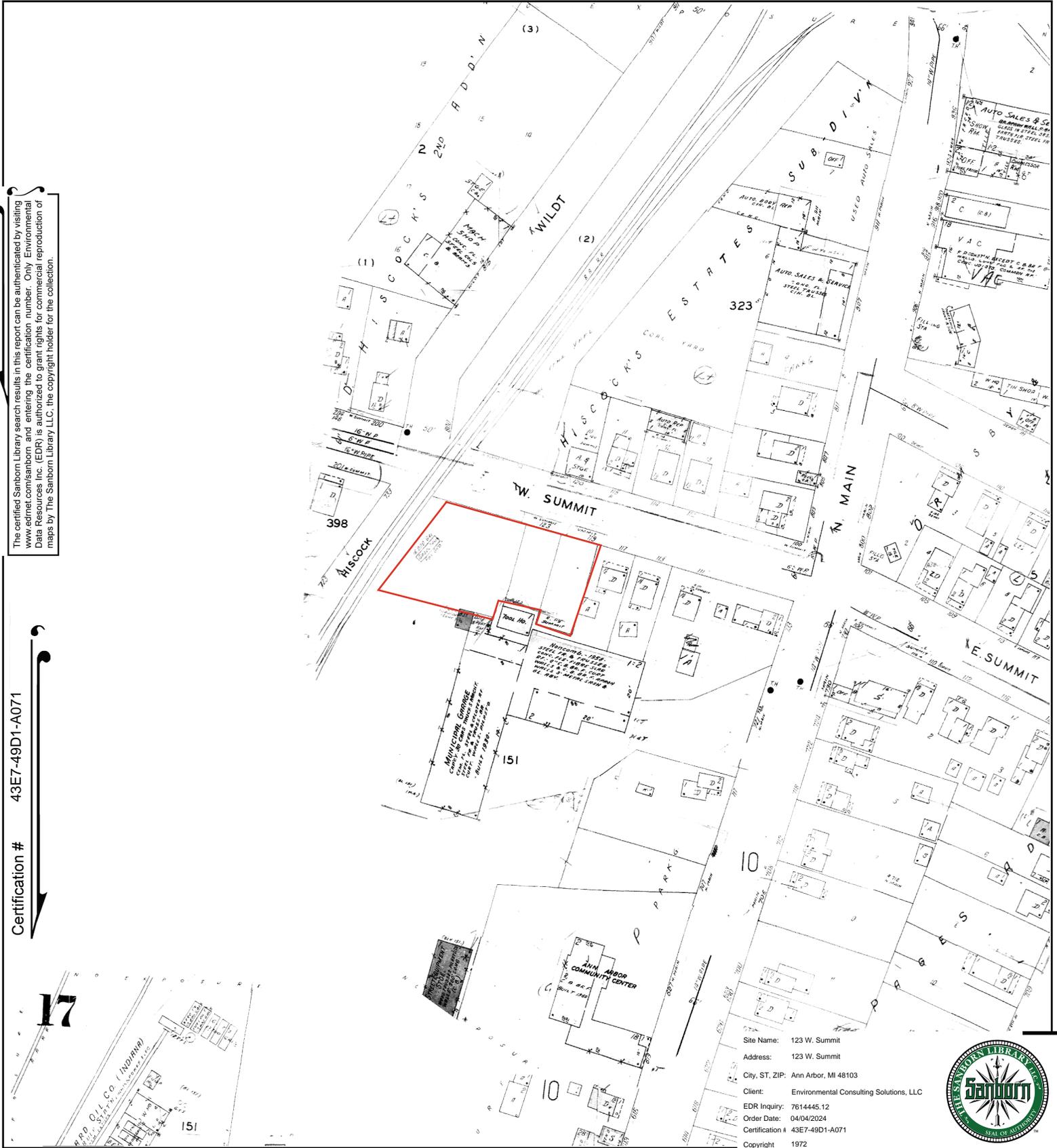
Volume 1, Sheet 3  
1916



Volume 1, Sheet 2  
1916

The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrmet.com/sanborn](http://www.edrmet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

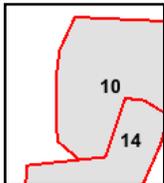
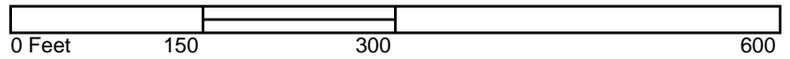
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1972



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

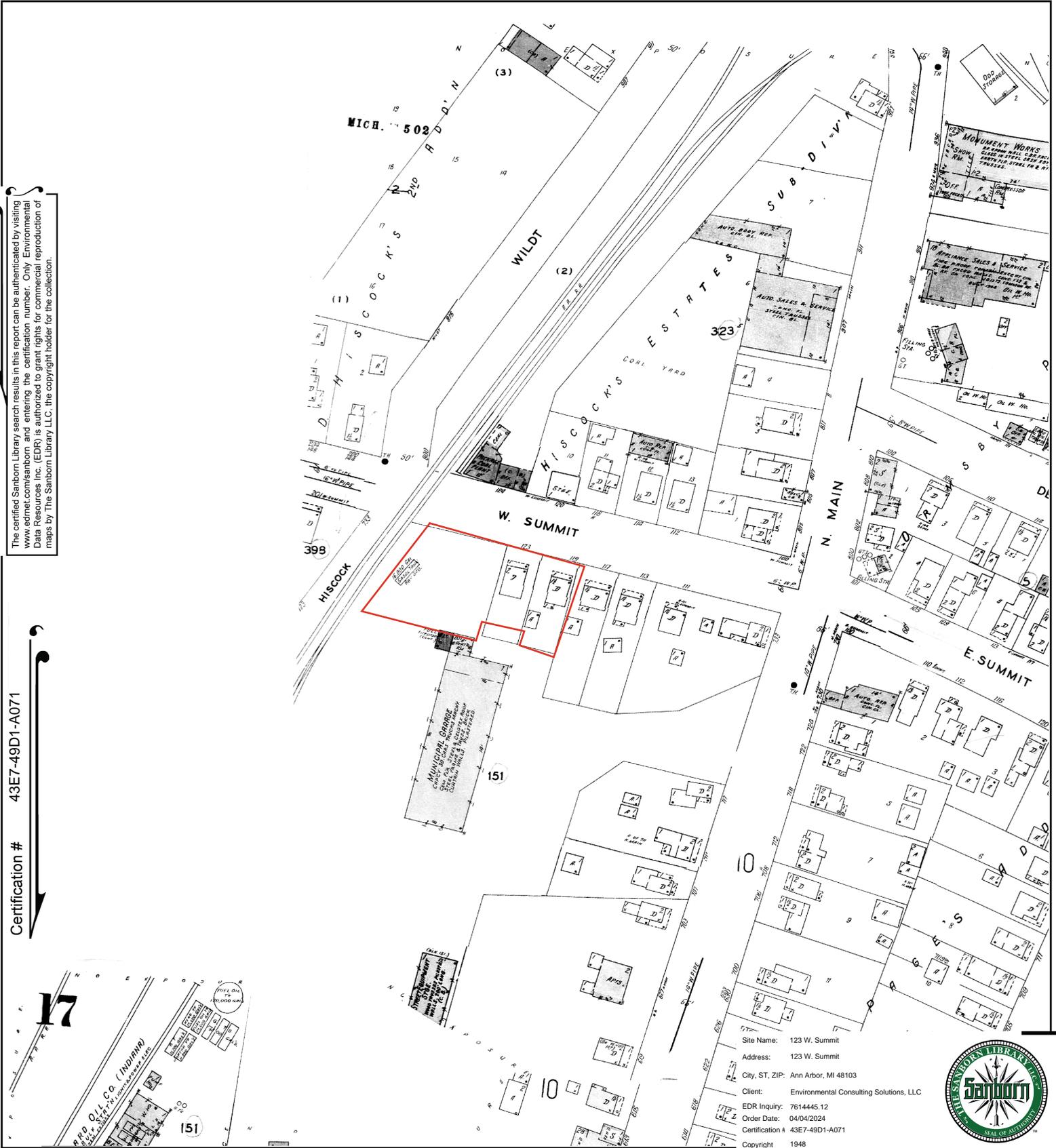


Volume 1, Sheet 14  
 Volume 1, Sheet 10



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

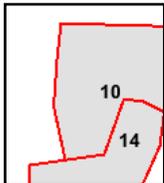
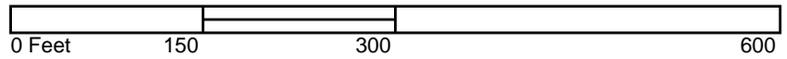
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1948



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

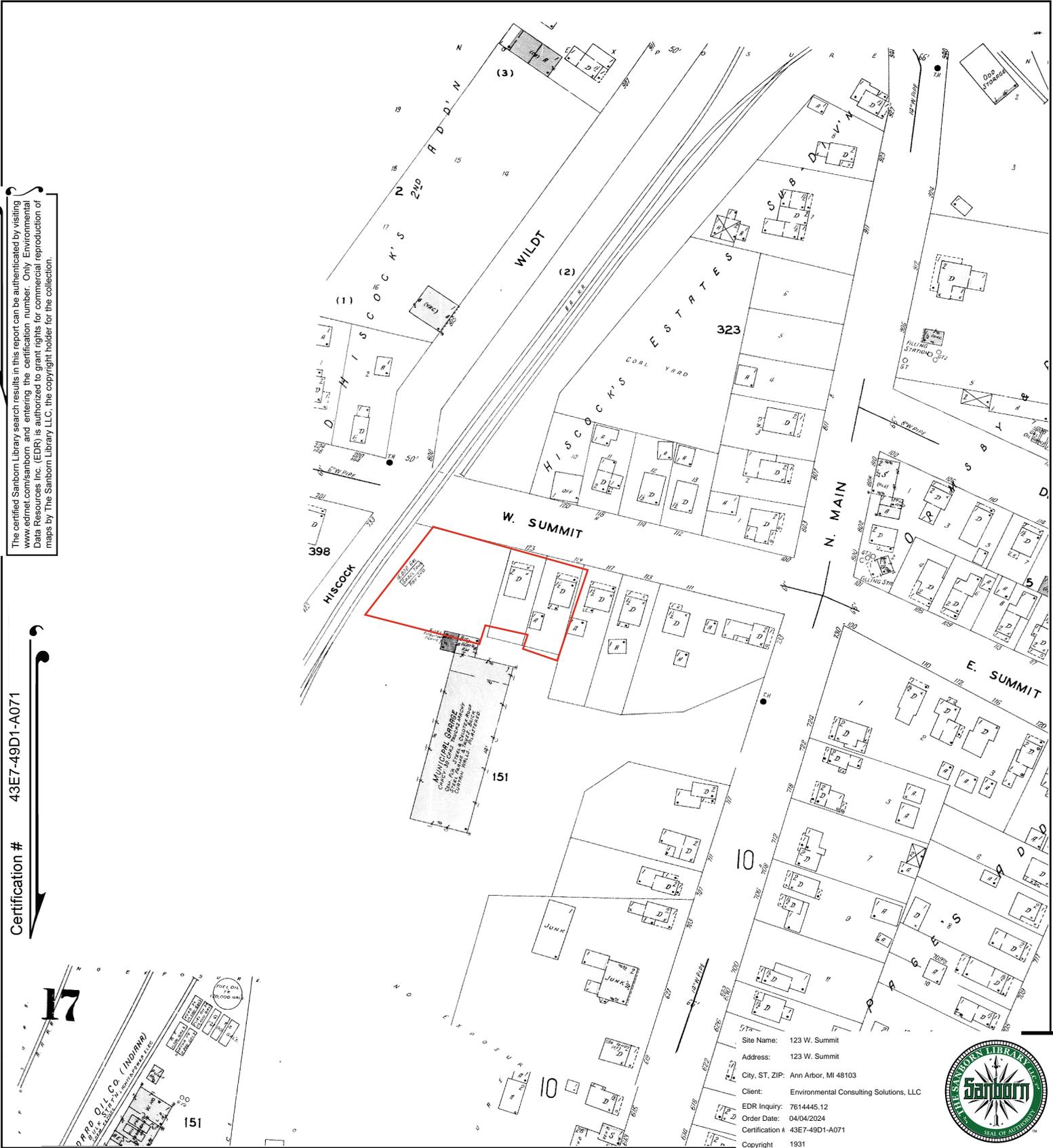


Volume 1, Sheet 14  
 Volume 1, Sheet 10



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

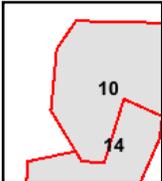
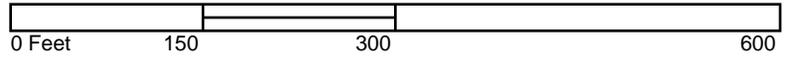
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1931



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

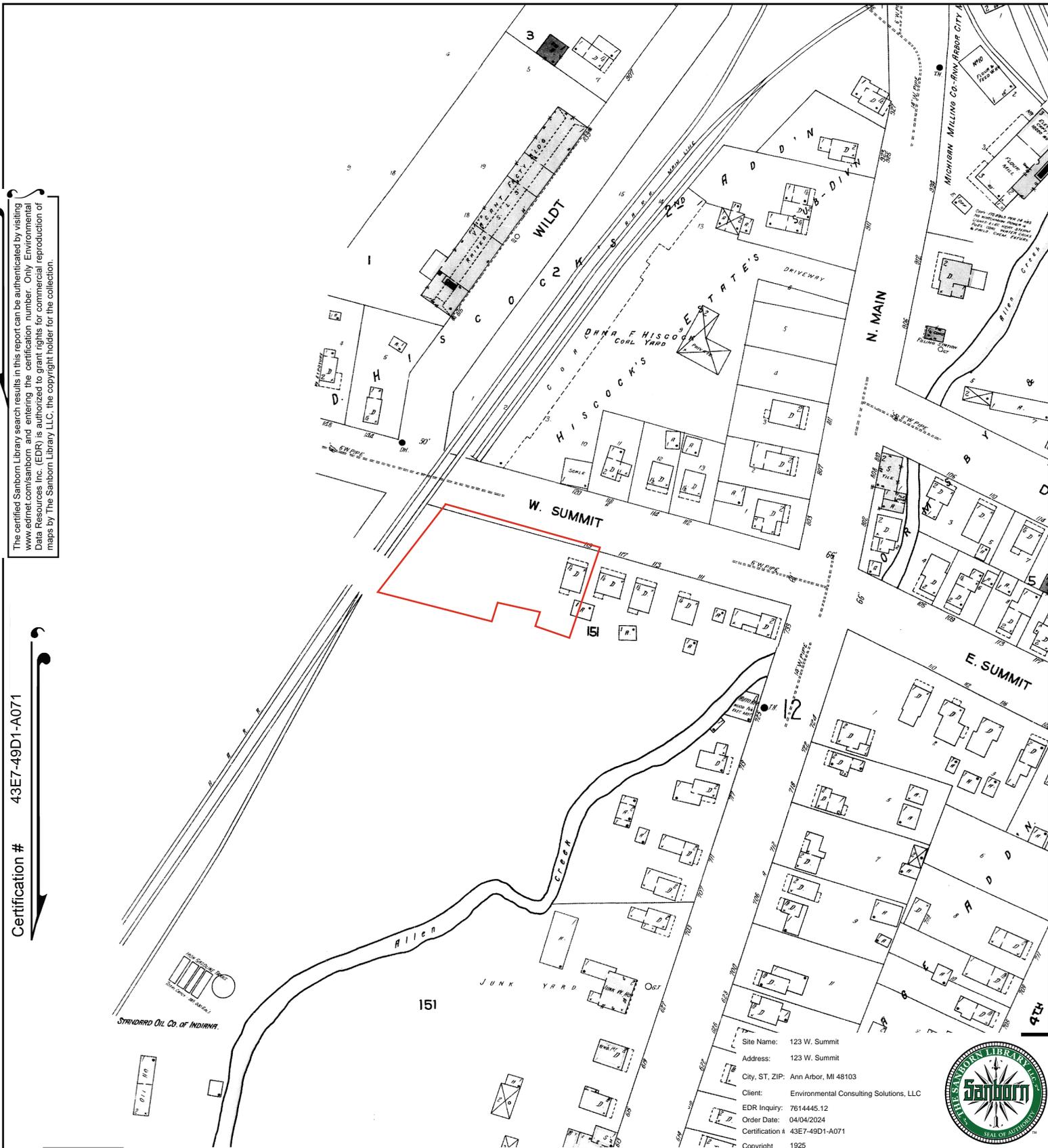


Volume 1, Sheet 10  
 Volume 1, Sheet 14



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

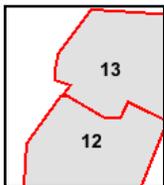
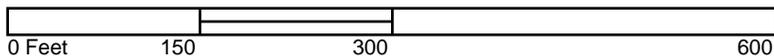
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1925



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

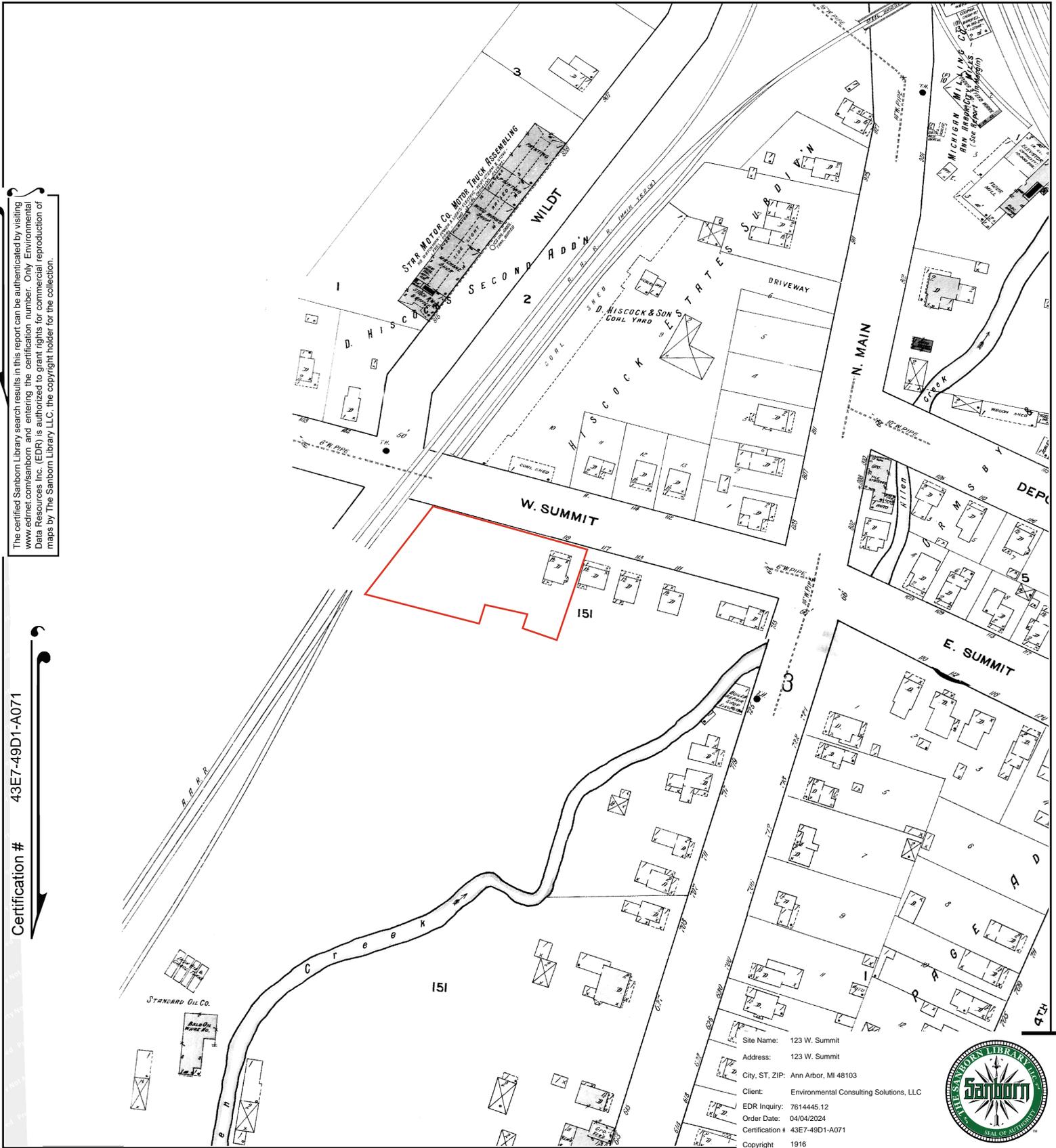


Volume 1, Sheet 12  
 Volume 1, Sheet 13



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrmet.com/sanborn](http://www.edrmet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

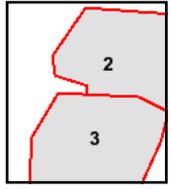
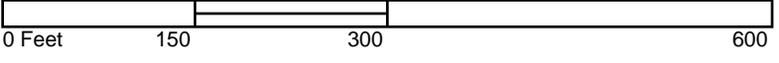
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1916



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

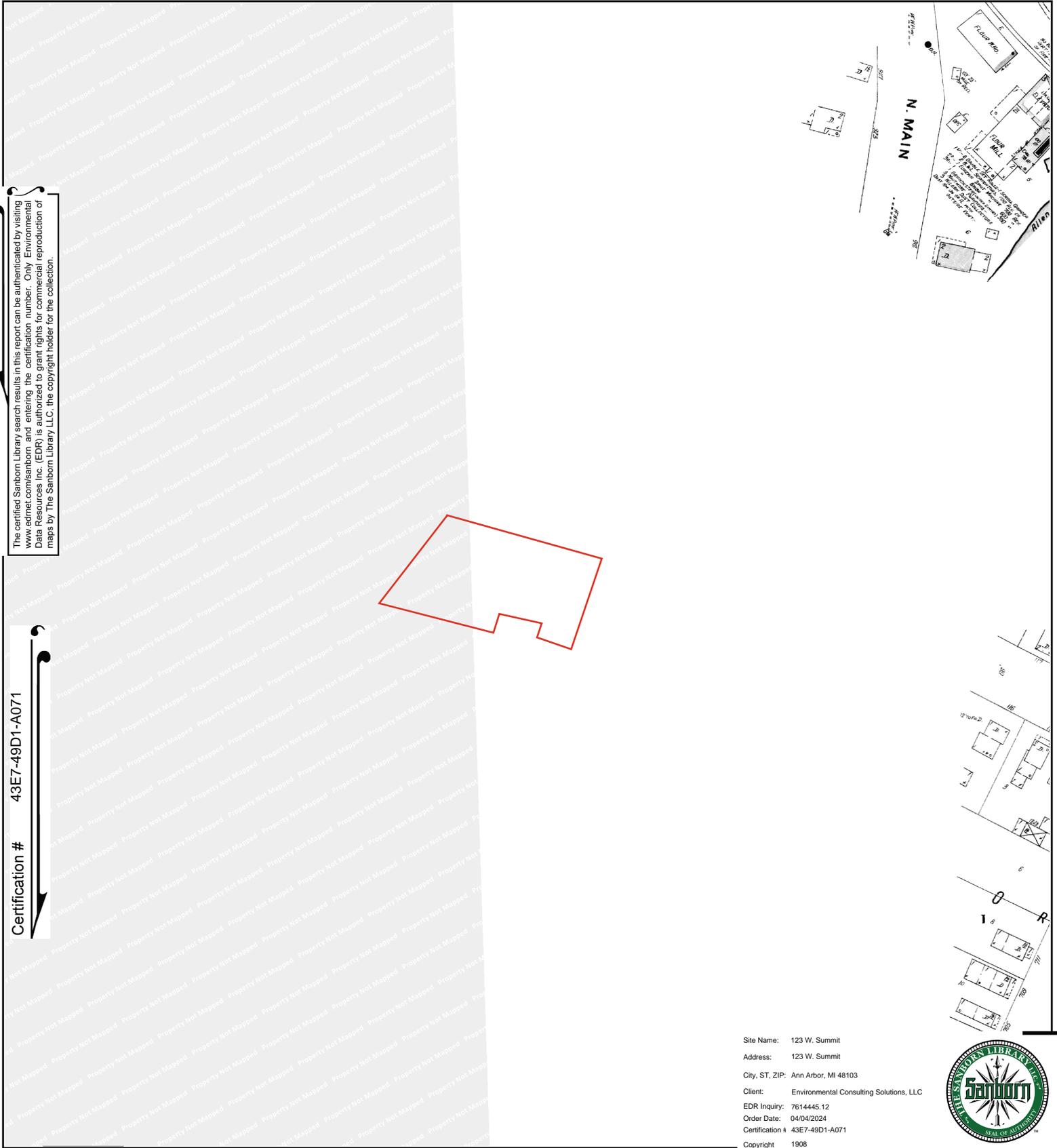


Volume 1, Sheet 2  
 Volume 1, Sheet 3



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

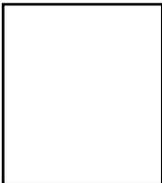
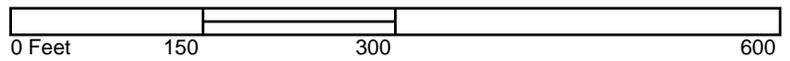
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1908

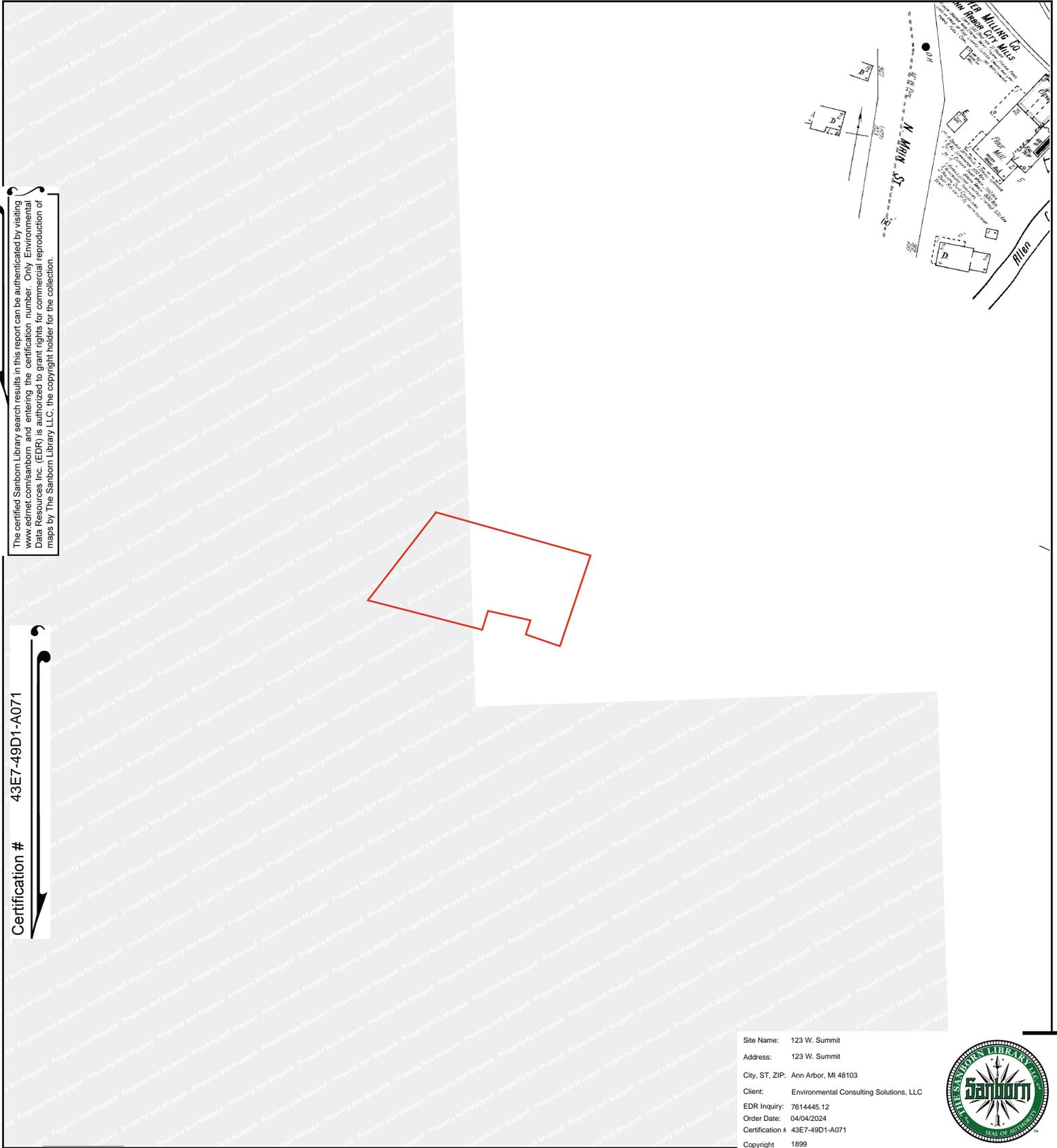


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

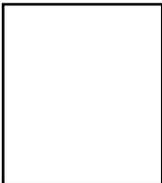
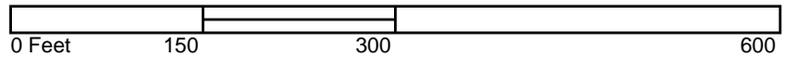
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1899

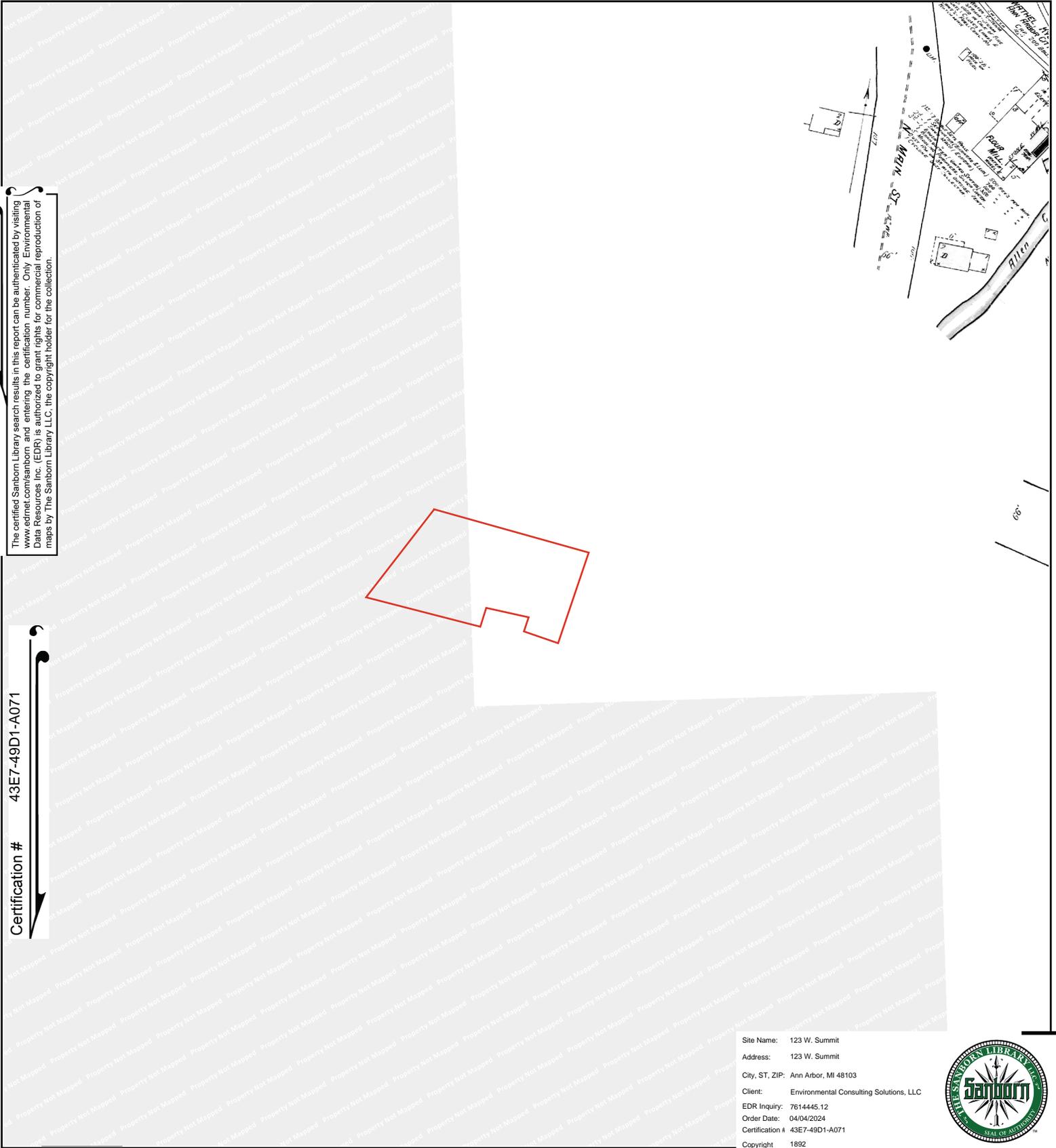


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

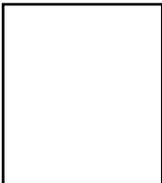
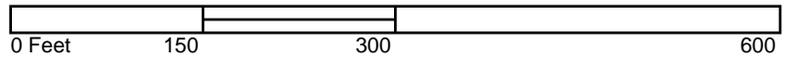
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1892

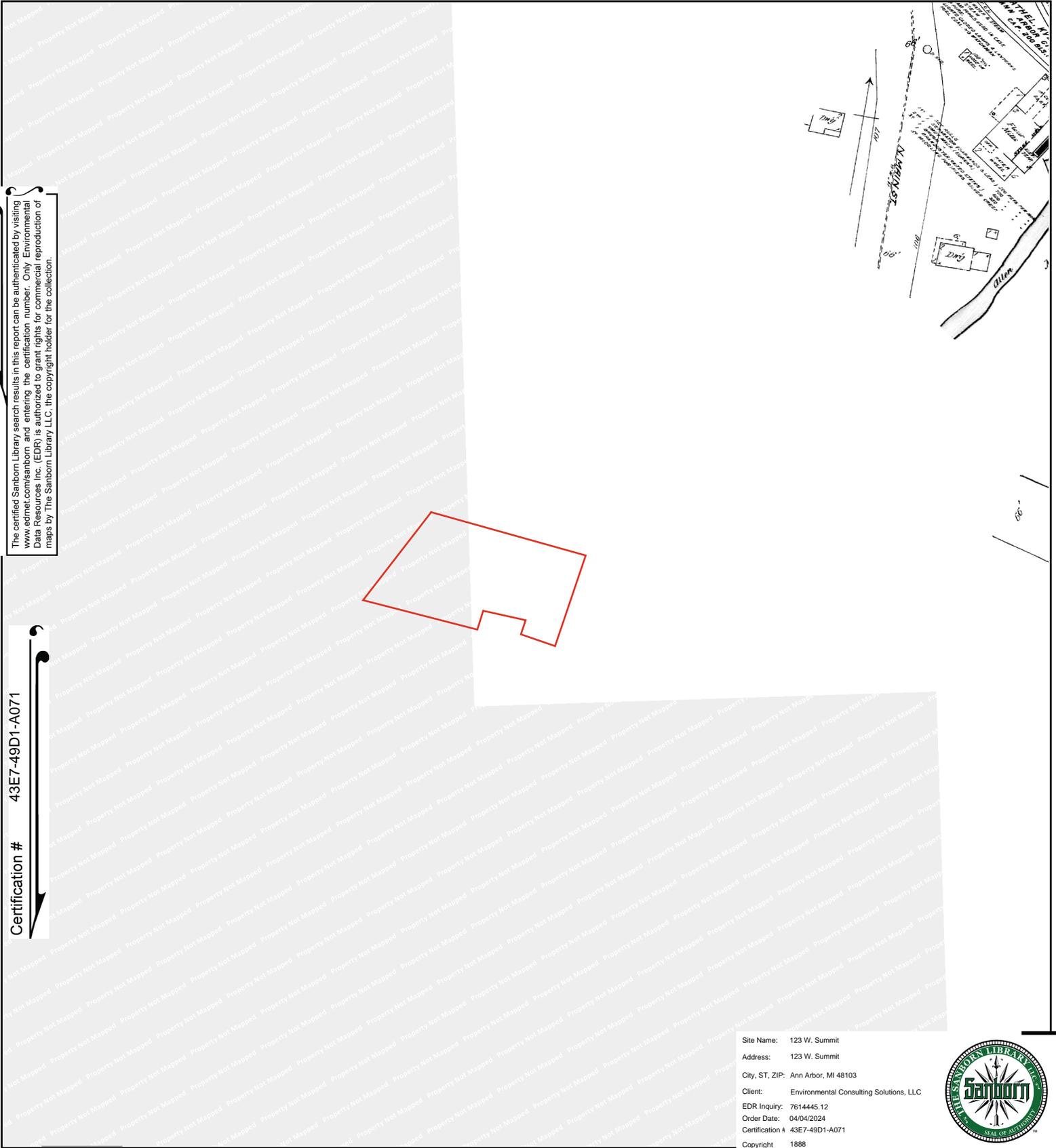


This Certified Sanborn Map combines the following sheets. Outlined areas indicate map sheets within the collection.



The certified Sanborn Library search results in this report can be authenticated by visiting [www.edrnet.com/sanborn](http://www.edrnet.com/sanborn) and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by The Sanborn Library LLC, the copyright holder for the collection.

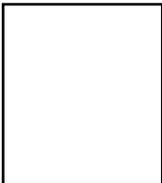
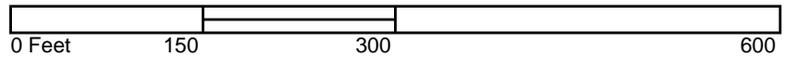
Certification # 43E7-49D1-A071



Site Name: 123 W. Summit  
 Address: 123 W. Summit  
 City, ST, ZIP: Ann Arbor, MI 48103  
 Client: Environmental Consulting Solutions, LLC  
 EDR Inquiry: 7614445.12  
 Order Date: 04/04/2024  
 Certification # 43E7-49D1-A071  
 Copyright 1888



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



**APPENDIX H**  
**City Directory Listings**

**123 W. Summit**

123 W. Summit

Ann Arbor, MI 48103

Inquiry Number: 7614445.14

April 12, 2024

# The EDR-City Directory Image Report

## TABLE OF CONTENTS

### SECTION

Executive Summary

Findings

City Directory Images

*Thank you for your business.*

Please contact EDR at 1-800-352-0050  
with any questions or comments.

### **Disclaimer - Copyright and Trademark Notice**

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, LLC. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. This Report is provided on an "AS IS", "AS AVAILABLE" basis. **NO WARRANTY EXPRESS OR IMPLIED IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, LLC AND ITS SUBSIDIARIES, AFFILIATES AND THIRD PARTY SUPPLIERS DISCLAIM ALL WARRANTIES, OF ANY KIND OR NATURE, EXPRESS OR IMPLIED, ARISING OUT OF OR RELATED TO THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT, INCLUDING WITHOUT LIMITATION, ANY WARRANTIES REGARDING ACCURACY, QUALITY, CORRECTNESS, COMPLETENESS, COMPREHENSIVENESS, SUITABILITY, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, TITLE, NON-INFRINGEMENT, MISAPPROPRIATION, OR OTHERWISE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, LLC OR ITS SUBSIDIARIES, AFFILIATES OR THIRD PARTY SUPPLIERS BE LIABLE TO ANYONE FOR ANY DIRECT, INCIDENTAL, INDIRECT, SPECIAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY TYPE OR KIND (INCLUDING BUT NOT LIMITED TO LOSS OF PROFITS, LOSS OF USE, OR LOSS OF DATA), ARISING OUT OF OR IN ANY WAY CONNECTED WITH THIS REPORT OR ANY OF THE DATA AND INFORMATION PROVIDED IN THIS REPORT.** Any analyses, estimates, ratings, environmental risk levels, or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only an assessment performed by a qualified environmental professional can provide findings, opinions or conclusions regarding the environmental risk or conditions in, on or at any property.

Copyright 2023 by Environmental Data Resources, LLC. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, LLC, or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

## 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 business directory data at approximately five year intervals.

### RECORD SOURCES

The EDR City Directory Report accesses a variety of business directory sources, including Haines, InfoUSA, Polk, Cole, Bresser, and Stewart. Listings marked as EDR Digital Archive access Cole and InfoUSA records. The various directory sources enhance and complement each other to provide a more thorough and accurate report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer.

### 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>
2020	☑	☑	EDR Digital Archive
2017	☑	☑	Cole Information
2014	☑	☑	Cole Information
2010	☑	☑	Cole Information
2005	☑	☑	Cole Information
2000	☑	☑	Cole Information
1995	☑	☑	Cole Information
1992	☑	☑	Cole Information
1987	☑	☑	Bresser's Cross-Index Directory Company
1982	☑	☑	Bresser's Cross-Index Directory Company
1977	☑	☑	Bresser's Cross-Index Directory Company
1972	☑	☑	Bresser's Cross-Index Directory Company
1967	☑	☑	Bresser's Cross-Index Directory Company
1964	☑	☑	Polk's City Directory
1960	☑	☑	Polk's City Directory
1955	☑	☑	Polk's City Directory
1951	☑	☑	Polk's City Directory
1947	☑	☑	Polk's City Directory
1942	☑	☑	Polk's City Directory
1937	☑	☑	Polk's City Directory
1932	☑	☑	Polk's City Directory
1927	☑	☑	Polk's City Directory
1917	☑	☑	Polk's City Directory
1912	☑	☑	Polk's City Directory
1902	☑	☑	Polk's City Directory
1897	☑	☑	Polk's City Directory

## EXECUTIVE SUMMARY

### 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>
1894	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Polk's City Directory

## FINDINGS

### TARGET PROPERTY STREET

123 W. Summit  
Ann Arbor, MI 48103

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

### W SUMMIT ST

2020	pg A2	EDR Digital Archive
2017	pg A5	Cole Information
2014	pg A8	Cole Information
2010	pg A11	Cole Information
2005	pg A14	Cole Information
2000	pg A17	Cole Information
1995	pg A20	Cole Information
1992	pg A23	Cole Information
1987	pg A25	Bresser's Cross-Index Directory Company
1982	pg A27	Bresser's Cross-Index Directory Company
1977	pg A30	Bresser's Cross-Index Directory Company
1972	pg A32	Bresser's Cross-Index Directory Company
1967	pg A34	Bresser's Cross-Index Directory Company
1964	pg A36	Polk's City Directory
1960	pg A38	Polk's City Directory
1955	pg A41	Polk's City Directory
1951	pg A43	Polk's City Directory
1951	pg A44	Polk's City Directory
1947	pg A46	Polk's City Directory
1942	pg A48	Polk's City Directory
1937	pg A50	Polk's City Directory
1932	pg A52	Polk's City Directory
1932	pg A53	Polk's City Directory
1927	pg A55	Polk's City Directory
1917	pg A57	Polk's City Directory
1917	pg A58	Polk's City Directory
1912	pg A60	Polk's City Directory

## FINDINGS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
1902	pg A62	Polk's City Directory
1897	pg A64	Polk's City Directory
1897	pg A65	Polk's City Directory
1894	pg A67	Polk's City Directory

## FINDINGS

### CROSS STREETS

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
<b><u>N MAIN ST</u></b>		
2020	pg. A1	EDR Digital Archive
2017	pg. A4	Cole Information
2014	pg. A6	Cole Information
2010	pg. A9	Cole Information
2005	pg. A12	Cole Information
2000	pg. A15	Cole Information
1995	pg. A18	Cole Information
1992	pg. A21	Cole Information
1987	pg. A24	Bresser's Cross-Index Directory Company
1982	pg. A26	Bresser's Cross-Index Directory Company
1977	pg. A28	Bresser's Cross-Index Directory Company
1977	pg. A29	Bresser's Cross-Index Directory Company
1972	pg. A31	Bresser's Cross-Index Directory Company
1967	pg. A33	Bresser's Cross-Index Directory Company
1964	pg. A35	Polk's City Directory
1960	pg. A37	Polk's City Directory
1955	pg. A39	Polk's City Directory
1955	pg. A40	Polk's City Directory
1951	pg. A42	Polk's City Directory
1947	pg. A45	Polk's City Directory
1942	pg. A47	Polk's City Directory
1937	pg. A49	Polk's City Directory
1932	pg. A51	Polk's City Directory
1927	pg. A54	Polk's City Directory
1917	pg. A56	Polk's City Directory
1912	pg. A59	Polk's City Directory
1902	pg. A61	Polk's City Directory
1897	pg. A63	Polk's City Directory
1894	pg. A66	Polk's City Directory

## **City Directory Images**

**N MAIN ST      2020**

- 618    Ashli Harvey
- Elizabeth Campbell
- Hannah Bailey
- Leah Diebel
- Peter Toth
- Sandra Martin
- Sloane Skinner
- Tracey McDowell
- Tracie Haskell
- Whitney Potter
- 625    ANN ARBOR COMMUNITY CTR
- 721    ANN ARBOR RECYCLING
- 730    ATM
- SUMMIT PARTY STORE
- 735    Anna Snoeyink
- Anthony Johnson
- David Fentriss
- 803    GREAT LAKES ENTREPRENEUR'S QST
- INTERNATIONAL SAMARITAN
- 805    Andrea Steves
- Timothy Furstnau
- 807    Anthony Swisher
- Robert Florence
- 811    ANNARBOR AGENCY
- MDRS LLC
- 906    MAIN STREET MOTORS
- 907    ANN ARBOR AUTO LLC
- VAN WINKLE MATTRESS CO
- 912    AMPLIFINITY
- UREFER LLC
- 918    Fiona Nowlin
- Matthew Popielarz
- 920    SWEET HEATHER ANNE

## W SUMMIT ST 2020

112	Dannie Dew Jarisiah Dew Jeremy Dew Johnnie Dew Kathy Dew Michal Dew Rachel Dew Timothy Dew
113	Lucas Merritt
114	Ana Deroo Kira Obradovich
117	Katherine Fata Samuel Koch
118	Thomas Knox
124	FOOD FOR ALL SEASONS LANDSCAPE LIGHTING SPECIALIST METRO PROPERTY SVC
201	John Policicchio Karl Drehobl Melina Dendrinios Rebecca Drehobl
203	Alexandra Manning Alison Pollock Julia Pollock Karl Malcolm Kent Manning Lucas Manning Robert Pollock
205	Megan Schimpf Sheila Schimpf Thomas Schimpf Timothy Schimpf
206	Andre Watson Zachary Courtade
207	Jennifer Steiner Meghan Arnold
208	Bradford Lichota Melissa Kennedy
210	Mark Katakowski Qi Gao Rachael Preston
211	Allen Burton Anthony Burton Glenn Burton Kelly Burton Paula Burton
212	Elizabeth Helgeson Paul Helgeson Thomas Porter
213	Adrian Landreth

**W SUMMIT ST      2020      (Cont'd)**

- 213    Kimberly Barnett  
       Kyoko Yamamoto  
       Morris Kainuma
- 214    David Stover  
       George Stover
- 215    Aileen Kay  
       Colleen Kay  
       Donald Kay  
       Elizabeth Kay  
       Kyle Kay  
       Michael Kay
- 220    Kimberly Elanges  
       Rebecca Walker  
       Robert Needham
- 223    Barbara Jackson  
       Charles Jackson
- 224    Gregory Schultz  
       Janet Keller

## N MAIN ST      2017

520	WALKER, WILLIAM J
523	DEGIULIO, BRIAN R KIM, DILLON LOTFI, S
526	TRUDEAU, SCOTT D
529	REINHARDT, CHRISTIAN
531	BEU, SARAH
532	AVALON HOUSING KROHN, TIMOTHY G
533	FROST, JACOB
537	PRICE, KEVIN
538	CARLSON, THOMAS P
542	CAMERON, OLIVER G
544	STEIH, PAUL
611	JENKINS, JEFFREY P
612	BANNISTER, ANNE L
614	FITZSIMMONS, KELLY J
615	OROURKE, MARGARET
625	ANN ARBOR COMMUNITY CENTER
730	SUMMIT PARTY STORE
803	BBC ENTREPRENEURIAL TRAINING & CONSU BIOTECHNOLOGY BUSINESS CONSULTANTS
805	FURSTNAU, TIMOTHY E
807	STRATTON, ANNE
811	THE ANNARBOR AGENCY
906	MAIN STREET MOTORS
907	1ST STOP AUTO CARE LLC A TWO AUTO CENTER INC ANN ARBOR AUTO LLC VAN WINKLE MATTRESS COMPANY
912	MOTOTRON UREFER LLC
920	SWEET HEATHER ANNE
924	BIOVIGIL HYGIENE TECHNOLOGIES CLEANER ENERGY COALITION INTALYTICS LIMESTONE BUILDING LLC
940	BIOTECTIX
944	FORD INVESTMENT STRATEGIES PETER ALLEN & ASSOCIATES

**W SUMMIT ST 2017**

114	CESERE, ANGELA J
117	LAURA, SEAN P
118	KNOX, THOMAS M
124	LANDSCAPE LIGHTING SPECIALIST METRO PROPERTY SERVICES WATER WORKS SPRINKLER
201	SAUNDERS, AMY F
203	GRITTER, THOMAS K
205	SCHIMPF, TIMOTHY O
206	WATSON, ANDRE L
207	ARNOLD, MEGHAN A
208	BRENNER, JOHN C DRISLANE, LAURA E
209	CHERICO, BEVERLY
210	KATAKOWSKI, MARK E
211	BURTON, ALLEN A
212	HELGESON, PAUL L
213	YAMAMOTO, KYOKO
214	STOVER, GEORGE W
215	SIMONS, ROBERT L
220	NEEDHAM, BOB W
223	JACKSON, BARBARA A
224	KELLER, CHARLES L MITCHELL, MATT J
300	MALL, SHAHEEN
301	NEIBURGER, ELI S
304	BROUSSARD, CHRISTOPHER G
307	BEHJATNIA, RAMIN B
403	GOODYEAR, BILL
404	COLE, HERBERT B
408	SMITH, AMANDA J

## N MAIN ST      2014

520	MACGREGOR, TODD S WALKER, WILLIAM J
521	MULLIGAN, JAMES S
522	OCCUPANT UNKNOWN,
523	BELCHER, GORDON HIRSCH, WALTER IRWIN, JANE E
525	OCCUPANT UNKNOWN,
527	MANTYN, SARAH
529	REINHARDT, CHRISTIAN
534	HAYDEN, LESLIE A
536	OCCUPANT UNKNOWN,
537	JACKSON, CORRYN H
538	CARLSON, THOMAS P
539	DERER, JOSEPH T
542	GOTLIB, HELEN R
544	SCALES, BRITTANY S
603	MURPHY, JILLIAN B VARGO-ALEVRAS, VAUGHN E
607	OCCUPANT UNKNOWN,
612	BANNISTER, ANNE L
614	DAWN FARM INC FITZSIMMONS, KELLY J
615	STARROW, MARTIN STORROW, SUSAN
618	BOSS, LAURA E TOTH, PETER A
625	ANN ARBOR COMMUNITY CENTER
626	DUNN, MICHELLE K STRAWBRIDGE, CHARLOTTE
708	OCCUPANT UNKNOWN,
722	GREENOUGH, G
730	SUMMIT PARTY STORE
803	BBC ENTREPRENEURIAL TRAINING & CONSU
805	FURSTNAU, TIMOTHY E
811	SANDERS, ROBIN
906	MAIN STREET MOTORS
907	1ST STOP AUTO CARE LLC VANWINKLE MATTRESS CO
912	LLC UREFER MOTOTRON UREFER LLC
920	NEDERVELD SWEET HEATHER ANNE
924	CLEANER ENERGY COALITION INTALYTICS LIMESTONE BUILDING LLC
940	BIOTECTIX
944	FORD INVESTMENT STRATEGIES PETER ALLEN & ASSOCIATES

Target Street

Cross Street

Source

-

✓

Cole Information

**N MAIN ST**

**2014**

**(Cont'd)**

944 TEREX ANN ARBOR

**W SUMMIT ST 2014**

112 DEW, DANNIE H  
114 BARICK, AUDREY A  
117 KOCH, SAMUEL D  
118 KNOX, THOMAS M  
124 ALL SEASONS FOOD FOR  
METRO PROPERTY SERVICES  
TRI MEDIA CONSULTANTS  
VALLEY BUILDERS INC  
WATER WORKS SPRINKLER  
201 CISEK, MICHAEL J  
203 GRITTER, THOMAS M  
205 SCHIMPF, TIMOTHY O  
206 WATSON, ANDRE  
207 TONKS, PATRICK O  
208 KENNEDY, THOMAS M  
209 CHERICO, BEVERLY  
210 KATAKOWSKI, MARK E  
211 BURTON, ALLEN A  
212 OCCUPANT UNKNOWN,  
213 TAMAMOTO, KYOKO  
214 STOVER, GEORGE W  
215 SIMONS, ROBERT L  
220 NEEDHAM, BOB W  
223 JACKSON, BARBARA A  
224 KELLER, CHARLES L  
MITCHELL, MATT J  
300 MALL, SHAHEEN  
301 NEIBURGER, ELI S  
304 BROUSSARD, CHRISTOPHER G  
305 FERRIS, DANIEL P  
307 VANDERVLUGT, BRIAN E  
309 SPENCER, CHERYL  
314 DODD, TONY  
403 GOODYEAR, KIM E  
404 ORJALA, JAMES A  
408 OCCUPANT UNKNOWN,  
414 COUTURE, CAITLIN J  
GRITTER, THOMAS R  
SUBARAM, RAMAN

## N MAIN ST 2010

520	MACGREGOR, TODD STATMAN, ADAM R
521	OCCUPANT UNKNOWN,
522	OCCUPANT UNKNOWN,
523	QUINN, KALEENA L RETYI, RICHARD STERZIK, LEE M VANRYN, JONATHAN P
525	OCCUPANT UNKNOWN,
527	MANTYN, SARAH
529	REINHARDT, CHRISTIAN
531	OCCUPANT UNKNOWN,
532	KROHN, TIMOTHY G PRATHER, DOUGLAS R
533	CORNER, MARGIA
534	HOAGLAND, SHAWN NAGY, IVAN
536	OCCUPANT UNKNOWN,
537	OCCUPANT UNKNOWN,
538	CARLSON, THOMAS P
539	OCCUPANT UNKNOWN,
542	GOTLIB, HELEN R
543	NETWORK SYSTEMS
544	PETERS, BRIAN J
603	MURPHY, JILLIAN
607	OCCUPANT UNKNOWN,
611	JOHNSON, TRACY
612	BANNISTER, ANNE L PERSONAL FINANCE EDU SVC INC
614	DAWN FARM INC OCCUPANT UNKNOWN,
615	KELLER, J STARROW, MARTIN
622	OCCUPANT UNKNOWN,
625	ANN ARBOR COMMUNITY CTR
626	DUNN, MICHELLE K WHITE, DOUGLAS W
630	OCCUPANT UNKNOWN,
700	OCCUPANT UNKNOWN,
708	OCCUPANT UNKNOWN,
712	COHN, ANDREW P
721	ANN ARBOR SOLID WASTE
722	GREENOUGH, G
724	ADAMS, LAWRENCE J RICHARDSON-BRIS, PENELOPE
730	SUMMIT PARTY STORE
803	BIOTECHNOLOGY BUSINESS CNSLTNT
805	SANCHEZ, JOSHUA J STEVES, ANDREA C
807	OCCUPANT UNKNOWN,

**N MAIN ST**

**2010**

**(Cont'd)**

906	MAIN STREET MOTORS INC
907	VAN WINKLE MATTRESS CO
912	A 2 MOBILE PAGERS
	MECHANICAL SIMULATION CORP
	MOTO TRON CORP
924	LIMESTONE BUILDING LLC
	MOLECULAR THERAPEUTICS
	RIDE BOUTIQUE INC
	UREFER LLC
936	M D CONTENT
940	CORNERSTONE DESIGN INC
944	NEDERVELD INC
	PETER ALLEN & ASSOC INC
	THIRD MONK RECORDS

**W SUMMIT ST 2010**

111	WILLIAMS, DELBERT W
112	DEW, DANNIE H
113	VAWTERS, DAVID K
114	KOTULA, JESSICA I
115	HEWLETT, KEVIN M
117	ANN ARBOR MUNICIPAL GARAGE
118	KNOX, THOMAS M
124	FOOD FOR ALL SEASONS METRO PROPERTY SVC VALLEY BUILDERS INC
200	OCCUPANT UNKNOWN,
201	OCCUPANT UNKNOWN,
206	MCNABB, KENNETH M
207	STEINER, JENNIFER TONKS, PATRICK O
208	KENNEDY, THOMAS M
210	KATAKOWSKI, MARK E
211	BONK, MARIO HAMMERLING, DORIT
213	GILLESPIE, RAYMOND S
215	WESTBROOKS, CAROLYN G
220	SCHWANBECK, LESLIE A
223	FIELDS, JACKSON B
224	KELLER, CHARLES L MITCHELL, MATT J
300	OCCUPANT UNKNOWN,
301	NEIBURGER, ELI S
304	OCCUPANT UNKNOWN,
305	GIOVANNETTONE, JASON
307	RAMIN, BEHJATNIA
314	OCCUPANT UNKNOWN,
403	GOODYEAR, KIM E
404	OCCUPANT UNKNOWN,
408	MOORE KATHLEEN MOORE, KATHLEEN A
414	GREEN, JENNIFER A

## N MAIN ST 2005

520	HUGGINS, CATHERINE S
521	FISCHER, EMILY A
522	OCCUPANT UNKNOWN,
523	DEVORE, LEE J
	FERSON, SHELLEY R
	IRWIN, JANE E
	KLEIN, MATTHEW P
	KNAFL, JILL M
525	TANS, ALLEN L
526	BROMBERG, KENNETH A
527	OCCUPANT UNKNOWN,
529	OCCUPANT UNKNOWN,
531	CONLEY, ERICA A
532	KEKES, PAMELA
	MCKERNAN, TOM J
	REESE, GREGORY R
533	ANDERSON, SCOTT
	CONNECTWEB
534	BURROUGHS, GARY
	CONTRERA, MICHAEL
	PAREJKO, JOHN
536	TODD, MICHAEL J
537	BANGHAM, EMILY
538	CARLSON, THOMAS P
539	ODELL, MARK A
542	BARDEN, ROBERT
543	BH 543NMAIN LLC
544	GRELEWICZ, J
603	WILLIAMS, JOSHUA R
607	OCCUPANT UNKNOWN,
611	OCCUPANT UNKNOWN,
612	BANNISTER, ANNE L
614	OCCUPANT UNKNOWN,
615	BANCEL, PAUL A
618	SMITH, CHARLES E
622	WOLLERT, JENNIFER L
625	ANN ARBOR COMMUNITY CENTER INC
626	CONNELL, VIVA
	STRAWBRIDGE, C
	WHITE, DOUGLAS
630	ANGEL, CECIL B
700	ROE, STEVEN
708	TERRACES, ON M
712	HARTZ, ADAM E
718	OCCUPANT UNKNOWN,
721	ANN ARBOR CITY
722	KING, JOSHUA D
724	DONHAM, PEGGY A
	RICHARDSON, PENELOPE
733	ANN ARBOR MUSIC CENTER

**N MAIN ST      2005      (Cont'd)**

803	BIOTECHNOLOGY BUSINESS CONSULTANTS L LYNN LTD INC SALLY WISOTZKEY MSW WINDOW WORKS CO
805	SANCHEZ, JOSHUA J
807	OCCUPANT UNKNOWN,
834	WINTERMEYER, TRACY
901	ANN ARBOR COLLISION LLC
906	MAIN STREET MOTORS
907	A PLUS AUTO ANN ARBOR B & W DISTRIBUTING INC MAIN STREET COLLISION CENTER
912	BLUE GURU MARKETING LLC CONTACT OPTATE EIDOS GROUP INC ELLWOOD, J J FULLSCOPE INC GOKNOW INC HYDRO COMPLIANCE MANAGEMENT INC HYDRO KLEEN TRACKSPEED LLC
924	MOLECULAR THERAPEUTICS INC PRASAD SUNKARA
944	ALLEN & KWAN COMMERCIAL LLC FORTE MARKETING SERVICES KIRKWOOD GROUP

## W SUMMIT ST      2005

111	MITCHELL, THOMAS
112	BELL, LYNN B
113	MORRIS, RONNIE
114	DEW IT COMPUTER SYSTEMS DEW, DANNIE
117	OCCUPANT UNKNOWN,
118	KNOX, THOMAS M
124	DENNIS, VESSELS FOOD FOR ALL SEASONS GREATER HURON VALLE INV CORP METRO PROPERTY SERVICES MICHIGAN COMPUTER SUPPLY INC MONKS, EVA VALLEY BUILDERS INC WILLIAMS, KEITH C
201	OCCUPANT UNKNOWN,
206	OCCUPANT UNKNOWN,
207	SCOTT, ROBERT M
208	GILBERT, DERRICK MONTGOMERY, MARY H STAPLETON, ANDREW SYRING, JENNIFER
211	GILLESPIE, RAYMOND
212	OUR MEDICAL VANLOAN, MICHAEL
213	OCCUPANT UNKNOWN,
215	ESKRA, JOYCE WESTBROOKS, CAROLYN J
220	NEEDHAM, BOB W
223	JACKSON, BARBARA A
224	CHARLES, L KELLER, CHARLES L MITCHELL, MATT J
300	JONSSON, MATTIAS O
301	NEIBURGER, ELI S
305	MA, HAMIL L
307	RIGGS, DIANE K
314	DODD, TONY
401	MORDSKY, DAVID G
403	GOODYEAR, KIM E
404	OCCUPANT UNKNOWN,
408	MOORE, KATHLEEN A
414	GROSSER, EDWARD ORGE, HASAN Y REYNOLDS, HENRY

**N MAIN ST      2000**

520	BENJAMIN, CHARLES
521	RHOADES, CARRIE R
522	OCCUPANT UNKNOWN,
523	BENAGH, JIM
	COULTER, ROXANNE
	LININGER, STEVE P
	MARSH, E
	SHELDON, ERIN
525	BURGDORF, KENNETH
526	BROMBERG, KENNETH A
527	CANNELLA, CHIARA M
	MARTIN, BRYON J
529	AUSTIN, J
531	PASLICK, MARC
	SCHORT, LINDA L
	WOOD, WENDY K
533	ANN ARBOR SOFTWARE ASSOCIATES
	OCCUPANT UNKNOWN,
534	CARNER, SARAH E
	CONTRERA, MICHAEL
	CUTLER, AMY E
536	HAKKI, MORGAN
537	GMEINDL, LEON
538	CARLSON, B
539	OCCUPANT UNKNOWN,
542	OBRIEN, MICHAEL
543	OCCUPANT UNKNOWN,
544	BARNS, DOUGLAS
	BURNS, DANIEL
	MCCORD, MARSHA
607	MCCOY, MARK
611	OCCUPANT UNKNOWN,
612	BANNISTER, ANNE
613	BOSS GUITARS & VINTAGE MUSICAL INSTRUMENTS
	OCCUPANT UNKNOWN,
614	HOWDER, JON R
	NEYMAN, A
	ZAMOYSKI, JOHN
622	WOLLERT, J
625	ANN ARBOR COMMUNITY CENTER INCORPORATED
	WASHTENAW CNTY OF EMPLMNT TRAIN & COMMUNITY SERVICES
626	GILLESPIE, P
630	ANGEL, CECIL
700	ELSON, STEVEN
708	HESSION, CHARLES
712	BRIER, BERNARD
	LOVE, CANDICE A
	MARTINEK, TAMERA
	MUELLER, LISA
718	BRIER, DAVID

**N MAIN ST      2000      (Cont'd)**

- 721 ANN ARBOR CITY OF SOLID WASTE DEPARTMENT
- 722 OCCUPANT UNKNOWN,
- 724 LOVE, QUENTIN G
- 730 SUMMIT PARTY SHOPPE
- 733 FLEMING TAMULEVICH & ASSOCIATES INCORPORATED
- 803 MACGREGORS OUTDOORS INCORPORATED
- 805 OCCUPANT UNKNOWN,
- 807 ARDNER, JOHN
- 906 MAIN STREET MOTORS
- 907 A 2 COMMUNICATIONS FAX LINE  
ANN ARBOR AUTO SERVICE  
ANN ARBOR COLLISION CENTER
- 912 A 2 MOBILE PAGERS  
SAVE OUR LAND SAVE OUR FUTURE
- 920 ALPHA CONTRACTING INCORPORATED  
LUTES & ASSOCIATE
- 936 U HAUL COMPANY
- 940 CANOE SPORT

## W SUMMIT ST      2000

109	OCCUPANT UNKNOWN,
111	THAYER, E V
112	WEST, LOUISE
113	RUSH, GERALD
114	DEW, JOHNNIE
117	JIDOV, CANDACE A
118	KNOX, THOMAS
124	ALL SEASONS CATERING
	FOOD FOR ALL SEASONS
	HURON VALLEY ROOFING INCORPORATED
	METRO PROPERTY SERVICE
	VALLEY BUILDERS INCORPORATED
201	JOHNSON, EZEKIEL
206	ARNOLD, IRVEN
207	SCOTT, ROBERT
208	DYSART, AIDAN C
	HUNTER, CHAD
	IHRKE, STEVEN A
	LANGHORST, DAVID
	WALSTRA, KENNEDY E
210	OCCUPANT UNKNOWN,
	SAKALAUSKAS MARK DC
211	GILLESPIE, RAYMOND
212	COVINGTON, C J
215	BYRD, JANICE V
220	SCHWANBECK, LESLIE
223	FIELDS, BIRDIE M
	JACKSON, BARBARA A
224	KELLER, CHARLES
300	KAUS, I
301	NEIBURGER, ELI
304	OCCUPANT UNKNOWN,
307	OCCUPANT UNKNOWN,
314	DODD, PATRICK
401	MORDSKY, GILBERT
403	GOODYEAR, KIM E
404	TWOMEY, MICHAEL J
408	ROSS, MICHAEL
414	LAW, NEIL
	MALCOLM, E
	NUSSBAUM, MAURY A
	YEAKEY, MICHAEL

## N MAIN ST

1995

520	RAMSAY, DENISE
521	OCCUPANT UNKNOWNN
522	KLOTZ, EDWARD
523	COTTS, K
	EDMUNDS, RONALD C
	MORITA, JOSEPH
	STEEG, ALBERT
	WEIKEL, LINDA
525	OCCUPANT UNKNOWNN
526	GEERTSMA, ROBERT
	KNSCHNER, LARA J
	TRIMBLE, PATRICK J
527	HEFTY, RACHEL
529	TULINSKY, WILLIAM
531	BEWERSDORF, KIM
	FOY, THELMA
	GLATSELTHER, JNICE
	SCHEMIDT, C
	WIATRAK, MAREK
	WOOD, WENDY K
532	MAPLE, JEFF
	MOROWSKE, CHARLES
	OTTO, P
	PHILLPOTTS, EDWARD JR
	SMITH, CHARLES
533	GAIL, MARY
534	BASA, ALFRED
	KACER, T
	LASHLEY, LEBASI
	LING, JASON
536	HARDY, MARIE F
	SCHNEIDER, ESTHER F
	SEITZ, MARTIN E
537	HIEBER, L
538	CARLSON, B
539	GREENE, BRUCE
542	WANSHON, MARK
544	ZIEMBA, MARK
603	BURTT, C A
607	FALCONE, CARMELO
	MCCOY, E
608	OCCUPANT UNKNOWNN
	OZONE HOUSE
611	BOYLE, ROBERT
	FLORIAN, JUDY
612	OCCUPANT UNKNOWNN
613	ESCANDON STUDIO
614	ADAMS, STEVE
	PHILLIPS, HEATHER
615	DICKINSON, AMY

## N MAIN ST

1995

(Cont'd)

618	OCCUPANT UNKNOWNN
622	CASEY, MICHAEL
625	ANN ARBOR COMMUNITY CTR NEW BEGINNINGS FREE METHODIST
630	OCCUPANT UNKNOWNN
700	OCCUPANT UNKNOWNN
708	HESSION, CHARLES
712	HIEBER, LEON D MAINSTREAM MANAGEMENT
718	OCCUPANT UNKNOWNN
721	ANN ARBOR SOLID WASTE ANN ARBOR STREET MAINTENANCE
722	BAXTER, ALZA L
724	OCCUPANT UNKNOWNN
730	SUMMIT PARTY SHOPPE
733	FLEMING TAMULEVICH & ASSOC INC
803	MAC GREGORS OUTDOORS INC OCCUPANT UNKNOWNN WINDOW WORKS
805	OCCUPANT UNKNOWNN
807	ARDNER, JOHN
811	RINCHER, GERALD
906	MAIN STREET MOTORS
907	A 2 AUTO A 2 PROMOTIONS ANN ARBOR AUTO SVC OVERSPRAY REMOVAL INC PENDLETON, JOY
912	912 N MAIN INC ANN ARB AREA COC ANN ARBOR TESTING & DEV INC AUTOMATION CONTROL ENGINEERING CHEMICAL CONCEPTS CORP CHROMOTAFAST INC COLDING INTERNATIONAL CORP COMM ON HLD AN ARB FULL NEWS INFORMATION SVC JFM ASSOCIATES INC JHA SIMULATION INC LYNN LIMITED R P INDUSTRIES WAVEFRONT INC
920	ALPHA CONTRACTING & MANAGEMENT
936	ROBEY TIRE SPARTAN TIRE & SVC CTR
940	CANOE SPORT
955	ALLSTATE INS CO

## W SUMMIT ST      1995

109	OCCUPANT UNKNOWNN
111	GINYARD, TERRY
112	OCCUPANT UNKNOWNN
113	FERRELL, MICHAEL
114	DEW, JOHNNIE
117	KEARNEY, JEFF
118	KNOX, THOMAS
124	HURON VALLEY ROOFING INC J JS HOME IMPROVEMENTS JOHNSON, JEFFERY METRO PROPERTY SVC VALLEY BUILDERS INC
200	GRANT, HAZEL
201	JOHNSON, EZEKIEL
206	ARNOLD, IRVEN
207	SCOTT, ROBERT
208	JACOBSON, J SOMERS, LISSA
210	SAKALAUSKAS, MARK
211	GILLESPIE, RAYMOND
212	BOWEN, JEAN PATRICK, CHARLIE
213	OCCUPANT UNKNOWNN
215	MCGRAW, P
220	SCHWANBECK, LESLIE
223	FIELDS, BIRDIE M JACKSON, BARBARA A
224	KELLER, CHARLES
300	MALL, AYESHA
301	OCCUPANT UNKNOWNN
304	BURCH, WILCHIE C
307	BRIEGEL, JERRY L
314	LAVARTE, PATRICK
401	MORDSKY, GILBERT
403	GOODYEAR, KIM E
404	TWOMEY, MICHAEL J
408	BARTON ASSOCIATES INC OCCUPANT UNKNOWNN
414	NUSSBAUM, MAURY ROBERTS, PAUL W

## N MAIN ST

1992

521	MCALLISTER, JAMES
522	KLOTZ, EDWARD
526	GEERTSMA, F YACO, LINK
527	JACKSON, EDDIE
531	LONG, JAY
532	HOPKINS, ORREN SPIVEY, ROBERT
536	SCHNEIDER, ESTHER F SEITZ, MARTIN E
538	CARLSON, B
542	WANSHON, MARK
607	FALCONE, CARMELO MCCOY, PAUL C
608	OZONE HOUSE
611	BOYLE, ROBERT
613	CAVEX
614	ADAMS, STEVE PHILLIPS, HEATHER
622	MCCLEAN, MIKE
625	ANN ARB COMM CTR
626	STRAWBRIDGE, RICHARD
630	DWNTWN BED&BRKFST
700	DOWNTOWN BD&BRKFST
708	HESSION, CHARLES
712	HIEBER, LEON D
718	BAKER, TANYA
721	CITY TRFC ST MAINT CITY WASTE FIELD
722	BAXTER, ALZA L
730	MISTER RIB SUMMIT PARTY SHOPE
733	FLEMING&ASSOC GEMINI
803	MAC GREGORS OUTDRS
811	RINCHER, GERALD
906	MAIN ST MOTORS
907	A-2 AUTO A-2 AUTO SVC ANN ARBOR AUTO SVC AUTO ONE OF ANARB
912	ANN ARB AREA COC ANN ARBOR TESTING AUTOMATION CONTROL CHAMBER INNOVATION CHEMICAL CONCPT CP COLDING INTRNTL FULL NEWS INFO SRV J F M ASSOC J HA SIMULATION

**N MAIN ST**

**1992**

**(Cont'd)**

912	PORFSNLS TIMEKPNG SCORE SERVICE CORPS SMLL BSNSS BENEFTS WAVEFRONT INC
936	ROBEY TIRE SPARTAN TIRE&SRV SPARTAN-ROBEY TIRE
940	CANOE SPORT

**W SUMMIT ST 1992**

112 BELL, LYNN  
113 BATES, NORMAN  
114 DEW, JOHNNIE  
117 KEARNEY, JEFF  
118 KNOX, THOMAS  
124 METRO PRPRTY SERV  
VALLEY BLDRS INC  
200 GRANT, HAZEL  
201 JOHNSON, EZEKIEL  
206 ARNOLD, IRVEN  
207 SCOTT, ROBERT  
211 GUSTER, JAMES  
212 BOWEN, JEAN  
PATRICK, CHARLIE  
215 MOODY, C M  
223 FIELDS, BIRDIE M  
JACKSON, BARBARA A  
304 BURCH, WILCHIE C  
307 BRIEGEL, JERRY L  
401 MORDSKY, GILBERT  
404 TWOMEY, MICHAEL J  
414 DOELLE, WILLIAM  
SNYDER, ANDREW C

## N MAIN ST 1987

510	RICHARD A WOLFE	□7619376
	JOSEF NORRIS	2 6633013
514	TIMOTHY W OSIUS	7617786
515	BOB BRUCE	2 6631282
	JEFFREY K HARRISON	5 6621680
519	RONALD KEVARI	4 6631982
520	D W RICHMOND	9946218
521	JAMES MCALLISTER	□6624498
522	EDWARD KLOTZ	6635802
523	KELLIE HOBBS	4 6635642
	JAMES E MORRIS	4 6637402
	Y PATTANAPONGSE	8 6655313
	PAUL PINKO	5 6653160
	B WILSON	□6622343
525	ROBERT BEUTEL	□6625782
	MARICA VISSER	□6625828
526		NP
527	N SYLVESTER	2 6624042
529	CORNELL DABNEY	□6623782
531	DAVID PHILLIP VOSS	□9958465
532	BARBARA BORGEN	□6636054
	ORREN HOPKINS	5 7691022
533	FRED S ALLSBROOK	□6632530
	MARK IRELAND	□6632530
	MARVIN MARCUS	5 9943390
	BRIDGET M SICKON	□6635034
534	N E ELKINGTON	5 6631773
	D MOORE	□9940071
536	MARTIN E SEITZ	□9948648
537		NP
538	B BARDEN	5 6652428
539	G J LINDENSCHMIDT	0 6659231
542	BOB BARDEN	2 6652250
543*	MCKINLEY PROPERTS	7698520
544	DOUGLAS FIERBERG	5 6636002
	D SCHLICKENMAYER	5 6636002
603	SUSAN HARDING	□6625850
607	MRS C FALCONE	6626457
	PAUL C MCCOY	6626457
608*	OZONE HOUSE	8622222
	BRUCE PENROSE	□6680569
611		NP
612	T FERRANTE	5 9955073
613*	MCCOYS MARKET	6621507
614	RONALD E KRAMER	6657348
	BARBARA STANLEY	-6657348
615	HATTIE BIRD	□6687030
	MARGARETTE CLARK	3 7619449
618	BRUCE GOETTING	□6657434
622	TERRY GREENIDGE	□6686410
625*	ANN ARBR COMM CNTR	□6623128
626		NP
630	JOHN KELLY TOLFORD	-9961872
700	JOE W CANNON	6686795
708	CHARLES HESSION	0 6621081
712	LEON D HIEBER	□9952005
	WILLIAM KRAUSE	□7690682
717	718	NP
721*	CTY FIELD OFFICE	9942771
	*CTY ST MAINTENCE	9941617
722	ALZA L BAXTER	6688055
724	DEBORAH GRUBBS	9958737
	ROBERT J LEGGETT	6657400
730*	MISTER RIB	□7618888
	*SUMMIT PARTY SHOPE	7618899
733	JOHN L RAGLAND	6624981
735		NP
803*	T I GROUP	9944028
805*	ANN ARBOR TATTOO	6654664
807	RUTH MARIE ARDNER	7616447
808		NP
811	K RINCHER	4 6658013
813	815	NP
906*	MAIN ST MOTORS	□6635544
907*	AAA AUTO SERVICE	6653725
	*AAA AUTO GLASS	6653725
	*ANN ARBR AUTO GLAS	6653725
	*ANN ARBOR AUTO SV	6653725
	*ANN ARBOR GLS&TR	6653725
909*	POLY-OLEUM RUSPRF	6625546
912*	CNR RESEARCH	□9960300
	*CHAMBER INNOVATION	□6620550
	*COMPUTR RESRCE CTR	-9958700
	*IRIE COMPUTER	□6655115
	*LASER TECHNOLOGY	□6655580
	*MAYFIELD ASCTS	□6625582
	*OUALITECH INC	□6622006
	*WORDDESIGNS	□6655586
918*	WASHTENAW ELEC CO	□7699077
936*	ROBEY TIRE&SVC CTR	-9944242
	*SPARTAN-ROBEY TIRE	9944242
	*SPARTAN TIRE&SRV	9944242
940*	CANOE SPORT	9961393
1035	JIM HADDEN JR	2 6629342

Y NOT BE KEYPUNCHED, ENTERED INTO A COMPUTER, OR

W SUMMIT ST 1987

	20 RESIDENCE	11 BUSINESS
8	<b>SUMMIT W</b>	
0		48103
3		
7	•• 100- 199 T	7 \$E••A13
0	E• 200- 89B T	1701 \$C••A13
0	O• 201- 899 T	7 \$E••A13
S	111 ROSA MAYS	9943476
	112 LYNN BELL	6627247
4	113 ROBERT REED	5 6632079
	114 JOHNNIE DEW	4 9960108
4	117 CYNTHIA HAILES	3 7698413
6	118	NP
7	124*C&J BODY SHOP	66B7752
5	200 MRS HAZEL FIELDS	6625145
0	201 EZEKIEL JOHNSON	9940865
5	204	NP
5	206 IRVEN ARNOLD	6621824
0	207 ROBERT SCOTT	6629435
3	208	NP
S	210*COM CHIROPRACTIC CTR	□9952900
	211 MRS JAMES GUSTER	6635212
4	212 JEAN BOWEN	6637466
	CHARLIE PATRICK	6628255
0	213 215 220	NP
0	223 CHARLES G FIELDS	6631886
	B A JACKSON	6631886
7	224 LISA CANIN	5 7617733
0	CHARLES KELLER	0 9962977
0	300 JOE MCFADDEN	6622086
0	301	NP
4	304 WILCHIE C BURCH	6656733
	307 ERNEST C BRIEGEL	6632749
	314 REV JOHN A WOODS	6635069
9	401 GILBERT MORDESKY	6627106
	402 403	NP
	404 CAREY CULBERTSON	9 6652199
	*J CULBERTSON ARCHT	9955230
	408	NP
5	414 M HENDRY	4 6635508
	J SZCZEPANSKI	□7696234
4	508 KEVIN CORDT	-7614027
3	510 BRUCE D MCCULLEN	2 6635814
5	511 RAYMOND E ANDERSON	□9960886
2	*FRAMECORP	□9960886
5	515 K ZIMBELMAN	-9952756
4	517 THOMAS JAROSZYK	5 7691058
5	61B BELYNDA BAFS	3 6620954
	602 NICK CAVAR	9 6635085
4	606 MARC P FREY	4 7693591
6	W MEYER	4 9951054
3	L ZEEFF	4 9951054
6	610 WALTER LEPEAK	9 6654205
0	RON PATTERSON	2 6633219
1	SANDRA PRESSWOOD	4 9954172
	619 RICHARD FISHER	-6637269
	STEPHEN KUNSELMAN	5 668B365
	S M LEWENZ	□6637269

T AS AUTHORIZED IN WRITING BY THE PUBLISHER.

## N MAIN ST 1982

531	R P CARZOLI JR	-9950658
	GREG S GALLOPOULOS	9950658
532	CHARLES L KRUGMAN	-6635429
	PATRICIA POHL	▣6652062
533*	CLARK-BAR	▣9965766
	PAUL MARTIN	0 6634991
534	DIANE KLOCK	-6686514
	JOHN SOKOLOW	-9940283
536	PAUL M HEININGER	0 6629696
537		NP
538	MERLE J STOKER	6 6635525
	PAT STOKER	6 6635525
539		NP
542	LARRY WOOD	▣9943386
543*	SEN E C PIERCE	▣6654672
	*SYRON CORP	6681314
544	G J LINDENSCHMIDT	0 6659231
607	MRS C FALCONE	6626457
	PAUL C MCCOY	6626457
608*	ORUG HELP INC	9944357
	*NETWORKS	▣9944357
	*OZONE HOUSE	6622222
611	DAVE KADLECEK	0 6651379
612	KEITH T BURLEIGH	0 6628260
	A S PERRONE	9 6628260
613*	MCCOYS MARKET	6621507
614	RONALD E KRAMER	3 6657348
615		NP
618	DEBRA SZEMBORSKI	▣6637349
622	P HUDAK	▣9954140
625*	CTY MOOL CHLD CARE	6626571
	*CITY COMM CENTER	6623128
	*CTY MODEL TRANSPRT	6623120
	*CTY MDL CITIES PG	6623128
	*ANN ARB COMTY CTR	6623128
	*MDL CTY PROGRAM	6623128
	*MDL CTS PRG CCC	6626571
626		NP
630	ANNE E SULLIVAN	-6681834
700	JOE W CANNON	6686795
708	CHARLES HESSION	0 6621081
712	EDWARD T NEFF	6687956
	MRS LYDIA TAYLOR	6627510
717	HENRY A ELSIFOR	6635804
718	JESSIE ALLEN	6635301
	ROBERT J LEGGETT	6657400
721*	CTY SOLID WST FLO	9942771
	*CITY SIGNS&SIGNALS	9941619
	*CITY STEET MNTNCE	9941617
722	ALZA L BAXTER	J 6688055
724	DEBORAH C GRUBBS	9958737
	FRED A JONES	▣9951853
730*	KING BARBECUE DLCT	7691635
731*	J L RAGLAND ATTY	6624981
803	ANTHONY BREWER	7 7613470
805*	ANN ARBOR TATTOO	6654664
807	RUTH MARIE ARDNER	7616447
808	811 813 815	NP
906*	PERFECT MOTION	▣9951888
907*	AAA AUTO SERVICE	6653725
	*AAA AUTO GLASS	6653725
	*ANN ARBOR AUTO RS	6653725
	*ANN ARBOR AUTO SV	6653725
	*ANN ARBOR RUSTPRFG	6653725
	*POLY-OLEUM RUSTPRF	6653725
909*	ANN ARBOR AUTO SRV	6625546
912*	ABORTION CLINIC	7698530
	*EXPRESS TEEN PLNNO	7698367
	*PLANNED PARENTHOOD	7698530
	*CO PLANNEO PARENTC	7698530
920*	CLARK DEVLPT LAB	9943289
	*EVANS WEIGHING	6636964
936*	OVERSEAS IMPT CARS	6622541
	*OVERSEAS IMPORTEC	7616873
	*OVERSEAS IMPT CAR	6653428
940*	PLASTIC PROCESSNG	9964787
944*	WIREWORKS	▣6637013
1035	A HERNANDEZ-LOZANO	6650902
1036		NP
1039	FRANK DEFILLIPI	6688902
1041	MICHAEL W BOTT	▣6652909
1043	C KARJALA	▣6686476
1100*	P LANSKY&SONS SLVG	6688814
1200*	LANSKY LWN SV&SNOW	6631466
	*PRINTWORKS	▣6650717
1202*	A-SCOTT CORP	6632023
	*ASCOTT CORP TXTL	6632023
	*SCOTT-A CORP	6632023
1206*	ALPHA METAL FINSHG	7619275

## W SUMMIT ST 1982

SUMMIT W		48103	
...	100- 199 T	7	SE..C 3
.E.	200- 898 T	1701	SA..B 2
.O.	201- 899 T	7	SE..C 3
111	A CHRISTINE AYCOX	□6657617	
	ROSA MAYS	6	9943476
112	LYNN BELL		6627247
113	LARRY MITCHELL	9	6658047
114	JOHNNIE H OEW	□6655645	
117	JESSE R JACKSON	□9953520	
118	CLAUDE PAYNE		7612771
124*	C&J BODY SHOP		6687752
200	MRS HAZEL FIELOS		6625145
201	EZEKIEL JOHNSON	5	9940865
204		NP	
206	IRVEN ARNOLO		6621824
207	ROBERT SCOTT		6629435
208	TOM FRANKS	□9968053	
	PHREO PETERSEN	9	6633068
210	MALCOLM E MILLER		6631215
211	MRS JAMES GUSTER		6635212
212	JEAN BOWEN		6637466
	CHARLIE PATRICK		6628255
213	CHARLES LARKINS JR6		9955688
	CHARLES J LARKINS		6627923
215	BEN MOODY		7617889
220	MICHAEL LYNCH	□9940871	
223	CHARLES G FIELOS		6631886
	B A JACKSON	4	6631886
224	CHARLES KELLER	0	9962977
300	JOE MCFADDEN		6622086
301		NP	
304	WILCHIE C BURCH		6656733
307	ERNEST C BRIEGEL		6632749
314	REV JOHN A WOODS		6635069
401	GILBERT MOROSKY		6627106
402		NP	
403	RONALD MEYERS	0	6622759
404	CAREY CULBERTSON	9	6652199
408		NP	
414	WALTER JOHNSMILLER		6620795
508	DALE MILLER		-9952530
510	RICARDO BARTELME	8	7693361
511	D W STEEL	8	6625954
515	JAMES HANSEN	6	9953592
	P THOMPSON	8	9953592
517		NP	
518	E M BAFS		6622496

MAY NOT BE KEY PUNCHED ENTERED INTO A COMPUTER OF

## N MAIN ST 1977

	VINCE MCDERMOTT	5	7611046
	MARK OOELL	5	7611046
425		NP	
427*	GALLATIN REALTY CO	□	9941202
	*P O WHITE INS		6635447
	*PAUL O WHITE INS		9943388
S01		NP	
509	TIMOTHY C CLARK	5	6652467
	PAUL CONLON	□	9951913
	MICHAEL ERWIN	4	7698379
	CARY E JOHNSON	2	6639228
	K S LEE	□	9954975
	JOYCE SKOVRONSKI	5	7690098
S10	FRANK T MALTBY		6638737
514	TIMOTHY W OSIUS	3	7617786
	TIMOTHY W OSIUS	3	9951739
S15	J YEARGAIN	3	6639992
S19	GREG YEARGAIN	5	7696290
520	O W RICHMOND	7	7610431
521	P A LONGWORTH		6631036
	V A LONGWORTH	4	6621204
522	EDWARD KLOTZ		6635802
523	DOUGLAS GRAHAM	□	6637969
	HENRY O JEFFRIES		NC22103
	JAMES L PAPADELIS	1	7691492
	PAUL RENAUD	5	9945447
S26	MARY VALENTIME	5	NC88966
S27	HARRY WHITE		NC23682
S31	PAUL MALBOEUF	5	7691895
532	MARK ALTGELT		-7612768
	ROBERT J BELL	5	6650702
	RONALO CARTIN	□	9952723
533	CARL J COLE	4	6656437
	SUSANNE PECKHAM	3	6621451
S34	ALAN RUTA	□	6620244
S36	MRS M HEININGER		6620863
S37	G J LINDENSCHMIOT		-6659231
538	MERLE J STOKER	□	6635525
	PAT STOKER	□	6635525
539	A K J VORSTER	3	6627400
S42	PAUL HANRATH	3	6654572
	GREGORY MANN		-6654572
S43*	NGHBRHO ACTION CTR		7693771
S44	RUTH WILLS	□	6630293
607	MRS C FALCONE		6626457
	PAUL C MCCOY		6626457
608	RANOALL FIELD	□	9940237
	CRAIG KELLSTROM	□	9940237
	JOHN MARTIN		-9940237
611	MICHAEL MANNON	□	9944172
	JOSEPH SZYPERSKI		-9944172
612	JOHN A MAHONE	□	9955319
	STEPHEN W ROBINSON	□	9940663
613*	MCCOYS MARKET		NC21507

AS AUTHORIZED IN WRITING BY THE PUBLISHER

## N MAIN ST 1977

ANN ARBOR		1976-1977
	.....	48104
614	RONALD E KRAMER	3 6657348
615	JAYE WILSON	2 6659504
618	ALICE REDDIC	3 6627838
622	RANDY EIBLER	□7636022
625	*CTY MODL CHLD CARE	6626571
	*CTY MOOEL TRANSPRT	6623128
	*ANN ARBOR YTH DVLP	6624593
	*ANN ARB COMTY CTR	6623128
	*MODEL CITIES PRGRM	6626571
	*MOL CTY PROGRAM	6623128
626	WILL AUSTON	5 9945334
630	WALTER ROGACZEWSKI	-7610594
700	JOE W CANNON	6686795
708	A ERBLAND	6627564
	L WINT	N021081
712	EDWARD NEFF	7 6624263
	*NEFFS BAIT HSE	6624263
	MRS LYDIA TAYLOR	8 N027510
717	HENRY A ELSIFOR	6635804
	MERIDEL PRIEST	1 7616915
	CHARLOA WYMAN	1 7616915
718	JESSIE ALLEN	6635301
	ROBERT J LEGGETT	1 6657400
722	ALZA L BAXTER	3 6688055
724	DEBORAH C GRUBBS	6624691
730	*BAR-B-QUE KING	6630555
	*EDDIES RECORD SHOP	6689530
	*QUICK STOP	□6630555
731	*J L RAGLAND ATTY	6624981
800	*SUPER TEST PET INC	6689494
803	BERNICE DAVIS	□9954586
807	RUTH MARIE ARONER	8 7616447
808		NP
811		NP
815		NP
906	*MAIN&DEPOT SPEEDWY	□9949698
907	*TOYOTA ANN ARBOR	7697935
912	*ABORTN CLC PLO PHO	□7698530
	*EXPRESS TEEN CLUB	7698367
	*PLANNED PARENTHOOD	7698530
	*CO LGUE PLN PRNTHD	7698530
920	*EVANS WEIGHING	-6636964
936	*OVERSEAS IMP CARS	6622541
	*OVERSEAS IMPORTED	7616873
	*OVERSEAS IMPT CAR	6653428
1035		NP
1036		NP
1039	FRANK DEFILIPPI	N088902
1041	M ERLEWINE	3 6636677
1043	C W FRENCH	□6658469
1100	*P LANSKY&SONS SLVG	6688814
1106	*HAUGHTON ELEVTR CO	6634237

## W SUMMIT ST 1977

20 RESIDENCE		1 BUSINESS	
SUMMIT W			48103
...	100- 199 T	7	\$E..C 3
.E.	200- 898 T	1701	\$A..B 2
.O.	201- 899 T	7	\$E..C 3
111	ROSA MAYS		-9943476
112	LYNN BELL		6627247
113		NP	
114	ELMER KNOX		NC55645
	LEARIE YUILLE		NC55645
117		NP	
118	CLAUDE PAYNE		7612771
124*	C&J BODY SHOP		6687752
200	MRS HAZEL FIELOS		6625145
201	EZEKIEL JOHNSON	5	9940865
204		NP	
206	IRVEN ARNOLD		6621824
207	ROBERT SCOTT		6629435
208		NP	
210	MALCOLM E MILLER		NC31215
211	MRS JAMES GUSTER		NC35212
212	JEAN BOWEN	7	NC37466
	CHARLIE PATRICK		NC28255
213	CHARLES J LARKINS		NC27923
215	GEORGE T FRAZIER	0	6628730
	BEN MOODY		NC28773
220	MARGARET WOLFE	□	6625941
223	CHARLES G FIELOS		6631886
	8 A JACKSON	4	6631886
224	HAZEL HANDS	7	6634504
	R E JONES		7615590
300	JOE MCFADDEN		NC22086
301	OTIS GULLEY	7	6656623
304	WILCHIE C BURCH		NC56733
307	ERNEST C BRIEGEL		6632749
314*	BETHEL AME CH P5GM	□	NC35069
	REV JOHN A WOODS		6635069
401	GILBERT MORDESKY		NC27106
402		NP	
403*		NP	
404	RONALD M WESTRUM	4	7698636
408	LEONARD YARRINGTON	□	7690023
414	WALTER JOHNSMILLER		6620795
	MICHAEL G KOTELES	5	7619372
508		NP	
510		NP	
511	JOHN J PRINCE		6620660
515	JAMES HANSEN	□	9953592
	FRED SWARTZ	□	9953592
517	J B JAROSZYK		6624114
518	E M BAFS		6622496
602	E HERSHEY	5	7636013
606	ERNEST SHELDON		-6655811
610	GARY C CASKEY	4	9940796
	THOMAS R HENRY	□	9952426
	DORVAN KARR	4	6636779
	RAY T KOIVISTO	□	9951645
	DANIEL NOLEN	5	9944617
	PAUL B WIENER	□	9949098
619	E IRVINE	□	6633498
621	R S TRIMMINGHAM	9	6637429
628	NICHOLAS FICHTER	□	9953757
631	STEVEN KUZMA		-9951646
	THOMAS WOODWARD	4	6650297
632	S H HEORODT		NC86194
638		NP	
817	A SHIPLEY		NC86753
820	C CHERNISS	5	9949272

## N MAIN ST 1972

521	P A LONGWORTH	6631036
522	EDWARD KLOTZ	6635802
523	JAMES L PAPADELIS	#7691492
	MAY BOWERSOX	6637969
	HENRY O JEFFRIES	N022103
526	BERT ROOT	N088966
527	HARRY WHITE	N023682
531	PETER W ANDREWS	9 7613670
	*S R C INC	7613670
532	ELAINE KELSAY	#6655546
533		NP
534	C E CDCK	N021310
536	MRS M HEININGER	N020863
537		NP
538		NP
539		NP
542		NP
543	*NGH8RHD ACTION CTR	#7693771
544	DRLIE R KARNES	6627786
	*IOEAL WNOW CLNGN	6627786
603	G J LINDENSMIDT	6659231
	L H DEX DECKER	0 6659231
607	MRS C FALCDNE	6626457
	PAUL C MCCDY	6626457
608	FRANK MOORE	-7613563
611	KENNETH W STERLING	#7697286
612	JILL STONE	#7611739
613	*MCCOYS MARKET	N021507
614	SALLY CHISM	9 6631481
615	REV S BURRDUGHS	#7696735
618		NP
622		NP
625	*ANN ARE COMTY CTR	6623128
626		NP
700	JDE W CANNON	6686795
708	A ERBLAND	6627564
	MRS LUCY WINT	N021081
712	MRS LYDIA TAYLOR	8 N027510
	EDWARD NEFF	6624263
	*NEFFS BAIT HSE	6624263
717	MERIDEL PRIEST	#7616915
	CHARLOA WYMAN	-7616915
	HENRY A ELSIFOR	N035804
718	ROBERT J LEGGETT	#6657400
	JESSIE ALLEN	6633301
721	*CITY MUNCL GARAGE	6686709
	*ANN ARB GARG MUNCP	6686709
722	RALPH H BAXTER	#6688055
724	DEBORAH C GRUBBS	N024691
730	*TOWN&CNTRY RSTRNT	#7692330
	*TOWN&CNTRY BARBER	6689224
	*DUBOSES BEAUTY SHP	6689241
800	*SUPER TEST PET INC	6689494
803		NP
807	RUTH MARIE ARONER	8 7616447
808		NP
811		NP
815		NP
906	*RALPH CODN SERV	N089218
907	*TOYOTA-ANN ARBOR	#6638567
936	*DVERSEAS IMP CARS	6622541
	*DVERSEAS IMP CARS	6650051
1035	BENEDICT LAROSA	7612557
1036		NP
1039	FRANK DEFILIPPI	N088902
1041		NP
1043	L CARTER	#7612363
1100	*P LANSKY JNK OLR	N088814
1196	*HAUGHTON ELEVTR CD	6634237
1200	MCINTOSH LAHTI	0 7611900
	*LAHTI OF ANN ARBOR	7611900
	*ANODEX CORP	7619275
	*MODERN PATTERN WKS	7695876
	*MORNSONS INC	7696326
1212	*RDAO SPORT INTERNL	#6688338
	*AA SCHL STOCK ROOM	6623395
1251	*ROBEY TIRE SERVICE	N033391
	*ROBEY TIRE SERVICE	N087901
1253		NP
1254	*ECONOMY 8ALER CO	N024523
1257	*ALANO CLUB	#6689551
	ERNEST H CASTNER	9 7617809
	*VETERANS CABS	6635800
	*VETERANS CABS	6634545
	*VETERANS CABS	6624477
1313	CATH MERIWEATHER	#7693777
1315	C W WILLIAMS	6639145
1319	JOHN R HARRISON	9 7693089
1329		NP
1342	*MICH TESTNG ENGRS	-7618222
	*ELCTRNC SERV CNTR	#6621247
	*ONEAL CONSTR	7690770
	*LENZ FILTER DIV	6636711
	*AA YELW&CHKR CAB	N033355
	*YELLOW CAB CO	N033355
	*NEVINS RADIO&TV SV	6621247
1346	*QUALITY MOTOR SERV	7611230
	*ANKER DATA SYSTMS	6627226
	*FREEWAY SERVICE	6689782
1352	*E L CUSHING	6622283
1353	*F EVANS CORP	#7695407
1354	*CUSHING-MALLOY INC	6638554
	*CUSHING-MALLOY INC	6626238
	*THE ANN ARB GRINOR	N020386
1360	*LEISURE-TRON CORP	6653648
	*SPUNTECH HOUSING	7696543
1380	*UNITED SUPPLY CO	6623213
1485	E SCHIMELPFENIG	6658340
94	RESIOENCE	100 BUSINESS

## W SUMMIT ST 1972

17 RESIDENCE

## SUMMIT W

48103

111	THOMAS MITCHELL	6628748
112	LYNN BELL	N027247
113		NP
114	ELMER KNOX	N055645
	LEARIE YUILLE	N055645
117		NP
118	CLAUDE PAYNE	7612771
124*	8LAESS COAL CO	N057133
200	MRS HAZEL FIELOS	6625145
201		NP
204		NP
206	IRVEN ARNOLO	6621824
207	ROBERT SCOTT	6629435
208	ROSIE LEE BEARO	0 7615735
210	MALCOLM E MILLER	N031215
211	MRS JAMES GUSTER	N035212
212	CHARLIE PATRICK	N028255
	JEAN BOWEN	N037466
213	H HOCKING	□7613588
	CHARLES J LARKINS	N027923
215	GEORGE T FRAZIER	0 6628730
	BEN MOCODY	N028773
220		NP
223	CHARLES G FIELOS	6631886
224	HAZEL HANOS	6636851
	HATTIE STEPHEN	0 6622425
	R E JONES	7615590
300	JOE MCFADOEN	N022086
301	OTIS GULLEY	6656623
304	WILCHIE C BURCH	N056733
307	ERNEST C BRIEGEL	6632749
314	JOHN A WOODS JR	□7613224
	REV JOHN A WOODS	6635069
	*BETHEL AME CHURCH	□N035069
401	GILBERT MOROSKY	N027106
404	KATHERINE MITCHELL	□6652827
408	OPHELIA YARRINGTON	
		0 7690023
414	TOM NAQAR	-7619372
	WALTER JOHNSMILLER	N020795
508	GOLOIE P TOWNES	□7617642
S10		NP
S11	JOHN J PRINCE	N020660
S15	FRIEDRICH H BAUSCH	6629679
S17	J B JAROSZYK	6624114
S18	EMMA BAUS	6622496

OR PHOTOCOPIED IN ANY MANNER WHATSOEVER EXCEPT AS AUTHORIZED

## N MAIN ST 1967

42 ANN ARBOR		
427*	PAUL E SCHNEIDER	6686415
	*SCHNEIDER REAL EST	6686415
501	JOSEPH SHERBERT	6624035
	LORA LECHIEN	6626481
	LEROY A LOTT	6622217
510	FRANK T MALTBY	6638737
514	WILMER PERKINS	N020954
515*	TRUCK CUSHION EXCH	N028519
520	D W RICHMOND	6624331
521	PAULINE LONGWORTH	6631036
522	EDWARD KLOTZ	6635802
523	FRANCES TOOHEY	N055060
	MAY BOWERSOX	6637969
	V A LONGWORTH	6657205
	HENRY O JEFFRIES	N022103
526	BERT ROOT	N088966
527	HARRY WHITE	N023682
532	JOSEPH M COOK	6686231
	ERNEST PAULI	N021133
533	A A LAU	N020763
	MILDRED B GAINNEY	N028500
534	FRANK G GILLETTE	6650753
	C E COOK	N021310
536	MRS M HEININGER	N020863
538	HAROLD V VOELKER	6652398
539	GERALD A SCHMITT	6657132
542	WM HIERONYMUS	6628666
	STEPHEN E SELANDER	6628666
544	ORLIE R KARNES	6627786
	*IDEAL WNDW CLNGN	6627786
603	G J LINDENSCHMIDT	6659231
607	MRS C FALCONE	6626457
	PAUL C MCCOY	6626457
608	LUCILLE MCKAY	7610168
611	MERLE J STOKER	6657245
613*	MCCOYS MARKET	N021507
615	CLARENCE CAMPBELL	7619277
	OTIS JOHNSON	7615453
618	RHODA JUIDE	6633854
622	JOHN W EATON	7617650
625*	ANN ARB COMTY CTR	6623128
626	ROY C MASON	7612833
700	JOE W CANNON	N086795
708	MRS LUCY WINT	N021081
	A ERBLAND	6627564
712	EDWARD NEFF	6624263
	*NEFFS BAIT HSE	6624263
	ALVIN NEFF	N027510
717	HENRY A ELSIFOR	N035804
	RICHARD C NORDRUM	6629584
718	JESSE ALLEN	N035591
721*	ANN ARB GARG MUNCP	6686709
	*NEVINS RADIO&TV SV	6621247
722	RALPH H BAXTER	6688055
724	DEBORAH C GRUBBS	N024691
730*	CANNON WIGS	6625929
	*TOWN&CNTRY BARBER	6689224
	*DUBOSES BEAUTY SHP	6689241
800*	SUPER TEST PET INC	6689494
808	FRED E SHEPHERD	N027295
811	MRS JENNIE WEAVER	N056661
	KATHLEEN SURGEST	N056661
906*	RALPH COON SERVICE	N089218
907*	LEE OLDSMOBILE INC	6630507
936*	AIRCOOLED MOTORS	6650051
940*	R E HART MANFCTRNG	N031953
1035	BENEDICT LAROSA	7612557
1039	FRANK DEFILIPPI	N088902
1041	G W BURD	N020316
1043	DARWIN R SPEARING	7612363
1100*	P LANSKY JNK DLR	N088814
1200*	MODERN PATTERN WKS	6650613
	*MONSON CABINET WKS	6650613
1212*	STOCK ROOM	6623395
1251*	ROBEY TIRE SERVICE	N087901
	*ROBEY TIRE SERVICE	N033391
1253	MRS STELLA GULLEY	N034063
	JAMES GULLEY	6627145
1254*	ECONOMY BALER CO	N024523
1313	WALTER C BLALOCK	6630838
1315	CLARENCE WILLIAMS	6639145
1329	T R CONNOR	N024330
1340*	ANN ARBOR ARMS&SPR	6630135
1342*	NEEDLE ARTS INDSTR	6629569
1346*	FREEWAY SERVICE	6689782
1352*	WOLVERINE MFG CO	N023181
	*E L CUSHING	N023181
1354*	THE ANN ARB GRINDR	N020386
	*SARNS INC	6634145
1355*	US HLTH EDU&WELFRE	6638541
	*MICH VOCTN RHBLTN	7615900
1360*	CRYSTAL OPTICS INC	6632481
1380*	HURON VLY PRD WLL	6624208
	*GLAMOUR HOMES	6624518
	*DESIGND GLAMR HMES	6624518
1485	E SCHIMELPFENIG	6658340
	79 RESIDENCE 81 BUSINESS	
MAIN S		48108

## W SUMMIT ST 1967

	SUMMIT W	48103
+		
+		
5		
+	111 THOMAS MITCHELL	6628748
	112 LYNN BELL	N027247
	113 CLARA B RIDEOUT	6657119
+	HATTIE HALL	6635128
	114 ELMER KNOX	N055645
9	LEARIE YUILLE	N055645
5	117 J D KEARNEY	N054527
9	118 CLAUDE PAYNE	7612771
+	124*BLAESS COAL CO	N057133
7	200 MRS HAZEL FIELDS	6625145
5	201 LISLE D MAYERS	N026497
	204 CECELIA H KNOX	6654259
+	206 IRVEN ARNOLD	N021824
	207 ROBERT SCOTT	6629435
0	208 BERTHA L BROWN	7614531
+	210 MALCOLM E MILLER	N031215
9	211 MRS JAMES GUSTER	N035212
9	212 JEAN BOWEN	N037466
+	CHARLIE PATRICK	N028255
7	213 MONROE NASH JR	6655830
5	CHARLES J LARKINS	N027923
8	215 WILLIAM W NEWMAN	6653456
9	BEN MOODY	N028773
+	220 WILLIE B SMITH	6659693
9	ADEBISI M OLUSANYA	6628584
8	223 CHARLES G FIELDS	N031886
5	224 HAZEL HANDS	6636851
5	R E JONES	N021148
5	300 JOE MCFADDEN	N022086
2	301 OTIS GULLEY	6656623
9	304 WILCHIE C BURCH	N056733
+	307 ERNEST C BRIEGEL	N032749
1	314 REV JOHN A WOODS	N035069
1	*BETHEL AME CHURCH	N035069
3	401 GILBERT MORDSKY	N027106
5	403 GEORGE H SANDERS	N026026
5	404 DOROTHY PATTERSON	6656662
2	414 JUNE MCKEE	7611205
5	WALTER JOHNSMILLER	N020795
+	510 KARL F WURSTER JR	6621242
+	511 JOHN J PRINCE	N020660
3	515 FRIEDRICH BAUSCH	N029679
1	517 J B JAROSZYK	6624114
0	518 EMMA BAFFS	N022496
	606 RALPH M TERRAZAS	7619234
4	COREAN M WILLIAMS	6658264
5	610 GARY L PETZOLD	6638246
4	KENNETH E MOHL	7616227
5	DONALD D MACMULLAN	7617598
4	ROANN OGAWA	6621778
7	621 H L TRIMMINGHAM	N035462
2	628 JAMES H HARLESS	6634049
3	631 H B CLARK	N023861
5	632 S H HEOROUT	N086194
4	638 KENNETH DUQUAINE	6655364
1	LESTER HORTON	7612645
6	817 A SHIPLEY	N086753
4	55 RESIDENCE	2 BUSINESS
5		
4	SUNNYSIDE	48103

## N MAIN ST 1964

121

## MAIN N—Contd

522 Klotz Edw C © NO3-5802

## 523 Apartments

- 1 Bowersox May Mrs 663-7969
- 2 Jeffries Henry O NO2-2103
- 3 Clark Evelyn E NO2-6124
- 4 Toohey Frances E 665-5060
- 5 Moseuk Jack

## Street continued

- 525 Beck Lelia
- 526 Root Bert C © NO8-8966
- 527 White Harry H © NO2-3682
- 529 Hadley Glen © NO5-4502
- 531 Vowell Georgia Y Mrs © NO2-4026
- 532 Berger Etta M Mrs © NO2-1133  
McCabe Ferne Mrs NO3-6080
- 533 Lau Albert A © NO2-0763
- 534 Cook Edna A 662-1310  
Brown Jesse 665-8220
- 536 Heininger Ida M Mrs © NO2-0863
- 537 Stahl John C
- 538 Vacant
- 539 Bartz Jarold M 662-1101
- 542 Hayes Ruth Mrs
- 543 Vacant
- 544 Karnes Orlie R 662-7786

## Felch begins

- 603 Tubbs Coml & Tourist Rooms  
NO2-2184  
Tubbs Claudia B Mrs © NO2-2184
- 604 Lindenschmidt Grant J © NO5-9231
- 607 Falcone Carmela Mrs © NO2-6457  
McCoy Paul C
- 608 Shay John E NO5-5842  
Hirayama Tumio 663-3655
- 611 Stoker Merle
- 612 Ideal Window Cleaning & Janitor  
Serv 662-7786
- 613 McCoy's Mkt gro NO2-1507
- 614 Botchen Myra Mrs © NO2-1971
- 615 Johnson John H 663-6542  
Campbell Geo
- 618 McEldowney Kenneth 663-6168  
Griffin Jas E 665-2397
- 622 Donahue Clara L Mrs © NO2-2293
- 625 AA Community Center Inc  
NO8-7784
- 626 Philips A J ©  
Barnes Corine NO5-6204
- 630 Wright Gertrude © NO2-4251
- 700 Cannon Jos W © NO8-6795
- 708 Wint Lucy M Mrs © NO2-1081
- 712 Neff's Bait Hse NO2-4263  
Neff Alvin C © NO2-7510  
Neff Edw T © NO2-4263
- 717 Trubey Russell D 665-3402  
Elsifor Henry A NO3-5804
- 718 Allen Jesse NO3-5301

721 Municipal Garage NO3-1611  
Dept of Pub Works (outside ofc)  
668-6704  
Parking & Traffic Dept (Paint &  
Sign Shop) 663-7945 ext 215

## 722 Baxter Alza

- 724 Grubbs Deborah C © NO2-4691
- 730 Wash Land Indry NO2-7029
- 731-33 Ragland John L © 663-1828

## Summit intersects

- 800 Natl Oil Co bulk sta NO8-9575
- 803 Harrison John R 663-7085
- 805 White Hut restr
- 807 Ardner John J ©
- 808 Shepherd Fred E NO2-7295
- 810 Al's Market NO8-7315

## Depot begins

- 811 Surgest Kathleen E Mrs ©  
NO5-6661

- 906 Coon Ralph Serv gas sta NO8-9218
- 907 Zindell Oldsmobile Inc NO3-0507
- 912 U of M Research Institute (Space  
Physics Research Lab)  
NO3-1511

920 No return  
924-36 Volkswagen & Porsche Serv  
665-0051

Air Cooled Mtrs used cars  
NO5-0051

940 Hart R E Mfg Co machinery  
NO3-1953

944 White Pine Printers 665-4436

21

## AARR overpass

- 1035 LaRosa Benedict NO3-9470
- 1039 DeFillippi Frank © NO8-8902
- 1041 Burd Geo W NO2-0316
- 1042-1100 Lansky P & Sons junk  
NO8-8814
- 1043 Talbot Mildred E 663-2622
- 1200 Monson Cabt & Modern Pattern  
Works 665-0613  
Coverite Corp carp
- 1212 Reliable Movers Inc NO8-6755
- 1250-54 Economy Baler Co baler sups  
NO2-4523
- 1251 Robey Tire Serv NO3-3391
- 1253 Gully Jas NO2-7145  
Philpot Louise Mrs NO3-9755
- 1257 Wilborn Chas H
- 1307 Harrison Elma L Mrs ©  
NO5-6603

- 1311 Vacant
- 1313 Blalock Walter NO3-0838
- 1315 Williams Clarence 663-9145
- 1319 Dodson Clotine Mrs 665-2453
- 1329 Connor Torrence R © NO2-4330
- 1340 Ann Arbor Arms Inc guns  
663-6401

1342 Cellasto Inc plastics 662-4547  
Chemotronics Inc research  
665-3649

- 1346 Vacant
- 1350 Cushing-Malloy Inc litho  
NO3-8554
- 1352 Wolverine Mfg Co auto parts  
NO2-3181
- 1354 Ann Arbor Grinders NO2-0386  
Sarns Inc medical sups and equip  
663-3484

- 1355 Social Security Admn 662-3275
- 1360 Berry Industries Inc (electronic  
div) 663-7261
- 1380 Designed Glamour Homes Inc  
pre fab homes 662-4518

## Huron View blvd begins

## City limits

- 1485 Vacant
- 1914 Ann Arbor Constn Co (Asphalt  
Plant No 2) NO2-6261

## W Huron River dr begins

MCRR underpass  
Huron River Bridge

1

- MAIN S—From Huron south (dividing  
line for east and west streets)  
sw cor Ann Arbor Trust Building  
(For occupants 101-03 W Huron)
- 100 Ann Arbor Trust Co NO3-4231
- 101-07 Ann Arbor Bank NO3-3311
- 106 Vacant
- 108 R&S Shoe Store NO8-7006
- 109-11 Preketes Bros AA Sugar Bowl  
restr NO2-1414

## W SUMMIT ST 1964

19

**SUMMIT W—From 800 N Main west**

111 Mitchell Thos © NO2-8748  
 112 Bell Lynn P jr © NO2-7247  
 113 Manning Daisy B Mrs © NO2-2284  
 114 Knox Elmer L © NO5-5645  
 117 Kearney Ruth © 665-4527  
     Aycox Christine NO5-7666

118 Payne Claude

**119 Walker Marie Mrs ©**

124 Blaess Coal Co NO5-7133

**AARR crosses****Wildt begins****Hiscock begins**

200 Fields Hazel I Mrs © NO2-5145  
 201 Mayers Lisle NO2-6497  
 203 McLaughlin Ira ©  
 204 Knox Cecelia H Mrs © NO5-4259

**Edwards begins**

206 Arnold Irvn S © NO2-1824  
 207 Scott Robt M © NO2-9435  
 208 Wallace Uzziah  
 210 Miller Malcolm E © NO3-1215  
 211 Guster Margt L Mrs © NO3-5212  
 212 Patrick Chas G © NO2-8255  
     Bowen Jean NO3-7466  
 213 Larkins Chas J © NO2-7923  
 215 Moody Benj R © NO2-8773  
     Newman Wm 665-3456  
 220 West Lorraine Mrs NO5-8908  
 223 Fields Chas G © NO3-1886  
 224 Jones Rosie E © NO2-1148

**Daniel intersects**

300 McFadden Jos © NO2-2086  
 301 Small Essie M Mrs © 663-3977  
 304 Burch Wilchie C © NO5-6733  
 307 Briegel Ernest C © NO3-2749  
 314 Parks Lyman S Rev NO3-5069  
 401 Mordsky Gilbert © NO2-7106  
 403 Sanders Geo H © NO2-6026  
 404 Southern Edw C NO3-8858  
 408 Russell Geraldine Mrs 665-5791  
 414 Johnsmiller Walter P © NO2-0795  
     Carpenter Gerald 665-0719

**Spring intersects**

## N MAIN ST

1960

MAIN N—Contd

**Kingsley intersects**

19

**Beakes begins**

- 501 Davinson Vivian ΔNO2-4102  
 509 Niethammer Rosa M ©  
 ΔNO2-0747  
 510 Maltby Frank T © ΔNO3-8737  
 514 Perkins Wilmer R © ΔNO2-0954  
 515 Truck Cushion Exchange ©  
 uphol ΔNO2-8519  
 VanKleek Pherys K ©  
 ΔNO2-8519  
 Agle Elsie M ΔNO2-7139  
 519 Ayotte Chas H © ΔNO2-9662  
 520 Ream Amelia A Mrs © (tourist  
 rms) ΔNO8-6254  
 521 Longworth Pauline A Mrs ©  
 ΔNO3-1036  
 522 Klotz Edw C © ΔNO3-5802
- 523 Apartments**  
 1 Heffington Loren W ΔNO3-3848  
 2 Jeffries Henry ΔNO2-2103  
 3 Clark Evelyn E ΔNO2-6124  
 4 Moore Robt C ΔNO3-9297  
 5 Vasher Jas S  
 525 No Return  
 526 Root Bert C © ΔNO8-8966  
 527 White Harry H © ΔNO2-3682  
 529 Robinson Robt D © ΔNO3-5186  
 531 Vowell Georgia Y Mrs ©  
 ΔNO2-4026  
 532 Humphrey Jessie  
 McCabe Ferne Mrs ΔNO3-6080  
 Berger Fred A © ΔNO2-1133  
 533 Lau Albert A ΔNO2-1133  
 534 Cook Edna A  
 Heffelbower Donald G ΔNO5-6817  
 536 Heininger Ida M Mrs ©  
 ΔNO2-0863  
 537 Kelley Woodrow E  
 538 Zill Emil J ΔNO2-6604  
 539 Heslet Ross C ΔNO3-4805  
 542 Collins Leada M Mrs ©  
 ΔNO2-2964  
 543 State Farm Mut Ins Co claims ofc  
 ΔNO3-8559  
 544 Thompson Wallace O ΔNO2-0735
- Felch begins**
- 603 Tubbs Coml & Tourist Rms  
 ΔNO2-2184  
 Tubbs Claudia B Mrs ©  
 ΔNO2-2184  
 604 Lindenschmidt Grant J ©  
 607 McCoy Paul C ΔNO2-6457  
 Falcone Carmela Mrs ©  
 ΔNO2-6457  
 611 No Return  
 612 Ideal Window Clng Co ΔNO2-7786  
 Karens Orlie R ΔNO2-7786  
 613 Tom's Gro ΔNO2-1507  
 614 Botchen Myra Mrs © ΔNO2-1971  
 615 Brennan Terrance T ΔNO5-6684  
 618 Payne Jessie A Mrs © ΔNO2-4382  
 Quigley Frona E © ΔNO2-4382  
 622 Donahue Clara L Mrs ©  
 ΔNO2-2293  
 625 A A Community Center Inc  
 ΔNO8-7784

- 626 Barnes Corine ΔNO8-8938  
 Mays Wm  
 Phillips A J © ΔNO3-6307  
 630 Wright Gertrude Mrs ©  
 ΔNO2-4251  
 700 Cannon Joe W © ΔNO8-6795  
 703 Day Eunice E Mrs ΔNO3-6862  
 706 Vacant  
 707 Harrison Emma G Mrs ©  
 ΔNO8-8398  
 708 Wint Lucy M Mrs © ΔNO2-1081  
 711 McKinney Sanford S © ΔNO2-2741  
 712 Neff Alvin C © ΔNO2-7510  
 Neff Edw T © ΔNO2-4263  
 Neff's Bait Shop ΔNO2-4263  
 717 Elsifor Henry A © ΔNO3-5804  
 718 Allen Jesse ΔNO3-5301  
 721 City Offices-Municipal Garage  
 ΔNO8-6709  
 722 Baxter Ralph H © ΔNO8-8055  
 724 Grubbs Deborah C © Indry  
 ΔNO2-4691  
 Griffith Roumsville  
 730 No Return  
 731 Ragland John L lwyer ΔNO2-4981  
 733 Ragland John L © ΔNO2-4981
- Summit intersects**
- 800 Super Test Serv Sta ΔNO8-9575  
 802 Vacant  
 803 Bird John W © ΔNO2-6234  
 Bird John R © carp contr  
 ΔNO2-6234  
 805 White Hut restr  
 807 Ardner John J © ΔNO2-2150  
 DeVine Wm ΔNO2-2150  
 808 Shepherd Fred E © ΔNO2-2795  
 810 A1's Market gro ΔNO8-7135
- Depot begins**
- 811 Surgest Kathleen E ©  
 906 Coon Ralph Serv gas sta  
 ΔNO8-9218  
 907-11 Krugh Bob inc auto sls & serv  
 ΔNO3-0507  
 912 UofM Research Institute  
 ΔNO3-1511  
 920 Government Ofcs-Bur of Coml  
 Fisheries ΔNO2-5529  
 924-36 Arnets monuments  
 ΔNO8-8914  
 940 Hart R E Mfg Co counting equip  
 ΔNO3-1953  
 944 Vanguard Corp development eng  
 ΔNO3-9969

21

**AARR overpass**

- 1030 DeFillippi Bridgett Mrs ©  
 ΔNO8-9002  
 1035 LaRosa Benedict  
 1041 Vacant  
 1042-1100 Lansky P & Sons junk dlrs  
 ΔNO8-8814  
 1043 Vacant  
 1200 Mich Foam Sls Co foan rubber  
 ΔNO3-4229  
 1212 Reliable Movers moving  
 ΔNO8-6755  
 1250-54 Economy Baler Co mfrs  
 ΔNO2-4523  
 1251 Robey Tire Serv ΔNO3-3391  
 ΔNO8-7901  
 1253 Gulley Jas ΔNO2-7145

CONSTR

R. E. Davis Construction Company

## W SUMMIT ST 1960

19

**SUMMIT W—From 800 N Main west to  
Brooks**

- 111 Mitchell Thos © ΔNO2-8748  
 112 Bell Lynn P jr © ΔNO2-7247  
 113 Manning Daisy B Mrs ©  
 ΔNO2-2284  
 Spencer Jack  
 114 Knox Elmer L © ΔNO5-5645  
 117 Aycox Christine ΔNO5-7666  
 118 Payne Claude © ΔNO3-3459  
 119 Walker Marie Mrs ©  
 123 Webber John W ΔNO8-7818  
 124 Blaess Coal Co ΔNO5-7133

**AARR crosses****Wildt begins****Hiscock begins**

- 200 Fields Hazel I Mrs © ΔNO2-5145  
 201 Shelby Chester ΔNO2-9243  
 203 Wallace Ralph © ΔNO2-6054  
 204 Knox Cecelia Mrs © ΔNO8-9795

**Edward begins**

- 206 Arnold Irvn S © ΔNO2-1824  
 207 Scott Robt M © ΔNO2-9435  
 208 Corley Mary M Mrs ©  
 ΔNO2-1495  
 210 Miller Malcolm E © ΔNO3-1215  
 211 Guster Margt L Mrs ©  
 ΔNO3-5212  
 212 Patrick Chas © ΔNO2-8255  
 213 Larkins Chas J © ΔNO2-7923  
 Daniels Jean ΔNO3-2138  
 215 Moody Benj R © ΔNO2-8773  
 Johnson Henry  
 220 McLilley Chas E  
 223 Fields Chas G © ΔNO3-1886  
 224 Jones Rosie E © ΔNO2-1148

**Daniel intersects**

- 300 McFadden Jos © ΔNO2-2086  
 301 Jones Bennie ΔNO5-5952  
 Alexander Duke ΔNO3-5297  
 304 Burch Wilchie C © ΔNO5-6733  
 307 Briegel Ernest C © ΔNO3-2794  
 314 Parks Lyman S Rev ΔNO3-5069  
 401 Morsky Anna Mrs © ΔNO2-7106  
 403 Sanders Geo H © ΔNO2-6026  
 404 Shuey Danl R ΔNO2-8824  
 408 Bublitz Arth T ΔNO3-9284  
 414 Johnsmiller Walter P ©  
 ΔNO2-0795

**Spring intersects**

- 508 Chamberlaine Joyce ΔNO2-5823  
 510 Wurster Karl F ΔNO2-1242

**Hillcrest dr begins**

- 511 Prince John J © ΔNO2-0660  
 515 Bausch Eliz Mrs © ΔNO2-7679  
 517 Jaroszyk Jos B © ΔNO2-4114

LEWIS G. CHRISTMAN

✓

**N MAIN ST      1955**

Mrs  
 543Δ State Farm Mutual  
       Auto Ins Co  
       (field claim ofc)  
 544Δ Livesay Thelma A  
       Mrs  
       **Felch begins**  
 603Δ Tubbs Claudia B  
       Mrs ©  
 604Δ Lindenschmidt  
       Grant J ©  
 607Δ McCoy Paul C  
       Falcone Carmela  
       Mrs ©  
 608Δ Hickerson Virginia  
 611Δ Kussurelis Thos ©  
 612Δ Tighe Chas D  
       Δ Conklin Robt  
 613Δ Kussurelis Thos  
       gro  
 614Δ Botchen Myra  
       Mrs ©  
 615Δ Saito Morse T  
 618Δ Payne Jessie A  
       Mrs ©  
 619Δ Reese Robt ©  
 622Δ Donahue Allen K ©  
 626Δ Milford Clifford J  
 627 Muenson Chas  
 630Δ Wright Chas E ©  
 700Δ Cannon Jos W ©  
 703Δ Bedolla Jos ©  
 706 Jones Eddie ©  
 707Δ Harrison Emma G  
       Mrs ©  
 708Δ Wint Lucy M Mrs ©  
 711Δ McKinney Sanford  
       S ©  
 712Δ Neff Alvin S  
       Δ Neff Edw T ©  
 717Δ Elsifor Henry ©  
 717½Δ Agle Elsie M Mrs  
 718Δ Locus Marie E  
 721Δ Municipal Garage  
       City Street Dept  
 722Δ Baxter Ralph H ©  
 724Δ Grubbs Deborah  
       Mrs Indry  
 730Δ Robey Tire Serv  
 731Δ Ragland John L  
       lwyr  
 733Δ Ragland John L ©

## N MAIN ST 1955

MAIN N--Contd

**Summit inter-  
sects**800ΔFleetwing Filling  
Station802ΔBilski Bertha Mrs©  
barber

803ΔBird John R ©

805ΔWhite Hut restr

807ΔArdner John J ©

808 Shepherd Fred E

810ΔAl's Market

**Depot begins**811ΔGrayer Wm D ©  
mason contr906ΔCoon Ralph Serv  
gas sta907ΔUniversity Mtr Sls  
Inc911ΔUniversity Mtr Sls  
(used cars)

912 Vacant

918ΔStoebler and Son  
Assoc920ΔAero Radio Sls &  
Serv924-36ΔArnet s monu-  
ments**21****AARR overpass**

1035ΔLeggett John

1039ΔDeFilippi Benedict©

1041ΔPatterson Harold J

1042-1100ΔLansky P &  
Sons junk dlrs

1043ΔStauch Geo A

1200ΔReynolds Chem

Products Co

**W SUMMIT ST 1955**

3385Δ Millage Chas H ⊙  
 Δ Dependable Lawn Serv  
 3425Δ Standbridge Lucinda Mrs ⊙  
 3439Δ Barnard Lynn L ⊙  
 3459Δ Newman Clarence T ⊙  
 Δ Adams Vernon  
 3501Δ Thurow Geo C ⊙  
 3579Δ Wilson Robt G ⊙  
 3589Δ McMullen Grace M ⊙  
 3599Δ Hogan Frank ⊙  
 3621Δ Rice Arth B ⊙  
 3625Δ Winslow Geo H ⊙  
 3659Δ Chance Homer R ⊙  
 3685Δ Pickell Ralph w ⊙

38

**STRATFORD DRIVE—**

**From Avon east 1 block, thence north 1/2 block, 1 south of Hill**

609Δ Sturgis Cyrus C ⊙  
 610Δ Wright Corwin R ⊙  
 611Δ Yost Eunice F Mrs ⊙  
 Δ Eaton Milton  
 614Δ Bigby Paul S ⊙  
 618Δ Buhr Jos H ⊙

28

**SUMMIT E—From 800 N Main east to Beakes**

105Δ Bynum Sylvia B Mrs  
 109Δ Sears Eliz Mrs ⊙  
 110 No Return  
 112Δ Price Danl I ⊙  
 113Δ Brooks Izella  
 117Δ Bird Jacob ⊙  
 120Δ Robinson Ernie ⊙  
 121Δ Brian Lillie Mrs ⊙  
 124Δ Kelley Edw E ⊙  
 rug cln  
 126Δ Gates Emery N ⊙  
 127Δ Armstrong Pauline Mrs  
 ns City Playground  
**N 4th av intersects**  
 212Δ McIntosh Lemons  
 Lansky Philip (yd No 2)  
 227Δ Peters sausage Co Inc mfrs  
**N 5th av intersects**  
 306Δ Camelet Danl ⊙  
 310Δ Foster Jas H ⊙  
 314Δ Wideman Robt  
**Beakes intersects**

19

**SUMMIT W—From 800 N Main west to Brooks**

111Δ Lee Mable M Mrs ⊙  
 112Δ Bell Lynn P jr ⊙  
 113Δ Manning Irving R ⊙  
 114Δ Knox Elmer ⊙ trucking  
 117Δ Alexander Alton C  
 118 Payne Claude  
 119 Walker Marie Mrs ⊙  
 123Δ Webber John W  
 124Δ Blaess Coal Co  
**AARR crosses**

**Wildt begins**

**Hiscock begins**  
 200Δ Fields Hazel I Mrs ⊙  
 201 Barroco Andrew J ⊙  
 203 wallace Ralph ⊙  
 204 Knox Cecelia Mrs ⊙

**Edward begins**

206Δ Arnold Irvin S ⊙  
 207Δ Scott Robt M ⊙  
 208Δ Corley Mary M Mrs ⊙  
 210Δ Miller Malcolm E ⊙  
 211Δ Guster Jas ⊙  
 212Δ Patrick Chas ⊙  
 Δ Smith Hardy  
 213Δ Larkins Chas J ⊙  
 215Δ Moody Richd B ⊙  
 Δ Mitchell Minnie P Mrs

220Δ Bridges Jerry ⊙  
 223Δ Fields Chas G ⊙  
 224Δ Jones Rosa Mrs ⊙

**Daniel intersects**

300Δ McFadden Jos ⊙  
 301Δ Ruthledge Albert C ⊙  
 304Δ France Theo M  
 307Δ Briegel Ernest C ⊙  
 314Δ Parks Lyman S Rev

401Δ Mordsky Anna Mrs ⊙  
 403Δ Sanders Geo H ⊙  
 radiator repr  
 404Δ Hoeft Calvin C  
 408Δ Barrigar Clifford F ⊙  
 414Δ Johnsmiller Walter P ⊙

**Spring intersects**

508Δ Sage Carl  
 Δ walterhouse Nina C  
 510Δ Wurster Karl F

**Hillcrest dr begins**

511Δ Prince John J ⊙  
 515 No Return  
 517Δ Jaroszyk Jos B  
 518Δ Bafs Fred ⊙

**Fountain intersects (ns not open)**

25

**Fountain intersects (ns not open)**

602Δ McDonald Lila G Mrs ⊙  
 605Δ Bassett Alf  
 Vacant

610Δ Mohl Paul S ⊙  
 Δ Yape Ruth M  
 619Δ Cook Van C ⊙  
 621Δ Schroeter Fred J ⊙  
 628Δ Middlesworth J Vaughn ⊙  
 631Δ Clark Hazel B Mrs ⊙

Ralston Robt O

632Δ Hearst Sophia H Mrs  
 636Δ Mann Laphne H Mrs ⊙

**Miner intersects**

**Gott intersects**

817Δ Shipley Alva ⊙



W SUMMIT ST 1951

---

19

**SUMMIT W—From 800 N  
Main west to Brooks**

- 111△ Lee Herbert G ©  
112△ Bell Lynn ©  
113△ Manning Irving R ©  
114△ Knox Elmer © truck-  
ing  
117△ Holbrook Jos M ©  
Mitchell Kenneth J  
118△ Smith Burrall  
119 Walker Marie Mrs ©  
123△ Webber John W  
124△ Blaess Coal Co

**AARR crosses**

**Wildt begins**

**Hiscock begins**

- 200△ Fields Hazel I Mrs ©  
201 Barroco Andrew J ©

## W SUMMIT ST 1951

## SUMMIT W--Contd

203△Martin Jos E

204△Knox Sadie Mrs ◎

**Edwards begins**

206△Arnold Irven S ◎

207△Scott Robt M ◎

208△Corley Mary O Mrs

210△Clark Emma K Mrs ◎

211△Guster Jas ◎

212△Podewils Geo L ◎

213△Larkins Chas J ◎

215△Moody Richd B ◎

Brown Robt

220△Bridges Jerry ◎

Alexander Alton C

223△Zieseimer Gustave F ◎

224△Braatz Frank C ◎

**Daniel intersects**

300△Larson Paul A

301△Conn Newton E ◎

304△Binder Basil E ◎

307△Wichterman Russell P

314△Sicinski Henry S ◎

401 Mordsky Anna O Mrs

403△Saunders Geo H ◎

404△Hoeft Oswald F ◎

408△Earrigar Clifford F ◎

414△Johnsmiller Walter P

**Spring intersects**

508△Sage Carl ◎

510△Wurster Karl F

**Lnu ct begins**

511△Prince John J ◎

515△Schwemmin Harold J

517△Jaroszyk Jos B

518△Bafs Fred ◎

**Fountain intersects  
(ns not open)**

## N MAIN ST 1947

319△Clove Wm F  
 320△Beranek Eliz Mrs ⊙  
     Beranek Wm E  
     △VanColens Plmbg & Htg  
 323△Knight Fred J ⊙ pntr  
     △Donner Vinton H  
 401△DeBruyne Hector  
 402△Rhead Harvey G ⊙  
 405△O'Neil Anthony E  
     △Cook Chas E  
 407 Warren J Ernest  
 408△Hull John C ⊙  
 414 StNicholas Greek Orthodox  
     Church  
 415△Schaible Fred J ⊙  
     Schmid Harry H  
 418△Verames Gustave A  
 425 Keppler Emory A ⊙  
 427△Lechien Adolph

## Kingsley intersects

19

## Beakes begins

501 Moxley Ralph H  
     △Fullerton Raymond R ⊙  
 502△Grayer Herman W ⊙  
 504△Flandyz Mitchell J  
 509△Niethammer Rosa M ⊙  
 516△Maltby Frank T ⊙  
 514△Perkins Wilmer R ⊙  
 515 Alcock Geo ⊙  
 519△Zyromski Roman B  
 520△Ream Amelia A Mrs ⊙  
 521△Russell Helen Mrs  
 522△Staebler Wm J ⊙  
 523△Prentiss Ralph ⊙  
 526△Root Bert C ⊙  
 527△White Harry H ⊙  
 529△Peters Howard A  
 531△Vowell Georgia Y Mrs ⊙  
 532△Berger Fred A ⊙  
     △Robbins Donald L  
     △Holgate Jas G  
 533△Lau Albert A ⊙  
 534△Jennings Henry C  
 536△Heininger Ida M Mrs ⊙  
 537△Schoonover Hewitt A  
 538△Zill Emil J  
     △Court Dennis D  
 539△McGinnis Roger L  
 542△Collins Leada M Mrs  
 544△Spieth Clyde C

## Fclcb begins

603△Tubbs Claudia B Mrs ⊙  
 604△Decker Lyle H ⊙  
 607△Falcone Carmelo ⊙  
 608 Nicholas J J  
     Dean Neil  
     △Nelson Nellie J  
 611△Kussurelis Tom ⊙  
 612△Hallen Emma E Mrs ⊙  
 613△Kussurelis Tom gro  
 614△Harris Frank P ⊙  
 615△Schaible A Mary Mrs ⊙  
 618△Quigley Frona E Mrs ⊙  
     △Payne Jess A Mrs  
 619△Crandall Ernest L ⊙  
 622△Donahue Allen K ⊙  
 626△Milford Clifford  
 627△Kincaid Jas C Rev  
 630△Brelgal Erwin A ⊙  
 700△Reeves Cledon A ⊙  
 703△Miller Chas M  
 706△Thornberry Eug ⊙  
 707△Harrison Walter B ⊙  
 708△Wint Lucy M Mrs ⊙  
 711△McKinney Sanford ⊙  
     △Porter Warner  
 712△Neff Alvin S  
     Gigallon Mary L Mrs  
 717△Byan Leo J  
 717½△Agle Elsie Mrs  
 718△Fondren Jas H ⊙  
 721△Municipal Garage  
     City Street Dept  
 722△Baxter Ralph H ⊙  
 724△Scheffler May Mrs ⊙  
 733△Ragland John L ⊙

## Summit intersects

800△Gregg Bros filling sta  
 802△Bilski Bertha Mrs barber  
     △Bilski Geo  
 803△Bird John S ⊙  
 805 White Hut restr  
 807△Ardner Geo J ⊙

808-10△Lutz & Seeger gros  
 810 Parks Homer L

## Depot begins

811△Hiscock Cora M Mrs ⊙  
     △Botsford Harry E  
 906△Staebler-Kemp Oil Co filling  
     sta  
 907△Martin Sales & Service auto  
     dlrs  
 911 Vacant  
 912△Staebler-Kemp Oil Co (ofc)  
 923△Brumbaugh Lexa Mrs  
 924-36△Arnet's monuments  
 927 Whitney Houston E

21

## AARR overpass

1035△Govier Geo W  
 1039△DeFilippi Benedict ⊙  
 1041△Kampas Jas  
 1043△Fenchuk Wm W  
 1100-42△Lansky Philip & Sons  
     junk dlrs  
 1200△Precision Parts Co (plant 1)  
     auto parts mfrs  
 1212 Precision Parts Co (whse)  
 1214△Sadacca Albert V mgrs agt  
 1250△Precision Parts Co (plant  
     No 4)  
 1253 Griggs Leona Mrs  
     △Gulley Jas  
 1254△Economy Baier Co  
 1257 Apartments  
     1 West Percy J  
     2 Walker Thelma  
     3 Brooks Frances H Mrs  
     4 Difesi Jos ⊙

## Street continued

1307△Harrison Thos S ⊙  
 1311 Mitchell Chas  
 1313△Connor Wm C ⊙  
 1315△Coprich Cora Mrs ⊙  
 1319 Beckley Alva  
 1329△Connor Torrence R  
 1340△Leever & Leever lumber &  
     coal

## City limits

1346△Miles Jerry B filling sta  
 1354△Crohait Inc alloys mfrs  
     △Ann Arbor Grinding Co

## Huron View blvd begins

es 1 s Ann Arbor Construction Co  
     (asphalt plant)  
 1380△Mich State Highway Testing  
     Equip & paint shop  
 1400△Wolverine Mfg Co auto parts  
     mfrs

1485△Luedi Mary Mrs  
 1645△Arnst Garage auto reprs  
 1715△Kuebler Henry J ⊙ contr

## W Huron River dr begins

2015△Mosher Chas C  
 2035 Dunkley Ernest

## MCRR underpass

## Huron River Bridge

1  
**MAIN S—From Huron south be-**  
**yond Golf View lane (dividing**  
**line for east and west streets)**  
 sw cor Ann Arbor Trust Bldg

△Ann Arbor Trust Co  
 (For office locations see W  
 Huron)

101-05△Ann Arbor Bank  
 △Ann Arbor Clearing House

Assn

Am Institute of Banking

Washtenaw County

Chapter)

106△Peck's Drug Store

2d fl△Household Finance Corp

loans

108△R & S Shoe Store

109-11△Preketes Ann Arbor Sugar

Bowl confrs and restr

110 Merit Shoe Co Inc

112△Mayer-Schairer Co office

supplies and printers

113△Ann Arbor Cut Rate Store

men's furngs

113½ Vacant

114 Kinney G R Co Inc shoes

115△Walk-Over Shop The shoes

115½ Lamba Chi Omega Club

116△Mavfair Shop women's wear



## N MAIN ST 1942

514<sup>Δ</sup>Perkins Wilmer R ©  
 515 Clow Roy  
 519 Zyromski Roman B  
 520<sup>Δ</sup>Ream Amelia A Mrs ©  
 521<sup>Δ</sup>Leuneberg Walter J  
 522<sup>Δ</sup>Staebler Wm J ©  
 523<sup>Δ</sup>Jordan Exterminator Co  
     <sup>Δ</sup>Ball Ruth V Mrs  
     O'Donnell John C  
     Glover Evelyn Mrs  
 526<sup>Δ</sup>Root Bert C ©  
 527 White Austin M ©  
     <sup>Δ</sup>White Harry H  
 529 Peters Howard  
     Lash Archie W  
 531<sup>Δ</sup>Vowell John H  
 532<sup>Δ</sup>Berger Fred A ©  
     Bellman Eric R  
 533<sup>Δ</sup>Lau Albert A ©  
     <sup>Δ</sup>Wilkinson Wm E  
 534 Knoch Harold  
 536<sup>Δ</sup>Heininger Ida M Mrs ©  
 537<sup>Δ</sup>Gagalis Wm N  
 537½<sup>Δ</sup>Sominsky Abr  
 538 Zill Emil J  
     Court Dennis D  
 542<sup>Δ</sup>Dilloway Kenneth W  
 544<sup>Δ</sup>Spieth Clyde C

**Felch begins**

603<sup>Δ</sup>Tubbs Bert J ©  
 604<sup>Δ</sup>Decker Lyle ©  
 607 Falcone Carmelo ©  
 608 Ethridge Arnold A  
     Reed J Hugh  
     Barker Paul E  
 611 Agle Elsie M Mrs  
     Kussurelis Tom  
 612<sup>Δ</sup>Hallen Emma E Mrs ©  
 613<sup>Δ</sup>Kussurelis Tom gro  
 614<sup>Δ</sup>Harris Frank P ©  
 615<sup>Δ</sup>Schalble Geo ©  
 618<sup>Δ</sup>Quigley Frona E Mrs ©  
     Payne Jess A ©  
 619 Thomsen Mikkell  
 622<sup>Δ</sup>Donahue Allen K ©  
 626 Rammer Eleanor D Mrs ©  
     Brewer Lydia Mrs  
 627 United Service fill sta  
     Beatty Watson  
 630 Breigal Erwin ©  
 700<sup>Δ</sup>Wetherbee Frank E  
 703<sup>Δ</sup>Fisher Robt  
 706 Schneider Lester F  
 707<sup>Δ</sup>Harrison Walter B ©  
 708<sup>Δ</sup>Wint Lucy M Mrs ©  
 711<sup>Δ</sup>McKinney Sanford ©  
 712<sup>Δ</sup>Neff Godfrey © roofer  
     Gillgallon Ernest J  
 717<sup>Δ</sup>Sheldon Geo B ©  
     Imus Ray W  
 718 Kondren Jas H  
 721<sup>Δ</sup>Municipal Garage  
     City Street Dept  
 722<sup>Δ</sup>Fletcher Zephanin  
 724<sup>Δ</sup>Scheffler May Mrs ©  
 733<sup>Δ</sup>McCarthy Cath G Mrs ©

**Summit intersects**

800 Wilke Benj P filling sta  
 802<sup>Δ</sup>Bilski Geo A baker  
 803 Hermling Saml R  
     <sup>Δ</sup>Perry Juanita Mrs  
 805 White Hut restr  
 807<sup>Δ</sup>Ardner Geo J ©  
 808-10<sup>Δ</sup>Lutz & Seeger gros

**Depot begins**

811 Hiscock Dana E ©  
     <sup>Δ</sup>Botsford Harry E  
 906<sup>Δ</sup>Ogilvie Byron S filling sta  
 911<sup>Δ</sup>Satterfield Clifton B  
     Karnes Orle R  
     Coleman Fred  
 912<sup>Δ</sup>Wetherbee Frank T jr  
 923<sup>Δ</sup>Putnam Jesse J  
 924-36<sup>Δ</sup>Arnet Jos L & Son monuments  
 927 Baker Wm J  
 940 Porspan Thos bait

**AARR overpass**

## W SUMMIT ST 1942

DEAKES INTERSECTS

**SUMMIT W—From 800 N Main west to  
Brooks**

111 Shaneyfelt Raymond A ©

112<sup>Δ</sup>Dennie David L

113 Manning Irving R ©

Colby Raymond M

114<sup>Δ</sup>Ford Robt L

117 Wright Ernest H

118<sup>Δ</sup>Mitchell Chas I ©

119 Walker Marie Mrs ©

120 Vacant

123<sup>Δ</sup>Webber John W124<sup>Δ</sup>Blaess Oscar F coal**AARR crosses  
Wildt begins  
Hiscock begins**

200 Fields S Davis ©

201 Starke Pearl B Mrs

203 Martin J E

204<sup>Δ</sup>Knox Elmer L © trucking**Edwards begins**

206 Kelly Andrew

207<sup>Δ</sup>Schwartz Chas208<sup>Δ</sup>Burnett Royal D

Brumbaugh Geo S

210 Clark Robt O ©

211<sup>Δ</sup>Visel Emanuel C © trucking212<sup>Δ</sup>Podewils Geo L ©215<sup>Δ</sup>Salow Wm J C ©

220 Haines Harry D ©

223<sup>Δ</sup>Ziesemer Gustave F ©224<sup>Δ</sup>Braatz Frank C ©**Daniel intersects**

300 Collica Carmelo J

301 Harmon Chas N

Lenninberg Paul

304 Binder Basil E ©

307 Barth Rose T Mrs

314 Kern Wm C ©

401<sup>Δ</sup>Trew Wm C403<sup>Δ</sup>Burgrella Isadore © mason contr

404 Hoeft Oswald R ©

408 Mann Marie E Mrs ©

## N MAIN ST 1937

ANN ARBOR DIRECTORY OF

529 Clow Roy  
 531 Vowell John H  
 532 Berger John ©  
 533 Lau Albert A ©  
     Johnston Geo D  
 534 D'Anjou Jos R  
 536 Heininger Ida M Mrs ©  
 537 Dittmer Fred  
     McDonald Mae Mrs  
     Winslow Harry R  
 538 Maternal Health Clinic  
     Flickinger Edna Mrs  
 342 Hartman Lewis J  
 544 Toll John M

**Felch begins**

603 Tubbs Bert J ©  
 604 Decker Eila J Mrs ©  
 607 Jacobus Herbert R  
 608 Harvey Gordon  
     Hinck Rose  
     Roach Boynton W  
     Unvergross H W  
     Whitlock Alf  
     Wulfert Mabel L Mrs  
 611 Bertoni Ralph A gro  
 612 Hallen Wm J ©  
 614 Harris Frank P ©  
 615 Schaible Geo ©  
     Vielmuth Mary C Mrs  
 619 Kraizman Morris ©  
 622 Donahue Allen K ©  
 626 Peck Glenn E  
 627 Ann Arbor Tire Supply  
     Foreign Gas Station  
 630 Schiappacasse Teresa ©  
 700 Wetherbee Frank  
 703 Coniway Ruel J  
 706 Gregory Paul  
 707 Young Millard B  
 708 Wilson Glen R  
 711 Schmid John C  
 712 Magnussen Ferol I Mrs  
     Neff Godfrey ©  
 717 Sheldon Geo B ©  
     Imus Ray  
 718 Owens Warner B  
 721 Municipal Garage  
 722 Gray Zora Mrs  
 724 Raus Arth E  
 733 McCarthy Cath G Mrs ©

**Summit intersects**

800 Wilke Benj P filling sta  
 802 Bills Geo A barber  
     Merrick Marion S Mrs  
 803 Bond Wm R  
     Reed Wilbur C  
     Thorn Jessie Mrs  
 807 Ardner Geo J ©  
 808 Lutz & Seeger gros  
     Lenio Michl ©  
 811 Hiscock Dana E ©

**Depot intersects**

906 Staebler Oil Co © filling sta  
 911 Bailey Ernest J  
 912 Wetherbee Frank T jr  
 923 Putman Jesse J  
 924-36 Arnet Jos L & Son monu-  
     ments  
 927 Fields Isabelle Mrs

**AARR crosses**

1035 LaRosa Jas  
 1039 DeFilippi Benedict ©  
 1041 French Lee

## W SUMMIT ST 1937

## STATE S—Contd

1779 Lewis & Frisinger Co road  
contrs  
Frisinger Construction Co  
Frisinger Land Co  
1780 Meader Geo  
1784 Hahn Albert  
1785 Macomber Sophia Mrs ©  
1786 Wilkinson Ole  
1795 Hamlin Theo H  
1798 Thompson Sarah L Mrs  
4320 Ann Arbor Air Service  
Ann Arbor Municipal Airport

**STIMSON—From S State east to  
Stadium blvd, 1 south of Henry  
(No houses)**

**STONE SCHOOL ROAD — From  
Packard south, 1 west of Glad-  
stone av**

2861 Sommer Aaron W ©  
2882 Ticknor Frank H ©

**STRATFORD DRIVE — From  
Avon east 1 blk, 1 south of Hill**

609 Sturgis Cyrus C ©  
611 Yost Fielding H ©

**SUMMIT E — From 733 N Main  
east to Detroit, 4 north of E  
Huron**

105 Deckler Ellsworth E ©  
109 Katopodis Peter C ©  
110 Lee Alice Mrs ©  
112 Imus Edw L ©  
113 Alexander Robt ©  
Alexander Hattie Mrs  
trucking  
116 Todd Robt O  
117 Wulfert Herman G  
120 Wulfert Herman G auto repr  
Russell Ivan J  
121 Armstrong Paulina L Mrs ©  
124 Zachmann Edw C  
126 Hunt Wm H ©  
127 Staebler Martha L Mrs

**N Fourth av intersects**

212 A A Iron & Metal Co  
221-29 Home Packing Co whol  
meats

**N Fifth av intersects**

306 Camelet Danl  
310 Meyer Wm E ©  
314 Brewer Claude F ©

**SUMMIT W — From 733 N Main  
west to Brooks, 5 north of W  
Huron**

111 Lanphear Donald O ©  
112 Dennie David L  
113 Manning Irving R ©  
114 Gerstler Emma Mrs ©  
117 Ciaramitaro Alex  
118 Mitchell Chas I ©  
119 Walker Frank ©

120 Pettit Fred coal

121 Webber John W

124 Blaess Oscar F coal

**AARR crosses  
Wildt begins  
Hiseock begins**

200 Fields S Davis ©  
201 Hauser Lewis J  
203 Vacant  
204 Knox Elmer L ©

**Edwards begins**

206 Johnson Geo W  
207 Steinke Aug L ©  
Seeger Raymond A  
Steinke Aug L

208 Collins Arth  
210 Clark Robt O ©  
211 Visel Emanuel C © trucking  
212 Podewils Geo L ©  
213 Seifert Paul S  
220 Haines Harry D ©  
223 Ziesemer Gustav F ©  
224 Braatz Mathilda M Mrs ©  
Spaulding Robt A

**Daniel intersects**

300 Mast Neil A ©  
301 Harmon Chas N  
Harmon Mary Mrs fur repr  
304 Binder Basil E ©  
307 Stewart Geo W  
314 Kern Wm C ©  
401 Yek Emil  
403 Burgrella Isadore  
404 Hoeft Oswald R  
408 Mann John W ©  
414 Pettit Paul D

**Spring intersects**

510 DesNoyer Robt A

**Lulu ct begins**

511 Kelly Harry D  
515 Ranney Claude D  
517 Jaroszyk Michl J ©  
518 Bafs Fred  
Bafs Al and His Collegians  
orchestra

**Fountain ends**

602 McCallum Geo P jr  
610 Pardon Edw ©  
619 Cornell Erwin W  
621 Nowak Chas E  
628 Shedleski Benj D  
632 Marsden Hannah S Mrs ©  
638 Hutchinson Wm A ©

**Miner intersects  
Gott intersects**

817 Coon Wm C  
820 Larmee Herman ©

**SUNNYSIDE — From 923 S Sev-  
enth west 1 blk, 1 south of W  
Davis av**

911 Watson Arth

## N MAIN ST 1932

## MAIN N—Contd

415 Schaible Fred J  
Schmid Harry H  
418 Friedman David  
425 Keppler Emory A  
427 Lane Theo F veterinarian  
Lane's Veterinary Hosp  
Kinsley intersects  
Beakes begins  
501 VanLoo Emma M Mrs  
502 Grayer Herman W  
504 Banghart Marticia L Mrs  
509 Niethammer Louise Mrs  
510 Tedder Florence E Mrs  
514 Perkins Wilmer R  
515 Boulaine Roineo  
519 Curtis Floyd A  
520 Ream Amelia A Mrs  
521 Stevens Saml  
522 Stacbler Wm J  
523 Kratz Alice N Mrs  
525 Jakkula Arne A  
526 Root Bert C  
527 White Harry H  
529 Sykes Harry A  
531 Vacant  
532 Berger John  
533 Lau Albert A  
Kirkpatrick Roy D  
534 Theakes Peter  
536 Heininger Ida M Mrs  
537 Sisson Alf G  
538 Wells John H  
542 Stevens Edgar  
Stevens Gorton G trucking  
544 Andres Sam C  
Cox Jas W  
Felch begins  
603 Tubbs Bert J  
604 Decker Ella J Mrs  
607 Spaulding Arnold L  
608 Neff Frank G  
Radke Norman  
611 Sinelli Louis S gro  
612 Hallen Wm J  
614 Harris Frank P  
615 Schaible Geo  
618 Vacant  
619 Kraizman Morris  
622 Donahue Allen K  
626 Koch Berthold L  
627 Ann Arbor Tire Supply  
630 Schiappacasse Teresa  
760 Reynolds Melvin  
703 Conway Ruel J  
706 Stanchfield Robt G L  
707 Kapp Frank F  
Pentecostal Mission  
708 Hession Thos J concrete contr  
711 Stratos Geo  
712 Neff Godfrey  
717 Sheldon Geo B  
718 Brown Francis S

## 721 City Garage

722 Todd Earl J  
724 Perrine Matilda L Mrs  
Hildebrand Waldo O  
733 McCarthy Cath G Mrs  
Summit intersects  
800 Wilke Benj P filling sta  
802 Wilke Benj P  
803 Reed Wilbur  
Thorn Jessie Mrs  
807 Ardner Geo J  
808-10 Lutz & Seeger gros  
Gilson Louis E  
811 Hiscock Dana E  
Depot intersects  
906 Staebler Oil Co filling sta  
911 Vacant  
912 Wetherbee Frank E  
Wetherbee Frank T  
923 Mayotte Albert S  
927 Jones Dock  
936 Arnet Jos L monuments  
Ann Arbor B R intersects  
1035 LaRosa Jas  
1039 DeFilippi Benedict  
1041 Cooper Otha  
Griswold John W  
1043 Kersey Bert  
1200 Machine Specialty Co auto  
parts mfrs  
1212 Vacant  
1216 Wagner Rudolph E cider mill  
1250 Vacant  
1253 Turner John S  
Gulley Jas  
1254 Economy Baler Co  
rear Vacant  
1257 Difese Jos  
Fields Cecil  
1309 (1331) Connor Wm C  
1315 Coprich Welch N  
1319 (1339) Mitchell Fremont F  
1340 Leever & Leever lbr  
1329 (1343) Williams Benj S  
1357 Howard Ernest D  
1358 Winsor Trailer Co  
1366 Martin Russell H Indy  
1369 Brighton John F  
1375 Dunkley Ernest

MAIN S—From Huron south to  
city limits, dividing line of east  
and west streets  
sw cor Ann Arbor Trust Building  
Ann Arbor Trust Co  
(For office locations see Hu-  
ron W)  
101-05 Farmers & Mechanics  
Bank  
Ann Arbor Building & Loan  
Assn  
106 Peck's Drug Store  
Tea Garden restr

W SUMMIT ST 1932

**SUMMIT W—From 733 Main N  
west to Brooks, 5 north of Huron  
W**

111 Lanphear Donald O

112 Podewll Albert E

113 Manning Irving R

114 Gerstler Albert

117 Pulver Lawton T

118 Mitchell Chas I

119 Walker Frank

120 Hiscock Dana E coal

121 Webber John W

**A A R R crosses  
Wildt begins**

200 McDonald Isaac

Fields Harold I

Fields S Davis

201 Liefso Wm J

203 Weaver Howard E

204 Knox Elmer L

**Edwards begins**





W SUMMIT ST 1927

314 Claude F Brewer

**SUMMIT WEST—From 733 Main N w to  
Brooks 5 n Huron W**

111 Donald O Lanphear

112 Vacant

113 Benj P Wilke

114 Albert Gerstler

117 Lawton T Pulver

118 Chas I Mitchell

119 Frank Walker

120 Dana E Hiscock coal

**Ann Arbor R R  
Wildt begins**

200 Harold I Fields

S Davls Fields

201 Frank Neff

203 Warren A Geigler

204 Mrs Cath Neff

206 Geo Johnson

207 Aug L Steinke

208 Frank A Carey

210 Robt O Clark

211 Delbert F Todd

212 Geo L Podewils

215 Powell Selfert

220 Jacob T St Clair

223 Gustav F Ziesemer

224 Mrs Mathilda M Braatz

**First**

300 Lorenzo W Secor

301 Vacant

304 Basil E Binder

## N MAIN ST 1917

82

1917 R. L. POLK &amp; CO.'S

**MAIN (N)—Cont'd**

- 529 Mrs Caroline Schroeder  
Louis J Kroll, contr  
525 Michael McCrickett  
526 Bert C Root  
527 George E Stadleman  
531 Wm D Marsh  
532 John Berger  
533 John McKernan  
Albert Lau  
534 Mrs Jessie M Stivers  
Paul Woollomes, contr  
536 Otto G Andres  
537 Vacant  
538 James T McDougall  
542 Edgar Stevens  
544 Samuel C Andres

**Felch st commences**

- 603 John G Andress  
604 John J Foster  
607 George H Decker  
608 Solomon Geisner  
611 Louis Sinelli, grocer  
612 Wm J Aprill  
614 Karl F Zieffe  
615 George A Schaible  
618 Mrs Victoria Miller  
Floyd C Anderson,  
drayman  
622 Allen K Donahue  
626 Frank E Heck  
627 Nicholas Warys  
Wm Kowil  
Peter Salamin  
630 Teresa Schippacasse  
700 Mrs Emily C Donahue  
703 Mrs Eva Imus  
706 Thomas J Hession, contr  
707 Samuel D Leggett  
Wm T Crebo  
711 George A Cobb  
712 Mrs Christine Fischer  
717 Adolph P Kern  
718 Jasper Imus jr  
719 Mrs Anna S Sutter  
722 Louis N Briggs  
724 Isaac Perrine  
725 A F Sutter, boiler repr  
733 Mrs C G McCarthy

**Summit st intersects**

- 802 Mrs Caroline Ross  
803 James E Johnston  
807 Herbert T Wetherbee  
Claude H Freeland  
808-810 Oscar E Pardon,  
grocer  
811 Dana E Hiscock  
**Depot st begins**

- 911 Charles E Hiscock  
912 Robert T Whitaker  
923 Wilfred M Trainor  
e s Ann Arbor City Mills  
927 Nicholas Jancer  
**Ann Arbor R R intersects**  
1039 Julius Lindemann  
1110 Ann Arbor Scrap Iron &  
Metal Co  
1134 Jacob Goffe  
1253 John W Simpkins  
1254 Economy Baler Co  
Elwell Trolley Supply Co  
1307 Charles A Boland  
w s August J F Rohde

**MAIN (SOUTH), from Huron S, and from which all e and w streets name and number**

- s w cor First Natl Bank bldg  
(For office locations,  
see Huron W)  
101-5 Farmers' and Me-  
chanics' Bank  
102-4 First Natl Bank of  
Ann Arbor  
106 Wm Goodyear & Co, dry  
goods  
107 Goodyear Drug Co  
108 Wahr's Shoe Store  
109 Ann Arbor Sugar Bowl  
Fred C Palmer, dentist  
110 Schaeberle & Son, pianos  
111 C S Millen, dry goods  
112 Mayer-Schairer Co, sta-  
tioners  
113 James L Chapman,  
jeweler  
F Roy Holmes, real est  
Louis T Zells, architect  
B Frank Savery, real est  
114 Hutzel & Co, plumbing  
115 Walk-Over Boot Shop  
Wm G Howley, dentist  
Mrs Emma E Howley,  
china decorator  
116 Grinnell Bros Music  
House  
Ann Arbor Business Ex-  
change, real estate  
117 John A Tice, drugs  
Edward L Greenbaum,  
tailor  
118 Mills Co, ladies' gar-  
ments  
119 Samuel O Davis, men's  
furngs

BEST GOODS LOWEST PRICES

## W SUMMIT ST 1917

319 NATION LITSHETZ  
**SUMMIT (WEST),** from  
 Main N, w to Brooks, 5 n  
 Huron W

111 Orien D Lamphear  
 Donald O Lamphear

112 Peter J Harrison

113 Harold L Haines

114 Lewis J Armstrong

117 R Lee Clark

118 Wm E Meyer

119 Emil Novack

n w cor Vacant

**Ann Arbor R R intersects**

144 Mrs Matilda M Fields

148 Roy E Imus

**Hiscock st intersects**

203 Wm J Nevroth

206 Vacant

207 August L Steinke

208 Isadore Bulgarella

210 Benatito Tefilippo

211 Otto A Zemke

**CONTRACTOR**

## W SUMMIT ST 1917

**SUMMIT (W)—Cont'd**

212 Mrs Martha J Shannon

Gustav F Ziesmer

215 Mrs Annie W Krumrei

220 Frank J Harvey, dectr

223 Julius F Lohrke

224 Wm A Braatz

**First st intersects**

301 Patrick J Desmond

404 August Redies

408 John W Mann

414 Ernest J Reeve

**Spring st intersects**

517 John Holke

Alexander Jaroszek

518 Frederick G Mack

**Fountain st ends**

610 Edward Pardon

621 Mrs Augusta Nowak

**Miner st intersects****Gott st intersects**

817 Walter Wright

820 Herman Larmee

**SWIFT, from Broadway, w, 1  
e Huron River**

## N MAIN ST 1912

ANN ARBOR STREET GUIDE. 1912

502 Herman W Grayer  
 504 Clarence R Snyder  
 509 Wm Niethammer, contr  
 510 Herbert B Tenny  
 514 Wilmer R Perkins  
 515 Charles A Herrst  
 517 Arba C Gibson  
 519 Edson F Sherman  
 520 Frederick E Nordman  
 522 Floyd P Baker  
 523 Leonard Green  
 523½ Margaret M Johnson  
 525 Carl F Kuhn  
 526 Wm Niethammer jr  
 532 John Berger  
 533 John McKernan  
 " Louis L Kroll, contr  
 534 Clarence J Sweet  
 536 Otto G Andres  
 537 James E Harkins  
 538 James T McDougall  
 524 George B Hudnutt  
 544 Samuel C Andres  
 Felch st commences  
 603 John G Andress  
 604 John J Foster  
 " George H Decker  
 608 Rice B Sage  
 611 Louis Sinelli  
 612 Wm J April  
 614 Charles F Zieffe  
 615 George A Schaible  
 618 Archie J Miller, drayman  
 622 Allen K Donahue  
 626 Charles Bohnet  
 627 Addison U Fry  
 " Mrs Mary Colon  
 " Hugh Gallagher  
 630 Theresa Schiappacasse  
 700 Mrs Emily C Donahue  
 703 Alexander D Imus  
 706 Frederick Seyfried  
 707 Solomon Geismer  
 711 Simon J Sindlinger  
 712 John J Fischer  
 717 Adolph P Kern  
 718 Jasper Imus jr  
 719 Mrs Anna S Sutter  
 722 Jasper Imus  
 724 Isaac Perrine  
 725 A F Sutter, boilermaker  
 723 Mrs Catherine G McCarthy  
 Summit st intersects  
 802 Edward Ross jr  
 803 James E Johnston

807 Herbert T Wetherbee  
 Depot st begins  
 911 Charles E Hiscock  
 912 Andrew R Peterson  
 923 Wilfred M Trainor  
 e s Ann Arbor City Mills  
 927 Vacant  
 Ann Arbor R R intersects  
 e s U of M and Huron River  
 boat livery  
 " Paul G Tessmer  
 " Mrs Fredericka Tessmer,  
 confr  
 1039 Julius Lindemann  
 1110 Peter Jacobus  
 1134 Julius W Lindemann  
 1353 Gottfried Neff  
 1307 Charles A Boland  
 w s Ernest D Barton

**MAIN (SOUTH)** from Huron  
 s, and from which all e and  
 w streets name and number  
 s w cor First Natl Bank bldg  
 101-105 Farmers and Mechan-  
 ics' Bank  
 102-104 First Natl Bank of  
 Ann Arbor  
 106 Wm Goodyear & Co, dry  
 goods  
 167 Goodyear Drug Co  
 " J J Goodyear, phys  
 " Edward B Caldwell, den-  
 tist  
 108 Gruner & Co, shoes  
 " Edward D Hiscock, coal  
 109 Cyrenus G Darling, phys  
 " Charles L Washburne  
 " Ann Arbor Sugar Bowl  
 110 Schaeberle & Son, pianos  
 111 C S Millen, dry goods  
 112 Mayer, Schoettle &  
 Schairer Co, stationers  
 113 N Frank Allen, clothing  
 " Arthur C Nichols, dentist  
 114 Hutzel & Co, plumbing  
 115 Walk-Over Shoe Co  
 " George Seyfried  
 116 Justin A Trubey, confr  
 " Weissinger Sign Co  
 117 John A Tice, drugs  
 118 Mills Co, ladies' furngs  
 119 Wm P Purfield, shoes  
 " Henry Snearly  
 120 F M Kirby & Co,  
 notions

## W SUMMIT ST 1912

319 Napoleon Chariam

**SUMMIT (WEST)**, from  
Main N, w to Brooks, 5 n  
Huron W

111 Edward C Zackmann

114 Mrs Anna B Davis

118 Dana E Hiscock

144 Mrs Matilda M Fields

148 Roy E Imus

Hiscock st intersects

203 W Nevroth

206 Ludwig Wuerth

207 August L Steinke

211 Otto O A Zemke

212 Mrs Martha J Shannon

215 Mrs Annie W Krumrei

220 Wm W Martn

223 Mrs Amelia Giese

224 Wm A Bratz

First st intersects

301 Patrick J Desmond

404 August Redies

408 John W Mann

414 Joseph J Livernois

Spring st intersects

517 John F Holke

" Matthias Lauer

518 Frederick J G Mack

Fountain st ends

610 Edward Pardon

621 Christopher Nowak

Miner st intersects

Gott st intersects

820 Herman Larmee

**SWIFT**, from Broadway w, 1  
e Huron River

**N MAIN ST 1902**

514 Jacobena Frederick  
 515 Theodore Backhaus  
     Emella Gniichtel  
 519 Frederick S Adams  
 520 Esther Washington  
 522 Hattie Hurst  
     Hattie Henry  
 523 Leonard Green  
 525 Wm E Dougherty  
 532 John Berger  
 533 Caroline McKernan  
     Ernest Miley  
 534 Frank G McCaffrey  
 536 Wm Phelan  
 537 James E Harkins  
 538 John Keenan  
     Jenner C Trowbridge  
 542 John J Richmond  
 544 Gottlieb Andres  
     Felch st  
 603 Parris S Banfield  
 604 George H Decker  
     John J Foster  
 608 David J Malloy  
 611 James B Saunders  
 612 Wm J Aprill  
 614 Catherine Andres  
 615 George Schaible  
 618 Archie J Miller  
 627 Frank J Allmand  
     James Slater  
 700 Michael Donahue  
 703 Alexander D Imus  
 706 Wm H Campion  
 707 James McMahon  
 711 Anna Meade  
 712 John J Fischer  
 717 Adolph P Kern  
 718 Jasper Imus jr  
 715 Thomas L Sutter  
 722 Jasper Imus  
 724 Isaac Perrine  
 733 Hugh McGuire  
     Summit st  
 802 Caroline Ross  
 803  
 807 Edward D Hiscock  
     Depot st  
 911 Maria W Hiscock  
 912 Andrew R Peterson  
 923  
 927 Charles A Boland  
     Paul G Tessmer  
 1011 Charles F Buckholz  
 1039 Wm Potter  
 1047  
 1053 Sophia Heimbecker  
     Michael Kuebler  
 1110 Henry Oltmeier  
 1134 Charles F Dosey  
 1253 Wm J Clark  
     Jacob Dingman  
 1307 John A Seyfried

## W SUMMIT ST 1902

**SUMMIT (WEST) from Main**  
 N, w, 5 n Huron W

114 Mary Blaisdell  
 Fred Farner

144 George W Fields

148 Nelson Imus

Hiscock st

203 August Steinke

206 Louis Wuerth

212 Martha J Shannon

215

John F Krummel

220 Ella E Wilcox

223 Frederick Giese

224 Cecil C Trainor

301 Terrence Burns

404 Henrietta Redies

408 John W Mann

414

Simon Myers

Spring st

517 John Holke

Christian Zahn

518 Orville W Sage

Frank P Olmstead

610 Edward Pardon

621 Christopher Nowak

Miner st

820 Karl A Schwemmln

**SWIFT from Broadway, w, 1 e**

## N MAIN ST 1897

### MADISON (WEST) from Main S, w, 5 s Huron W

21 F W Buss  
27 A C Tessmer  
32  
34 C Bonnin  
  
41 A J Selke  
46 A Schwemmin  
48 A Hermann  
— J Kajuska

4th st  
5th st

### MAIDEN LANE from Broadway, s e, 3 e Huron River

2 G Schill  
4 H Kempfert  
5 J Sharp  
6 E Hurst  
D F Taylor  
7 G Bennett  
9 P Donovan  
13 M E Carson  
15 E A Bangs  
17 A Lentz

### MAIN (NORTH) from Huron, n, and from which east and west streets name and number

17 R E Leonard  
26 E Moore  
27 C F Lutz  
28 D H Ford  
29 A Scippacasse  
30 J Schaible  
32 F Alber  
33 H C Wilmot  
35 C Eberhart  
37 C F Pardon

Ann E

Miller av, Catherine st

### MAIN (SOUTH) from Huron, s, and from which east and west streets name and number

45 C B Davison  
47 W A Clark  
48 M A Clark  
W Wilcox  
49 L Gruner  
50 S M Braun  
51 E Galick  
51½ H A Sweet  
52 R Kearns  
53 A Long  
53½ H C Exinger  
54 L M Kean  
S A Smith  
55 H Kitredge  
56 F Kirn  
57 M A Earl  
M E Condon  
58 M S Pulcipher  
59 S A Goodale  
60 P Irwin

Kingsley st

61 J A Collins  
62 J C Fischer  
62½  
63 W Niethammer  
64 J W Ryan  
65 E K Fisher  
E Gniichtel  
66 M Kuhn  
67 H W Robinson  
68 H Washington  
G Boyer  
69 L R Green  
M Gillespie  
W A Pew  
69½ T H Wadhams  
70 P Adams  
71  
71½ J E Harkins  
72 A Clarken

74 A West  
74½ G H Hazelwood  
76 C F Amos  
76½ J A Herbert  
77 E F Moloney  
J Keenan  
78 J J Foster  
81 J B Saunders  
82 P McCabe  
83 J B Slater  
85 J W Drake  
85½ A D Imus  
86 C Francisco  
87 S J Salyer  
E Lombark  
88 M Donahue  
89 C S Boice  
90 W H Champion  
91 A P Kern  
92 J J Fischer  
93 T L Sutter  
94 J Imus, jr  
95 H F McGuire  
96 J Imus  
97 A R Peterson  
98 I Perrine

Felch st

Summit st

98 C W Ross  
99 E D Hiscock

Depot st

105 C E Hiscock  
D Hiscock  
106 N J Kyer  
107 E C Jacobus  
109 G W Palmer

Chubb rd

— R Tidswell  
— T A Jackson  
R Turner  
— M Kuebler  
C F Dosey  
— H Oltmeier  
— W J Clark  
— J A Seyfried

### MAIN (SOUTH) from Huron, s, and from which east and west streets name and number

33 G W Snow  
38 P Christman  
40 G F Lutz  
43 J A Wotzke  
51 L G Dunn  
53 F Weitbrecht  
61 J Henne  
65 J J Muehlig  
69 C M Barth  
70 O O Sorg  
72 C G Cook  
74 J Kapp  
79 S Bross  
80 L and P Willard  
81 C A W Shetterly  
83 J M Wagner  
84 G F Morrell  
85 J Lindenschmitt  
86 J C Elliott  
87 C Georg  
88 H M Woods  
89 E M Cowan  
91 D P Waldo  
93 J T Swathel  
95 E Sears  
96 M Haller  
97 M E Bliss  
C H Easton  
98 J Laubengayer  
99 J Goetz  
100 A B Bach  
101 J A C Hildner  
102 S Schmid

Liberty st

## W SUMMIT ST 1897

24 E Jaeger

**SUMMIT (WEST)** from  
Main N, w. 5 n Huron W

4 C A Trainor

*Hiscock st*

8 G W Fields

10 J Blackburn

12 N C Imus

14 W J Shannon

15 J F Krumm

16 F N Wadhams

17 F Giese

18 A C Vandergrift

19 T Burns

26 A Redies

28 E Wilcox

30 S Meyers

35 F Korzuck

J Hoelk

*Spring st*

36 O W Sage

W SUMMIT ST 1897

20

42 E C Pardou

*Miner st*

43 C Nowak

— K Schneider

**SWIFT** from Broadway,  
w, 1 e Huron River

2 B Meyer

## N MAIN ST

1894

MAIDEN LANE	98 H. Banfield
2 G. Schill	I. Perrine
4 H. Kempert	98 C. W. Ross
5 E. F. Winders	105 C. E. Hiscock
6 W. Hurst	D. Hiscock
D. F. Taylor	106 N. J. Kyer
7	107 L. B. Bnyse
9 P. Donovan	169 E. D. Hiscock
13 M. E. Carson	G. W. Palmer
15 E. A. Bangs	— C. Dosey
17 C. Nichols	— J. H. Lucas
	— S. B. Thompson
	— D. Turner
	— M. Kuebler
	— J. A. Lyons
	— C. Marshall
	— H. Oltmeier
	— N. Chester
	— C. Toliver
	— W. S. Clark
	— J. A. Seyfried
MAIN (NORTH)	MAIN (SOUTH)
9 A. Johnson	36 W. Arnold
17 G. L. Old	38 P. Christman
J. S. Farle	40 G. F. Lutz
— G. Stevens	43 J. A. Woltzke
21 G. W. Snow	49 E. Fleming
24 C. M. Stark	G. Gohenbach
27 C. F. Lutz	50 P. F. Reimold
29 A. Schiappacasse	51 H. Binder
30 C. Gibney	53 F. Weitbrecht
35 A. B. Parsons	57 M. E. de Witt
37 H. C. Wilmot	61
45 C. B. Davison	65 J. J. Muehlig
47 W. A. Clark	69 J. Murphy
48 M. A. Clark	D. C. Wright
49 L. Gruner	70 O. O. Sorg
51 E. Galick	72 C. G. Cook
51½ J. H. Golden	E. Speechly
52 R. Kearns	74 J. Kapp
53 A. Long	79 S. Bross
F. F. Scott	80 L. Willard
54 L. M. Kearn	81 A. Schneider
55 H. Kittredge	83 J. M. Wagner
56 F. Kim	84 M. E. Flynn
57 M. A. Earl	85 J. Lindenschmitt
58 M. S. Pulcipher	W. S. Gabrielski
59 S. A. Goodale	86 J. C. Elliott
60 P. Irwin	87 C. Georg
61 J. A. Collins	88 H. M. Woods
62 J. C. Fisher	89 E. M. Cowan
62½ C. Ryan	91 P. L. Badner
63 W. Niethammer	93 J. T. Swathel
64 W. Gray	95 E. Sears
65 W. H. Fisher	96 M. Haller
W. P. Mathews	97 M. E. Bliss
66 T. H. Wadham	98 J. Laubengayer
67 Gutekunst	99 J. Goetz
68 E. Washington	100 C. B. Gillette
69 L. R. Green	P. Bach
T. S. Lackey	101 W. Goetz
69½ W. P. James	102 S. Schmid
70 E. Miller	103 E. Raffensperger
71	104 E. S. Cushman
71½ J. E. Harkins	A. G. Farnsworth
72 A. Clarken	106 C. Reyer
72½ J. Keenan	109 C. Schleichner
73 S. R. Thompson	B. Gouze
74 F. A. Lakins	110 L. Becker
76 J. H. Mowers	111 C. Tessmer
O. Wright	112 F. Schlenderer
76½ E. V. Hangsterfer	113 E. Mathewson
77 E. C. Burdick	114 C. Schneider
78 H. G. Blackmore	J. W. Weinmann
J. J. Foster	115 J. F. Staebler
81 J. B. Saunders	116 W. C. Hoppe
82 J. Manning	F. Marks
83 G. E. Peters	118 L. Pfabe
85	120 F. J. Schulz
85½ A. D. Imus	124 W. Birk
86 L. Francisco	134 J. F. Bross
87 R. Ross	136 F. Hogan
88 M. Donahue	
89 A. Hines	
P. McCabe	
90 W. H. Champion	
91 A. P. Kern	
92 J. J. Fischer	
93 T. L. Sutter	
94 J. Imus	
95 H. McGuire	
96	
97 A. R. Peterson	

## W SUMMIT ST 1894

26 W. N. Cooper

## SUMMIT (WEST)

4 E. Bycraft

8 G. W. Fields

10 E. Whitley

12 J. Innis

14 R. Shannon

15 J. F. Krumri

16 J. J. Ferguson

17 F. Giese

18

19 T. Burns

26 G. E. Darrow

28 F. B. Nordman

30 S. Myers

35 F. Bucholz

H. E. Engelhardt

A. Redeis

36 O. W. Sage

42 E. Pardon

43 C. Nowak

— P. Sweet

— F. L. Wright

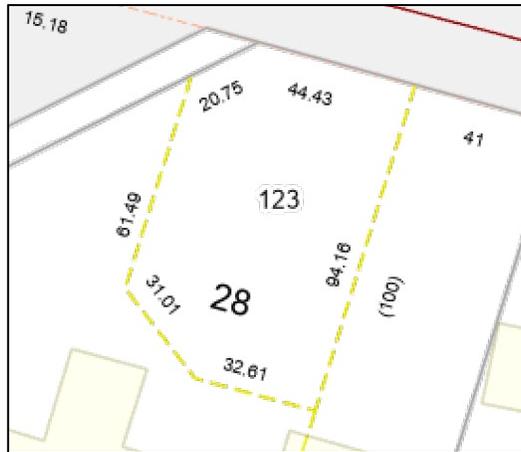
## SWIFT

2 B. Meyer

## **APPENDIX I**

### **Previous Environmental Reports**

**PHASE I ENVIRONMENTAL SITE ASSESSMENT  
123 W. SUMMIT  
ANN ARBOR, WASHTENAW COUNTY, MICHIGAN**



**ECS PROJECT A121-0001-04**

**APRIL 29, 2024**

**Prepared for:**

**ANN ARBOR HOUSING DEVELOPMENT CORPORATION  
2000 S. INDUSTRIAL  
ANN ARBOR MI 48104  
ATTN: JENNIFER HALL**

**Submitted by:**



**523 W. SUNNYBROOK DRIVE  
ROYAL OAK, MICHIGAN 48073  
(248) 763-3639  
[www.environmentalconsultingsolutions.com](http://www.environmentalconsultingsolutions.com)**



environmental consulting solutions  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073

April 29, 2024

ECS Project A121-0001-04

Jennifer Hall  
Ann Arbor Housing Development Corporation  
2000 S. Industrial  
Ann Arbor MI 48104

**RE: Phase I Environmental Site Assessment  
123 W. Summit  
Ann Arbor, Washtenaw County, Michigan**

Dear Ms. Hall:

Environmental Consulting Solutions, LLC (ECS) has completed a Phase I Environmental Site Assessment (ESA) of the property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The results of the Phase I ESA are presented in the attached Report.

We are pleased to provide this service and hope that we can be of service in the future. Should you have any questions or require further information, please do not hesitate to call us at (248) 763-3639.

Respectfully submitted,  
Environmental Consulting Solutions, LLC

A handwritten signature in black ink that reads 'Julie Pratt' in a cursive style.

Julie Anna Pratt  
Senior Project Professional

A handwritten signature in black ink that reads 'Andrew J. Foerg' in a cursive style.

Andrew J. Foerg, CPG  
President

Enclosures

TABLE OF CONTENTS

EXECUTIVE SUMMARY ..... 1

1.0 INTRODUCTION..... 3

    1.1 ASSESSMENT OBJECTIVES..... 4

    1.2 PHASE I ESA SCOPE OF WORK..... 4

    1.3 PHASE I ESA SIGNIFICANT ASSUMPTIONS..... 5

    1.4 RELIANCE STATEMENT ..... 5

    1.5 VIABILITY..... 5

    1.6 LIMITATIONS AND EXCEPTIONS..... 6

2.0 SUBJECT PROPERTY DESCRIPTION..... 7

    2.1 SUBJECT PROPERTY LOCATION AND LEGAL DESCRIPTION..... 7

    2.2 SUBJECT PROPERTY AND VICINITY CHARACTERISTICS ..... 7

3.0 USER/CLIENT PROVIDED INFORMATION..... 7

    3.1 ENVIRONMENTAL LIENS OR ACTIVITY AND USE LIMITATIONS..... 8

    3.2 TITLE RECORDS..... 8

    3.3 USER SPECIALIZED KNOWLEDGE..... 8

    3.4 COMMONLY KNOWN OR REASONABLY ASCERTAINABLE INFORMATION..... 8

    3.5 VALUATION REDUCTION FOR ENVIRONMENTAL ISSUES..... 9

    3.6 REASON FOR PERFORMING THE PHASE I ESA..... 9

    3.7 OTHER USER INFORMATION ..... 9

4.0 PHYSICAL SETTING ..... 10

    4.1 SITE LOCATION ..... 10

    4.2 TOPOGRAPHY ..... 10

    4.3 GEOLOGY..... 10

    4.4 DRAINAGE PATTERNS..... 10

    4.5 LOCAL GROUNDWATER FLOW..... 10

5.0 REGULATORY RECORDS ..... 11

    5.1 STANDARD GOVERNMENT ENVIRONMENTAL RECORDS..... 11

        5.1.1 SITE SUMMARY ..... 11

        5.1.2 SURROUNDING PROPERTY SUMMARY ..... 12

        5.1.3 ORPHAN SITES ..... 12

    5.2 REGULATORY AGENCY FILE AND RECORDS REVIEW..... 12

    5.3 LOCAL ENVIRONMENTAL RECORDS..... 14

6.0 HISTORICAL RECORDS ..... 16

    6.1 AERIAL PHOTOGRAPHS ..... 16

    6.2 HISTORICAL TOPOGRAPHIC MAPS ..... 17

    6.3 SANBORN FIRE INSURANCE MAPS ..... 17

    6.4 CITY DIRECTORIES..... 17

    6.5 PREVIOUS ENVIRONMENTAL DOCUMENTATION ..... 18

    6.6 HISTORICAL USE SUMMARY..... 19

7.0 SITE AND AREA RECONNAISSANCE ..... 20

    7.1 METHODOLOGY AND LIMITING CONDITIONS..... 20

    7.2 CURRENT USE(S) OF THE SUBJECT PROPERTY..... 20

    7.3 PAST USE(S) OF THE SUBJECT PROPERTY ..... 20

    7.4 CURRENT USE(S) OF THE ADJOINING PROPERTIES..... 20

    7.5 PAST USE(S) OF THE ADJOINING PROPERTIES ..... 21

    7.6 CURRENT OR PAST USE(S) OF THE SURROUNDING AREA..... 21

---

7.7 GEOLOGIC, HYDROGEOLOGIC, HYDROLOGIC, AND TOPOGRAPHIC CONDITIONS.....	21
7.8 STRUCTURES AND OTHER IMPROVEMENTS ON THE SUBJECT PROPERTY.....	21
7.9 ROADS.....	21
7.10 UTILITIES, WELLS AND SEPTIC SYSTEMS.....	21
7.11 CHEMICAL USE AND STORAGE.....	21
7.12 STORAGE TANK SYSTEMS.....	22
7.13 ODORS.....	22
7.14 SURFACE WATER, POOLS, SUMPS.....	22
7.15 SUSPECTED POLYCHLORINATED BIPHENYL-CONTAINING EQUIPMENT.....	22
7.16 STAINS OR CORRASION ON FLOORS, WALLS OR CEILINGS.....	22
7.17 DRAINS AND SUMPS.....	22
7.18 STAINED SOIL OR PAVEMENT.....	22
7.19 VEGETATION.....	22
7.20 SOLID WASTE DISPOSAL.....	22
7.21 WASTE/WASTEWATER.....	22
7.22 WELLS.....	23
8.0 INTERVIEWS.....	24
8.1 INTERVIEW WITH SITE OWNER.....	24
8.2 INTERVIEW WITH SITE OPERATOR/OCCUPANT.....	24
8.3 INTERVIEW WITH SITE MANAGER/OTHER.....	24
8.4 INTERVIEWS WITH STATE LOCAL AND GOVERNMENT OFFICIALS.....	24
9.0 ASSESSMENT OF POTENTIAL VAPOR ENCROACHMENT CONDITIONS (VECS).....	25
10.0 NON-SCOPE CONSIDERATIONS.....	26
11.0 FINDINGS AND OPINIONS.....	27
12.0 CONCLUSIONS AND RECOMMENDATIONS.....	27
12.1 CONCLUSIONS.....	28
12.2 DATA GAPS.....	28
12.3 LIMITING CONDITIONS/DEVIATIONS.....	28
12.4 ADDITIONAL INVESTIGATION.....	28
12.5 RECOMMENDATIONS.....	28
13.0 REFERENCES.....	29
14.0 QUALIFICATIONS AND ENVIRONMENTAL PROFESSIONAL STATEMENT.....	30

### List of Figures

Figure 1:	Site Location Map
Figure 2:	Aerial Site Map
Figure 3:	Survey Map

### List of Appendices

Appendix A	Site Photographs
Appendix B	Client Provided Documentation
Appendix C	Environmental Database Report
Appendix D	Local/State/Federal Documentation
Appendix E	Aerial Photographs
Appendix F	Historical Topographic Maps
Appendix G	Sanborn Fire Insurance Maps
Appendix H	City Directory Listings

## EXECUTIVE SUMMARY

Environmental Consulting Solutions, LLC (ECS) was retained to perform a Phase I Environmental Site Assessment (ESA) of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The Phase I ESA was performed in general accordance with All Appropriate Inquiry (AAI) and the American Society for Testing Materials (ASTM) Designation E1527-21 guidelines for Phase I ESAs, except as noted under the Limitations and Exceptions.

The Report was prepared for use by Ann Arbor Housing Development Corporation, who may rely upon the findings of the Report.

### **Purpose:**

The Phase I ESA was conducted to identify to the extent feasible pursuant to ASTM E 1527-21, Recognized Environmental Conditions (RECs) in connection with the subject property associated with a prospective property transaction.

As defined in the ASTM Designation E 1527-21, the term Recognized Environmental Condition means: *(1) the presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or (3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.*

ECS endeavored to perform All Appropriate Inquiries (40 CFR 312 and industry standards) in allowing a user to satisfy the requirements to qualify for one of the affirmative defenses to CERCLA liability, such as Third Party Defense, Innocent Landowner Defense, and Landowner Liability Protections (LLPs) (such as Bona Fide Prospective Purchaser or Contiguous Property Owner). Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject property.

### **Scope of Work:**

The Phase I ESA is a compilation of information obtained from, but not limited to, User's responsibilities, physical setting resources, government records, historical records, site reconnaissance, and owner/operator/occupant and local governmental officials' interviews.

### **General Property Information:**

The subject property for the purpose of this Phase I ESA is the parcel of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. The parcel is a ~0.33 acre piece of land being separated from the parent parcel, 721 N. Main Street, which most recently operated as the City of Ann Arbor municipal garage. The subject property is located in a mixed use, heavily developed area in downtown Ann Arbor, Michigan.

The subject property location is presented in Figure 1. The subject property general features are presented in Figure 2, Aerial Site Map. A survey of the subject property is presented in Figure 3, Survey Map.

The subject property and parent parcel details as obtained from Washtenaw County and City of Ann Arbor municipal records are summarized in the following table:

Parent Parcel	Parent Parcel Address	Subject Property Parcel Address	Subject Property Parcel Details
09-09-20-409-006	721 N. Main	123 W. Summit	~0.33 acre parcel fronting W. Summit

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with overgrown vegetation. The northwest portion of the parcel was accessible and consisted of gravel covered vacant land with some vegetation. The adjoining properties include mixed use with commercial and residential to the north, vacant land to the east followed by single family residential along Summit Street, and commercial/industrial to the south.

Historical documentation indicates the site was first developed sometime circa 1930's for residential use. The property was redeveloped as a parking lot for the adjoining industrial/municipal property to the south. No other known uses were identified.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000 gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

**Conclusions:**

In the professional opinion of ECS, appropriate inquiry has been made into the current and past uses of the subject property consistent with good commercial and customary practice in an effort to minimize liability.

ECS has performed a Phase I ESA in conformance with the scope and limitations of AAI and ASTM E 1527-21 of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 12 of this Report.

**This assessment has revealed no evidence of RECs, Historic RECs, or Controlled RECs in connection with the subject property, with the exception of the following:**

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.

No data failures as defined in ASTM E 1527-21 were encountered during the completion of the Phase I ESA and no significant limitations were noted during the site reconnaissance, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site access was available at the time of the site reconnaissance.

The data gaps, failures and/or limitations were not determined to be material in identifying RECs and/or they are not considered by ASTM standard to be significant based on additional information gathered and ability to draw a conclusion in regard to the prior use of the subject property from the sources reviewed.

## 1.0 INTRODUCTION

Environmental Consulting Solutions, LLC (ECS) was retained to perform a Phase I Environmental Site Assessment (ESA) of the subject property located at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. The subject property location is presented in Figure 1.

### 1.1 Assessment Objectives

This Phase I ESA study was conducted in general accordance with the scope and limitations recommended by the American Society for Testing and Materials (ASTM) in their document E 1527-21, titled: "*Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*". Any exceptions are noted under Limitations and Exceptions found in Section 1.5.

The Phase I ESA was performed in accordance with the United States Environmental Protection Agency's (USEPA) rule identifying federal standards and processes for conducting All Appropriate Inquiry (AAI) codified in Federal Regulation - *40 Code of Federal Regulations (CFR) Part 312 - Standards and Practices for All Appropriate Inquiries*.

The objective of the Phase I ESA is to identify, to the extent feasible in accordance with E1527-21, recognized environmental conditions in connection with the subject property.

According to Section 1.1 of the cited standard, "the purpose of this practice is to define good commercial and customary practice in the United States of America for conducting an environmental site assessment of a parcel of real estate with respect to the range of contaminants within the scope of Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)... and petroleum products". As such, this practice is intended to permit a user to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability...; that is, the practices that constitute "all appropriate inquiry into the previous ownership and use of the property consistent with good commercial or customary standards and practices" as defined in 42 USC § 9601(35)(B)."

The Phase I ESA was conducted to provide information regarding the potential for environmental concerns associated with a prospective property transaction.

### 1.2 Phase I ESA Scope Of Work

The Scope of Services for conducting a Phase I ESA outlined in ASTM practice E 1527-21 and EPA's standards for AAI outlined in *40 CFR Part 312* typically includes the following components: User's responsibilities, physical setting resources, government records, historical records, site reconnaissance, and owner/operator/occupant and local governmental officials' interviews.

In order to fulfill the objectives of this Phase I ESA and meet or exceed due diligence requirements, the following tasks were completed:

- A visual survey of the subject property to identify areas of potential environmental concern. Color photographs were taken to document conditions of the subject property at the time of the site reconnaissance.

- A visual observation of neighboring properties or facilities from the subject property or public access areas to assess whether surface conditions on these properties may have adverse environmental impact on the subject property.
- Collection and review of existing published information relating to general geology, hydrogeology, and topographical information for the subject property and area surrounding the subject property.
- Historical land use review of the subject property and adjoining properties and the surrounding area back to 1940 or the first developed use, whichever occurred earlier.
- A regulatory agency file search to identify federal and state listed sites of known or potential environmental concern located within the minimum search distances from the subject property as specified in ASTM E 1527-21 and EPA's All Appropriate Inquiry codified in federal regulation - *40 CFR, Part 312*.
- Interviews with the subject property owner, the owner's representative(s), representatives of the state, county, and local regulatory agencies, or other persons with knowledge of the subject property.
- Evaluation of compiled information and preparation of a report.

The scope of work does not fulfill the requirements for a regulatory compliance audit, nor does it guarantee a zero-risk level of environmental impairment liability.

This Phase I ESA does not purport to address safety concerns, if any, at the subject property. It also does not establish appropriate safety and health practices, or determine the applicability of health and safety regulatory limitations at the subject property.

### 1.3 Phase I ESA Significant Assumptions

ECS has used and incorporated information provided by private organizations and individuals, as well as municipal, state and federal agencies. However, the Phase I ESA scope of work does not include the independent verification or confirmation of the reliability of this information.

### 1.4 Reliance Statement

ECS realizes that the Report was prepared for use by the Ann Arbor Housing Development Corporation. The named parties may rely upon the findings of the Report.

### 1.5 Viability

The collection dates for each component comprising the Phase I ESA is provided as follows:

Viability of Phase I ESA	
Site Contact Interview	4-22-24
Environmental Lien Search	4-29-24
Regulatory Records Review	04-04-24
Site Reconnaissance	04-17-24
Declaration of Assessment	04-29-24

According to ASTM 1527-21, a Phase I ESA is considered valid if the required components were completed within 180 days prior to the date of acquisition (or date of the intended transaction). A Phase I ESA Update is required if the report is older than 180 days.

## **1.6 Limitations And Exceptions**

This report was prepared for, and can be relied upon by, those authorized parties who have been specifically identified herein. Other use or reliance, implied or otherwise, by any other party is strictly prohibited unless authorized and acknowledged by ECS in writing.

Performance of this Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the subject property. ECS has used and incorporated information provided by private organizations and individuals, as well as municipal, state and federal agencies. However, the Phase I ESA scope of work does not include the independent verification or confirmation of the reliability of this information.

This report is intended to serve only as an indicator of the potential for environmental impairment arising from readily discoverable, improper chemical, waste management and/or disposal activities conducted at the subject property or in the immediate vicinity of the subject property. Regardless of the findings stated in this report, ECS is not responsible for consequences or conditions arising from facts that were concealed, withheld, not fully disclosed, or not readily accessible at the time the assessment was conducted.

Given the availability of data, probable future adjustments in industry standards, the limited scope of due diligence investigations, the future inclusion of new contaminated sites to agency databases, and the further development of information resources, the resulting environmental liability disposition of the subject property is subject to change with time and this Phase I ESA does not guarantee a zero-risk level of environmental impairment liability.

The Executive Summary to the Phase I ESA is intended to be used as an overview of the complete Report findings. The Executive Summary is not intended to be used as a stand-alone document. Interpretation of the conclusions and recommendations should be based on the Report in its entirety. The Phase I ESA report does not represent a legal opinion. Legal opinions regarding potential environmental liability issues as they relate to the subject property and the Phase I ESA should be obtained from a qualified attorney.

## 2.0 SUBJECT PROPERTY DESCRIPTION

### 2.1 Subject Property Location And Legal Description

The subject property for the purpose of this Phase I ESA is the parcel of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. The parcel is a ~0.33 acre piece of land being separated from the parent parcel, 721 N. Main Street, which most recently operated as the City of Ann Arbor municipal garage.

The subject property location is presented in Figure 1. The subject property general features are presented in Figure 2, Aerial Site Map. A survey map of the parcel is presented in Figure 3, Survey Map.

The subject property and parent parcel details as obtained from Washtenaw County and City of Ann Arbor municipal records are summarized in the following table:

Parent Parcel	Parent Parcel Address	Subject Property Parcel Address	Subject Property Parcel Details
09-09-20-409-006	721 N. Main	123 W. Summit	~0.33 acre parcel fronting W. Summit

A certified survey of the parent parcel (721 N. Main) and the new parcel (123 W. Summit) was provided by the Client. The legal description for the subject property parcel is described as follows:

<b>New Parcel – 0.33 Acres</b>
<i>BEGINNING at the Northeast corner of Lot 27 of Assessor's Plat No. 22, recorded in Liber 9 of Plats, Page 6, Washtenaw County Records, Washtenaw County, Michigan; thence S19°13'45"W 97.53 feet along the East line of said Lot 27; thence N70°48'46"W 40.15 feet; thence N19°59'47"E 16.24 feet along the West line of said Lot 27; thence N72°05'49"W 41.21 feet; thence S19°29'18"W 17.24 feet; thence N70°58'26"W 41.97 feet; thence S64°26'35"W 2.36 feet; thence S19°51'36"W 26.44 feet; thence N71°17'10"W 70.22 feet; thence N39°11'58"E 37.31 feet along the Westerly line of Lot 5 of said Assessor's Plat No. 22; thence N66°14'28"E 132.95 feet along the Southeasterly line of Lot 29 of said Assessor's Plat No. 22; thence S72°34'02"E 85.41 feet along the South Right-of-Way line of Summit Street (66 feet wide) to the POINT OF BEGINNING. Being part of Lots 5, 27 and 28 of Assessor's Plat No. 22, located in the SE1/4 of Section 20, T2S, R6E, City of Ann Arbor, Washtenaw County, Michigan, containing 0.33 acres of land, more or less. Being subject to any easements and/or restrictions, if any.</i>

A copy of the certified land survey is included in **Appendix B**.

### 2.2 Subject Property And Vicinity Characteristics

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with overgrown vegetation. The northwest portion of the parcel was accessible and consisted of gravel covered vacant land with some vegetation. The adjoining properties include mixed use with commercial and residential to the north, vacant land to the east followed by single family residential along Summit Street, and commercial/industrial to the south.

### 3.0 USER/CLIENT PROVIDED INFORMATION

Consistent with the requirement of AAI and ASTM E1527-21, ECS provided the user(s) of the Phase I ESA with a questionnaire regarding their specific knowledge of property environmental conditions. Ms. Jennifer Hall, representing the Ann Arbor Housing Development Corporation, provided a completed User/Client Questionnaire.

#### 3.1 Environmental Liens Or Activity And Use Limitations

The Client provided documentation referencing a FEMA Hazard Mitigation Grant deed for the parent parcel (721 N. Main), restricting the floodway and floodplain permanently as open space for the conservation of natural floodplain functions. The proposed subject property parcel is a portion of the parent parcel that is not in the floodway or floodplain.

ECS reviewed a copy of the current EGLE *Remediation and Redevelopment Division Perfected Lien List*. There was no information regarding environmental liens encumbering the subject property (<https://www.michigan.gov/egle/about/organization/remediation-and-redevelopment/rrd-enforcement-perfected-lien-list>).

Evaluation of the EGLE Environmental Mapper on line database did not identify AULs associated with the subject property or adjoining properties. There is a Land Use Restriction in the Ann Arbor area due to groundwater contamination emanating from the Pall Life Sciences (PLS) (formerly known as Gelman Sciences Inc.) facility in Scio Township, Washtenaw County. The subject property is located in the "Prohibition Zone" related to the prohibition of groundwater use. A copy of the order prohibiting groundwater use is included as an attachment in **Appendix D**. (<https://www.mcgi.state.mi.us/environmentalmapper/#>)

#### 3.2 Title Records

ECS was provided with limited title documentation for the parent parcel, consisting of a right-of-way agreement for utilities and roads, as well as a building and use deed restriction for the floodway portion of the Parent Parcel. ECS was provided with a Land Division Survey depicting the parent parcel and subject property parcel. A copy of the client provided title documentation is included in **Appendix B**.

#### 3.3 User Specialized Knowledge

ECS was not provided with any User specialized knowledge.

#### 3.4 Commonly Known Or Reasonably Ascertainable Information

Ms. Hall indicated past use of the parent parcel included the City of Ann Arbor public works facility. Ms. Hall had no knowledge of former chemical storage or spills/releases at the parent parcel. The parent parcel was identified as having the likely presence of contamination.

### **3.5 Valuation Reduction For Environmental Issues**

ECS was not provided with information pertaining to a valuation reduction of the subject property for environmental issues. Ms. Hall indicated the parcel will be purchased from the City of Ann Arbor at below fair market value to develop as affordable housing.

### **3.6 Reason For Performing The Phase I ESA**

The Phase I ESA was conducted to provide a viable Phase I ESA associated with a prospective property transaction.

### **3.7 Other User Information**

No other information regarding possible environmental conditions at the subject property was provided by the User/Client.

## **4.0 PHYSICAL SETTING**

### **4.1 Site Location**

The Subject Property is situated on the south side of W. Summit, west of Main Street and east of Hiscock Street in downtown Ann Arbor, Michigan. The subject property is located in Section 20, T2S R6E. See Figure 1 for the Site Location Map.

### **4.2 Topography**

Based on the site reconnaissance and review of the USGS Topographic Maps, the topography of the parcel is sloped with a general topographic gradient to the east-southeast. The site elevation is approximately 790 feet +/- above mean sea level. The south end of the parcel slopes to the south, with a significant decrease in elevation towards the parent parcel to the south.

### **4.3 Geology**

The Quaternary Geology obtained through EGLE GeoWebFace online resources indicated the surficial geology in the vicinity of the subject property consisted of end moraines of fine-textured till. The bedrock geology was identified as Coldwater Shale.

### **4.4 Drainage Patterns**

Based on the USGS Topographic Maps, and the EDR Radius Map report Geocheck physical setting, the drainage in the area surrounding the subject property was primarily to the east-southeast. The Huron River is located approximately 800 feet +/- to the northeast of the subject site.

### **4.5 Local Groundwater Flow**

Generally, groundwater flow direction would be expected to be consistent with surface water flow and local topography and dependent upon seasonal variation in precipitation. Therefore, it is likely that the groundwater flow direction in the area of the subject property will be toward a nearby surface water or in the direction of flow of the nearby Huron River.

## 5.0 REGULATORY RECORDS

### 5.1 Standard Government Environmental Records

As part of the current study, readily available regulatory database information was reviewed to assess the possible risk for environmental liabilities from regulatory action, hazardous material spills, or documented hazardous waste disposal at the subject property or surrounding properties.

Environmental Data Resources Inc. (EDR) was retained to perform a regulatory agency database search to evaluate the possible presence of federal and state listed sites of known or potential environmental concern that may be located within the recommended minimum search distances from the subject property as specified in ASTM E 1527-21 and EPA's final rule for AAI.

A list of the federal and state databases researched by EDR for the current study, including a brief description of each database searched and their respective search distance radius is presented Appendix C, EDR Radius Map™ Report.

A total of 197 listings (some properties listed multiple times) were identified in the environmental records on the database report.

#### 5.1.1 Site Summary

The subject property parent parcel was identified in numerous governmental databases.

SITE NAME	ADDRESS	DATABASES	*DIST (ft)
City of Ann Arbor Garage, City Garage, Former DPW, City of Ann Arbor	721 N. Main Street	UST, UST Finder Release, RCRA NonGen/NLR, FINDS, ECHO, LUST, Inventory, Part 201, AURS, WDS, AST US Brownfields	Adjoining South

The database listings included RCRA listing confirms the former generation of hazardous waste. NAICS codes were identified as "automotive body, paint, and interior repair and maintenance", as well as "automotive oil change and lubrication shops". There were no violations noted. The LUST status is identified as "closed" and USTs are identified as removed or closed in place. The Inventory/Part 201 listings document the current risk condition as "risks controlled-interim". The AIRS listing identified a permit dated 1996 associated with a soil and groundwater remediation system. The US Brownfields listing documented the use of a Petroleum grant for Phase II ESA conducted in 2012/2013. The EDR listing provided the following highlight:

*Since the late 1920s, the site has been occupied by: the City of Ann Arbor's municipal garage, DPW yard, and departments of fleet services and street maintenance. The City plans to redevelop the site into a public use area. Former Use: In the early 1900s, the site was vacant land with a section of Allen Creek, a tributary to the Huron River, flowing through the site from southwest to northeast. In the late 1920s, Allen Creek was enclosed and the site was first developed for use by the City. Since the late 1920s, the site has been occupied by: the City's municipal garage, DPW yard, and departments of fleet services and street maintenance.*

A FOIA request for available regulatory records was completed for the subject site (refer to Section 5.2).

### 5.1.2 Surrounding Property Summary

The EDR report identified thirty-five (35) listings within 1/8 mile from the subject property. Using the EDR Lightbox online tools, ECS further evaluated the listings located within 350 feet of the subject property. The following listings were noted:

SITE NAME	ADDRESS	DATABASES	*DIST (ft)
815 Wildt St.	815 Wildt St.	Inventory, Part 201, BEA, WDS	311 northwest
Not listed	626-724 N. Main	BEA	319 southeast
Super Test Petroleum, Melvin & Betty Lewis	800 N. Main	Brownfields, US Brownfields, FINDS, EDR Hist Auto, UST, LUST, Inventory UST Finder, UST Finder Release	341 east

\*Distance as listed in EDR Radius Map Report.

Each of the sites in the above table have documented soil and/or groundwater contamination ( i.e. Inventory, BEA). A FOIA request for available regulatory records is warranted for these nearby addresses (refer to Section 5.2).

The remaining listings in the EDR Radius Report do not appear to present a concern to the subject property based on the distance from the subject property, the type of listing, inferred geology/hydrogeology, and/or the potential for engineered barriers between the sites routing subsurface contamination away from the subject property.

### 5.1.3 Orphan Sites

An orphan site is a property that has been identified by EDR as a site within a zip code that has insufficient address information available to accurately plot the property on their map. A review of the EDR Radius Map™ Report indicates that eight orphan sites were identified during their regulatory database search. Using the information provided in the orphan summary, ECS attempted to determine if any of the orphan sites present to the potential to negatively impact the subject property. Based on the information provided, most of the listings were confirmed to be located at a distance that does not present potential for negative impact. A few of the listings did not have enough information to draw a conclusion or further investigate.

## 5.2 Regulatory Agency File And Records Review

In accordance with the Standard, if the subject property or any of the immediately adjoining properties are identified on one or more of the standard government environmental record resources, pertinent regulatory files and/or records associated with the listing should be reviewed. The purpose of the regulatory file review is to obtain sufficient information to assist the Environmental Professional in determining if a REC, HREC, CREC or de minimis condition exists at the subject property in connection with the listing.

Based on the findings summarized in Sections 5.1.1 and 5.1.2, regulatory agency records review was warranted for the subject property parent parcel and nearby properties with documented releases. ECS submitted a FOIA request for records to the Michigan Department of Environment, Great Lakes and Energy (EGLE). The results are summarized in the following sections.

### **721 N. Main – Subject Property Parent Parcel**

Numerous historic records were available for the parent parcel. Much of the work was completed in the 1990's. The processes and procedures as well as analytical testing methods and cleanup criteria have changed significantly since then and the site may be considered non-compliant in accordance with current guidelines and standards.

Some of the observations from review of the documentation included the following:

- Fill material was observed across the site, consisting of silty sand, clayey silt, silty clay and organic matter, including occasional debris.
- The parent parcel is a former landfill where open burning occurred.
- Limited groundwater flow results suggested a southeast flow direction.
- Most of the UST/LUST related assessment was conducted towards the south end of the maintenance building.

The most recent documentation for the parent parcel appears to be a Due Care Plan, dated August 2013, prepared by Tetra Tech. The dispenser situated on the west adjoining parcel was referenced as a CNG dispenser. A former gasoline AST was noted on the parent parcel adjoining to the west of the subject property parcel. It appears that a former street maintenance garage was situated on or immediately adjoining the south portion of the subject property parcel.

A Phase I ESA completed for the parent parcel dated October 2012 identified numerous RECs associated with the parent parcel. The RECs included (but not limited to) the following:

- Stained soils;
- Former USTs;
- Former 16,000 gallon gasoline AST in the northwest corner of the property;
- Soil and groundwater contamination associated with the former gasoline and diesel ASTs
- Soil contamination associated with the former chloride ASTs
- Soil contamination associated with long term road salt storage
- Soil contamination associated with former hydraulic oil USTs/trenches
- Use, storage and handling of petroleum products and other hazardous materials associated with former site activities
- Rail spur on the western side of the site.

### **815 Wildt. Street – Nearby Property to the Northwest**

EGLE provided two files for the nearby property. A Master Data Form generated for the nearby property identified the site as Ann Arbor Bearing and Manufacturing. An incident was reported in 2001: drums of naphtha and oils were noted in an outbuilding behind the abandoned factory. Follow up determined the building was not abandoned and the garage with barrels is their product storage area.

A BEA report dated June 2001 was also provided. The BEA confirmed historic use of the nearby property as Star Motor Company motor truck assembling facility, including identified of USTs, as well as Ann Arbor Bearing and Manufacturing Company, manufacturing precision ground metal parts. Limited subsurface investigation was completed at the nearby property, including six geoprobe soil borings and three hand auger soil borings to a maximum explored depth of 8 feet bgs. VOCs, PNAs and metals were detected at concentrations greater than their respective Generic Residential Cleanup Criteria.

ECS measured the distance from the subject property parcel to the nearby property to be approximately 220 feet. The subject property parcel appears to be downgradient from the Wildt street property, indicating the potential for negative impact to the subject property.

### **626-724 N. Main – Nearby Property to the Southeast**

A search of EGLE FOIA archives provided a BEA report prepared for the nearby property to the southeast dated March 2010. Further evaluation of the distance of this nearby location was determined to be greater than 400 feet to the southeast, in a downgradient location. Based on the findings summarized in the BEA, the distance and location of this BEA site, the potential for negative impact to the subject property site appears minimal.

### **800 N. Main – Nearby Property to the East**

EGLE provided several files for the nearby property. An Environmental Real Estate Assessment Report dated April 2002 was prepared for the nearby property on behalf of the Washtenaw County Brownfield Redevelopment Authority. Historic use of the nearby property was a filling/gasoline station with USTs. A Subsurface Investigation Report dated November 2002 summarized limited subsurface assessment including three geoprobe soil borings advanced to approximately 16 feet bgs. Petroleum VOCs were detected in soil and groundwater at concentrations exceeding the Generic Residential Cleanup Criteria.

Further assessment was conducted at the nearby property circa 2021 funded through EGLE triage services. Soil, groundwater and soil-gas sampling was conducted. VOCs and PNAs were detected at concentrations greater than their respective Generic Residential Cleanup Criteria in soil, groundwater and/or soil-gas.

ECS measured the distance from the subject property parcel to the nearby property to be approximately 330 feet. The subject property parcel appears to be upgradient from the 800 N. Main street property, indicating the potential for negative impact to the subject property appears minimal.

### 5.3 Local Environmental Records

Current and historic records for the subject property address of 123 W. Summit and parent parcel at 721 N. Main were requested by ECS through a FOIA request submitted to the City of Ann Arbor. Records were requested from the Assessing Department, Fire Department and Building Department. A response was received from the City of Ann Arbor dated April 16, 2024. Limited information was provided. The City did provide internet addresses for additional public records. These online resources were also evaluated.

The following items were noted:

- Records for 123 W. Summit were not available.
- The 721 N. Main Parcel is owned by City of Ann Arbor Transportation. Permits identified on the record card include reference to natural gas refueling station, fuel pump island/canopy, remove USTs.
- Historic records identified the parent parcel as the municipal garage. Permits identified on the record card include reference to garages, installation of USTs, ASTs.
- Online permit related items included reference to monitoring wells installed on the parent parcel associated with contamination from the nearby bulk plan to the south/southwest.

ECS also requested available records from the Washtenaw County Environmental Health Department. Limited records were provided associated with the historic UST confirmed releases, a surface spill of gasoline (~10 gallons), and a plumbing investigation confirming illicit discharges to the Allen Creek Storm Drain. A copy of the municipal records is included in Appendix D.

## 6.0 HISTORICAL RECORDS

Historical usage of the subject property and adjoining properties was referenced through reasonably ascertainable records which may have included, but were not necessarily limited to, aerial photographs, historic fire insurance maps (when available), city directories, interviews with persons knowledgeable of subject property conditions, and previous site assessments. See Section 13.0 for references for the records that were reviewed.

### 6.1 Aerial Photographs

Aerial photographs of the subject property and surrounding area were reviewed. The aerial photographs depicted the following:

Year	Subject Property Observations
1937-1940	The quality and scale of the photograph limits observations.
1949-1955	The subject property appears developed with small structure(s).
1962-2006	The subject property appears to be used for vehicle parking.
2009-2020	The parcel appears to be vacant land, with vegetation across the central/east portions.

Year	Adjoining Property Observations
1937-1969	The surrounding area is heavily developed. Vacant land and a railroad are situated to the west. Structures are noted to the north and east (scale limits observations). A large commercial/industrial building is noted to the south.
1973-2000	Adjoining property to the west is used for parking, followed by the railroad. Land to the north of Summit is now vacant and appears to be used for parking. East adjoining appears vacant land followed by residential South remains commercial/industrial use with significant outdoor storage.
2006	Quality of the photograph is poor
2009-2020	Adjoining to the west is vacant, followed by the railroad. The north adjoining parcel was been redeveloped for commercial use. East adjoining remains vacant followed by residential. The south adjoining parcel remains industrial. Exterior storage has decreased significantly.

Except as discussed above, the scale and resolution of the aerial photographs limited observation of special features, such as relief, areas of staining, soil disturbances or areas of outdoor storage.

The subject property was developed for what appears to be residential use sometime prior to 1937. The property was redeveloped for parking for the adjoining industrial property to the south sometime between 1955 and 1962. The parcel remained parking and then vacant land.

With respect to adjoining properties, due to the scale of the photographs, details regarding adjoining property use were limited. No obvious RECs were noted on immediately adjoining properties, with the exception of the long-term use of industrial property adjoining to the south.

Copies of the aerial photographs are presented in Appendix E.

## 6.2 Historical Topographic Maps

Historical topographic maps of the subject property and surrounding area were reviewed. The topographic maps depicted the following:

Year	Subject Property Observations
1902-1908	The scale of the photograph limits observations. The property appears to be vacant land.
1965-1983	The subject property is shaded pink depicting urban land development (no buildings or structures).
2014-2019	There are no buildings/structures depicted on these maps. The topography is depicted as sloping to the southeast.

Year	Adjoining Property Observations
1902-1908	The scale of the photograph limits observations. The railroad to the west is depicted.
1965-1983	The adjoining properties and surrounding area are shaded pink depicting urban land development (no buildings or structures).
2014-2019	There are no buildings/structures depicted on these maps. The topography is depicted as sloping to the northwest.

Historic site use of the subject property and adjoining properties is limited. The area was developed prior to 1902.

Copies of the historical topographic maps in presented in Appendix F.

## 6.3 Sanborn Fire Insurance Maps

Historical Sanborn maps of the subject property and surrounding area were requested from EDR. A review of the Sanborn maps depicted the following:

Year	Subject Property Observations
1888-1908	The subject property is in an unmapped area.
1916-1925	The subject property appears to be vacant land.
1931-1948	The subject property is developed with a residential dwelling.
1972	The subject property is vacant land.

Year	Adjoining Property Observations
1888-1908	The adjoining properties are in an unmapped area.
1916-1925	Vacant land followed by the railroad adjoins to the west. A coal yard is located to the north of Main Street. Residential dwellings adjoin to the east. The parcel to the south is vacant.
1931	A 16,000 gallon gasoline AST is situated on the west adjoining parcel. The coal yard to the north and residential to the east remain. The municipal garage to the south is developed. Immediately adjoining to the south is the heating room with fuel storage.
1948	No significant changes are noted. Additional buildings on the coal yard immediately north of Summit Street are noted.
1972	The gasoline AST to the west is still present. The coal yard is depicted but the structures to the north of Summit are no longer present. Vacant land adjoins to the east. The property to the south is expanded.

The subject property parcel was first developed for residential use sometime between 1925-1931. The parcel was demolished sometime between 1948-1972. No other information was noted on the subject property.

There were several RECs noted associated with the adjoining properties. The long term use of the adjoining property to the north of Summit was a coal yard with various storage building. The long term use of the adjoining property to the south was the municipal garage, with a heating/fuel room immediately adjoining the parcel boundary. A bulk gasoline AST was identified on the adjoining parcel to the west from 1931 to 1972.

ECS also noted long term industrial uses in the nearby area. Industrial development of the 815 Wildt Street property identified the Star Motor Co. Motor Truck Assembling Plant in 1916, including buried gas tank, painting, machine shop and wood working. This property was discussed in the previous sections 5.1 and 5.2. In addition, the Standard Oil Company was noted approximately 475 feet to the southwest with gas tanks and an oil warehouse. The bulk fuel company was identified from 1916 through 1972.

Copies of the historical Sanborn maps in presented in Appendix G.

#### 6.4 City Directories

Historical city address directories of the subject property and surrounding properties, provided by EDR, in roughly five year intervals from 1894 to 2020 were reviewed. ECS consulted with Sanborn maps to confirm historic addresses that may correspond to the subject property. Addresses specific to the subject property parcel (121/123 W. Summit) and parent parcel (721 N. Main) were highlighted in the City Directory resources. The City Directory resources identified the following:

Year	Subject Property Listings (121/123 W. Summit)
1884-1927	Not Listed
1932-1960	Residential
1964-2020	Not Listed

Year	Parent Parcel Listings (721 N. Main)
1884-1927	Not Listed
1932-1960	City Garage/Municipal Garage
1964	Municipal Garage, DPW, Parking & Traffic (paint and sign shop)
1967-1972	Municipal Garage
1977	Not Listed
1982-1992	City Solid Waste Field, City Signs & Signals, City Street Maintenance
1995-2010	Ann Arbor Solid Waste, Street Maintenance
2014-2017	Not Listed
2020	Ann Arbor Recycling

With respect to adjoining properties, address to the east and west along Summit Street were also evaluated. Adjoining address on Summit Street were identified as primarily residential, with the exception of the following uses that may present a potential environmental concern:

- 120 Summit (adjoining north): identified as residential with coal in 1927-1937.
- 124 Summit (adjoining north): identified as residential with coal in 1937-47, and then a Coal Company in 1951-1972.
- 124 Summit was identified as C&J Body Shop in 1977-1987.

A copy of the City Directories is provided in Appendix H.

## **6.5 Previous Environmental Documentation**

Previous environmental reports were not provided by the Client. Available FOIA records were summarized in previous Section 5.2.

## **6.6 Historical Use Summary**

Historical documentation indicates the site was first developed sometime circa 1930's for residential use. The property was redeveloped as a parking lot for the adjoining municipal property to the south. No other known uses were identified.

## 7.0 SITE AND AREA RECONNAISSANCE

The site reconnaissance was performed on April 17, 2024 by Ms. Julie Pratt of ECS. See Appendix A for the Site Photographs obtained during the visual reconnaissance and Figure 2 for the Aerial Site Map.

### 7.1 Methodology And Limiting Conditions

The subject property and adjoining properties were visually observed for visible evidence of ASTM RECs in an effort to determine if a release of petroleum or other hazardous materials has occurred to the site surface, soil, surface water or groundwater. Indications of RECs may include, but are not limited to, evidence of buried or discarded drums or containers, stained, discolored or disturbed soils, stressed vegetation, evidence of pipes or other objects protruding from the ground, and evidence of aboveground and underground storage tanks.

The site reconnaissance was conducted in a manner that allowed for visual observations and identification of subject property features, including structures, open areas, property boundaries, and adjoining properties.

### 7.2 Current Use(s) of the Subject property

The subject property is currently vacant land.

### 7.3 Past Use(s) of the Subject property

Visual observations of the subject property did not provide indication of former site uses.

### 7.4 Current Use(s) of the Adjoining Properties

A limited visual reconnaissance of the adjoining and nearby properties was performed. The reconnaissance was limited to observation of areas visible from the subject property or areas of public access. A summary of current uses of adjoining properties relative to the subject property is listed below:

<b>Adjoining Properties</b>	
North	W. Summit Street, followed by commercial property (driveway/parking and multi-tenant commercial building)
South	City of Ann Arbor Municipal Property
East	Vacant land, followed by residential dwellings
West	Vacant lot, followed by railroad.

ECS observed the adjacent properties from the subject property or public access areas, as accessible. Based upon observations made at the time of ECS's site reconnaissance, the current uses of adjoining properties do not appear to be an environmental concern in relation to the subject property.

The south adjoining property was observed at a distance due to locked fencing, limiting observations regarding current site use. The adjoining property to the south appears to be commercial/industrial, with what appears to be a potential fuel island canopy, industrial buildings and exterior storage of debris.

### **7.5 Past Use(s) of the Adjoining properties**

ECS visually observed adjoining properties for past uses that present a potential environmental concern. The adjoining lot to the west has what appears to be a potential former dispenser island. Based on the FOIA documentation reviewed, this was identified as a CNG dispenser. As noted above, the adjoining property to the south appears to be a former commercial/industrial property.

### **7.6 Current or Past Use(s) of the Surrounding Area**

The surrounding area is mostly urban land development in an established mixed-use neighborhood. Visual observations of the surrounding area did not identify any obvious past uses that present an environmental concern.

### **7.7 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions**

Physical setting observations and information were previously described in Section 4.0.

Visual observations did not indicate any obvious evidence that there likely is or was a release of hazardous substances or petroleum products at a nearby property that may migrate to the subject property.

### **7.8 Structures and Other Improvements on the Subject Property**

There are no buildings/structures on the subject property. The western portion is gravel covered and partially accessible. Most of the subject property parcel is enclosed in locked fencing and was viewed from a distance. The fenced portion is covered with overgrown vegetation.

Driveway access from W. Summit Street provides access the northwest portion of the parcel.

### **7.9 Roads**

There are no public roads currently present on the subject property. The property is accessible by driveway access from W. Summit Street.

### **7.10 Utilities, Wells And Septic Systems**

No obvious visual indications of drinking water wells or septic systems were noted at the subject property. Utilities available at the subject property are unconfirmed.

### **7.11 Chemical Use And Storage**

There was no obvious evidence of any hazardous substances or petroleum products noted on the subject property in connection with use of the subject property.

## **7.12 Storage Tank Systems**

The subject property was visually observed for signs of current or former underground storage tanks (USTs) and aboveground storage tanks (ASTs). Typical indicators of USTs include pump islands, fill or vent piping, excavations, man hole covers, etc. There were no obvious indicators of current ASTs or USTs at the subject property.

## **7.13 Odors**

There were no strong, pungent or noxious odors observed on the subject property.

## **7.14 Surface Water, Pools, Sumps**

No standing surface water, pools or sumps containing liquids likely to be hazardous substances or petroleum products was observed on the subject property.

## **7.15 Suspected Polychlorinated Biphenyl-Containing Equipment**

The subject property was observed for suspected polychlorinated biphenyl (PCB) containing equipment, such as electrical transformers and capacitors. No obvious evidence of PCB containing equipment was noted.

## **7.16 Stains or Corrosion on Floors, Walls or Ceilings**

There are no buildings/structures on the subject property.

## **7.17 Drains and Sumps**

Drains or sumps were not observed on the subject site.

## **7.18 Stained Soil or Pavement**

ECS did not observe obvious evidence of stained soil or stained pavement on the subject property.

## **7.19 Vegetation**

The northwest portion of the subject property includes limited vegetation within a gravel parking area. Most of the parcel was enclosed in locked fencing and was observed to have overgrown vegetation. No obvious evidence of stressed vegetation due to environmental concerns was noted.

## **7.20 Solid Waste Disposal**

No obvious mounds or depressions suggesting trash or other solid waste disposal was observed.

## **7.21 Waste/Wastewater**

No obvious wastewater or other liquid is known to be discharged from or to the subject property.

## 7.22 Wells

No evidence or indication of any dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells or other wells were noted on the subject property.

## **8.0 OWNER/OCCUPANT INTERVIEWS**

An owner/occupant questionnaire was completed by a representative of the City of Ann Arbor.

### **8.1 Interview With Site Owner**

Mr. Matt Kulhanek, Fleet & Facilities division with the City of Ann Arbor provided the completed questionnaire. Municipal site use was identified as vacant/storage from 2007 to current, with historic site use as municipal public works from circa 1930's to 2007. Several of the questions were answered affirmatively, with the following comments provided:

- The parent parcel at 721 N. Main had industrial use as a public works site.
- The parent parcel had former fuel operations, vehicle repair operations, as well as DTE natural gas filling station.
- The parent parcel had soil testing; no knowledge of results.

### **8.2 Interview With Site Operator/Occupant**

No other interviews were conducted.

### **8.3 Interview With Site Manager/Other**

No other interviews were conducted.

### **8.4 Interviews With State Local And Government Officials**

As previously discussed in Sections 5.2 through 5.4, Ann Arbor and Washtenaw County had limited records pertaining to the subject property. No other interviews with state or local governmental officials were conducted.

## 9.0 ASSESSMENT OF POTENTIAL VAPOR ENCROACHMENT CONDITIONS (VECs)

ECS completed a Tier I and non-invasive Tier II Vapor Encroachment Screen (VES) of the subject property. The Tier I and non-invasive Tier II VES was conducted in general accordance with the guidelines established by the American Society for Testing and Materials (ASTM) in the Standard Practice for Assessment of Vapor Intrusion into Structures on Property Involved in Real Estate Transactions Designation E 2600-10 (ASTM Standard Practice E 2600-10).

The purpose of the VES was to determine if potential Vapor Encroachment Concerns (pVECs) or Vapor Encroachment Concerns (VECs) exist in association with the subject property. ASTM's Standard Practice E 2600-10 defines the term VEC as the presence or likely presence of any contaminant of concern (COC) in the indoor air environment of existing or planned structures on a property caused by the release of vapor from contaminated soil or groundwater either on the property or within close proximity to the property, at a concentration that presents or may present an unacceptable health risk to occupants. A VEC can be further defined as any COC within 100 feet for soil impacts or ground water impacts of an existing/planned structure or to the target property boundary if there are no planned structures.

The scope of this Tier I VES included a review of the geologic, hydrologic, hydrogeologic, topographic maps, aerial photography, city directories and a review of regulatory databases and other pertinent data obtained during the preparation of the Phase I.

The Tier II component of this VES included the use of professional judgment for additional nearby properties outside of the scope of a typical Phase I records review. No subsurface investigation of the property was undertaken as part of this Tier I and non-invasive Tier II VES.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000 gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

Additional assessment appears warranted to further evaluate the potential for vapor encroachment beneath the subject property parcel from adjoining and nearby sources.

## 10.0 NON-SCOPE CONSIDERATIONS

Environmental concerns, which are beyond the scope of a Phase I ESA as defined by ASTM include the following: ACMs, lead based paint, radon, water infiltration, mold and/or wetlands. These issues may affect environmental risk at the subject property and may warrant discussion and/or assessment; however, they are considered non-scope issues.

## 11.0 FINDINGS AND OPINIONS

In the professional opinion of ECS, appropriate inquiry has been made into the current and past uses of the subject property consistent with good commercial and customary practice in an effort to minimize liability.

At the time of site reconnaissance, the subject property was vacant land. Most of the parcel was enclosed with locked fencing and observed to be vacant land with overgrown vegetation. The northwest portion of the parcel was accessible and consisted of gravel covered vacant land with some vegetation. The adjoining properties include mixed use with commercial and residential to the north, vacant land to the east followed by single family residential along Summit Street, and commercial/industrial to the south.

Historical documentation indicates the site was first developed sometime circa 1930's for residential use. The property was redeveloped as a parking lot for the adjoining industrial/municipal property to the south. No other known uses were identified.

Numerous historical resources provided documentation pertaining to historic site uses of potential concern adjoining and surrounding the subject property parcel. Based on the governmental database findings, the parent parcel is a known site of soil and groundwater contamination. Contamination on the parent parcel has been identified associated with historic leaking USTs. The parent parcel was also referenced as a former landfill in addition to having used, stored and handled petroleum products and other chemicals. Historic Sanborn maps identify a former bulk 16,000 gallon AST noted on the parent parcel immediately adjoining to the west of the subject property as well as a municipal garage with fuel storage immediately adjoining to the south.

A Due Care Plan previously prepared for the parent parcel identifies soil and groundwater contamination, including concentrations of vinyl chloride, chloride, lead, PNAs at levels in groundwater above residential cleanup criteria. Hence, the parent parcel is classified as a "facility" in accordance with Part 201 of PA 451, as amended.

In addition, evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). Historic long-term industrial use of these nearby sites may have potential to negatively impact the subject property.

## 12.0 CONCLUSIONS AND RECOMMENDATIONS

### 12.1 CONCLUSIONS

ECS has performed a Phase I ESA in conformance with the scope and limitations of AAI and ASTM E 1527-21 of the vacant parcel of land at 123 W. Summit in Ann Arbor, Washtenaw County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 12.2 of this Report.

**This assessment has revealed no evidence of RECs, Historic RECs, or Controlled RECs in connection with the subject property, with the exception of the following:**

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.

### 12.2 Data Gaps

No data failures as defined in ASTM E 1527-21 were encountered during the completion of the Phase I ESA and no significant limitations were noted during the site reconnaissance, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site access was available at the time of the site reconnaissance.

The data gaps, failures and/or limitations were not determined to be material in identifying RECs and/or they are not considered by ASTM standard to be significant based on additional information gathered and ability to draw a conclusion in regard to the prior use of the subject property from the sources reviewed

### 12.3 Limiting Conditions/Deviations

No deviations to the stated scope of work, Section 1.2, were identified during the completion of the Phase I ESA. Limited site access was available at the time of the site reconnaissance.

### 12.4 Additional Investigation

No additional investigation was conducted beyond the Phase I ESA scope of work.

### 12.5 Recommendations

Based on the identification of REC's and pVEC's, further assessment is recommended.

### 13.0 REFERENCES

ASTM Standard E1527-13, 2033, " Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process," ASTM International, West Conshohocken, PA, 2013, DOI: 10.1520/E1527, www.astm.org.

Code of Federal Regulations. "National Oil and Hazardous Substances Pollution Contingency Plan (40 CFR, Part 300), Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)", July 2003.

Environmental Data Resources (EDR), Inc. "EDR-Radius Map™ April 2024.

---. *EDR Aerial Photo Decade Package*

---. *Certified Sanborn® Map Report*

---. *EDR City Directory Image Report*

---. *EDR Historical Topographic Map Report*

Michigan Legislature. "Natural Resources and Environmental Protection Act (Act 451), Environmental Remediation (Part 201)", 1994.

State of Michigan. Department of Environment, Great Lakes and Energy, GeoWebFace and Environmental Mapper online resources.

#### 14.0 QUALIFICATIONS AND ENVIRONMENTAL PROFESSIONAL STATEMENT

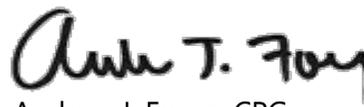
We declare that, to the best of our knowledge and belief, we meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312 and we have the specific qualifications based on education, training and experience to assess a property of the nature, history and setting of the subject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

The Phase I ESA site reconnaissance was performed by Ms. Pratt and this Phase I ESA was written by Ms. Julie Pratt. Mr. Andrew Foerg, provided oversight and report review. Ms. Pratt has over 25 years of experience performing Phase I ESAs. Mr. Foerg has over 35 years of experience performing Phase I ESAs. All work associated with the research and development of this report was performed by qualified personnel and was performed in general accordance with ASTM E 1527-21 and EPA's standards for AAI described in *40 CFR Part 312*.

All of which is respectfully submitted,

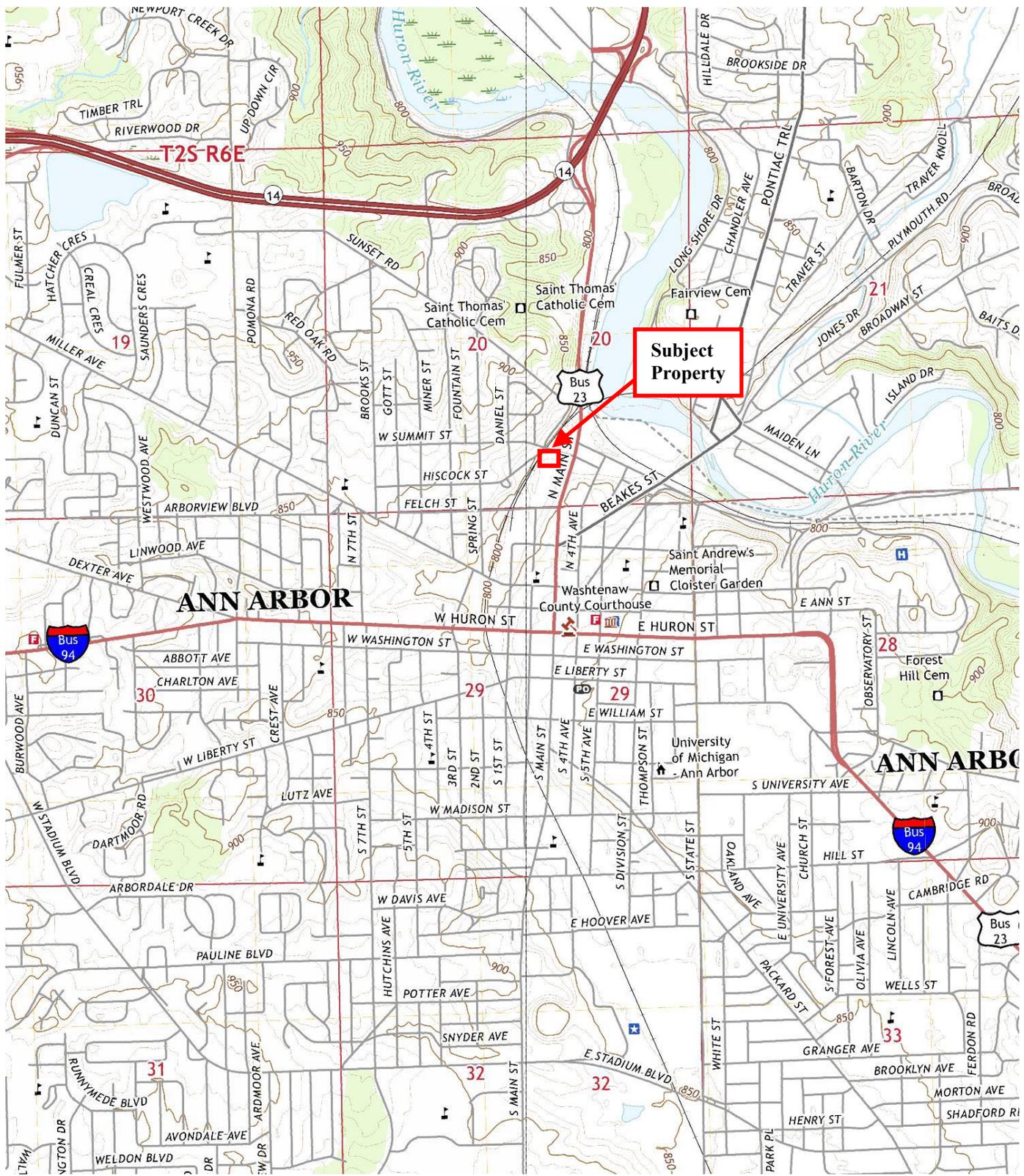


Julie Anna Pratt  
Senior Project Professional



Andrew J. Foerg, CPG  
President

Enclosures



**Legend**

Approximate Property Boundary



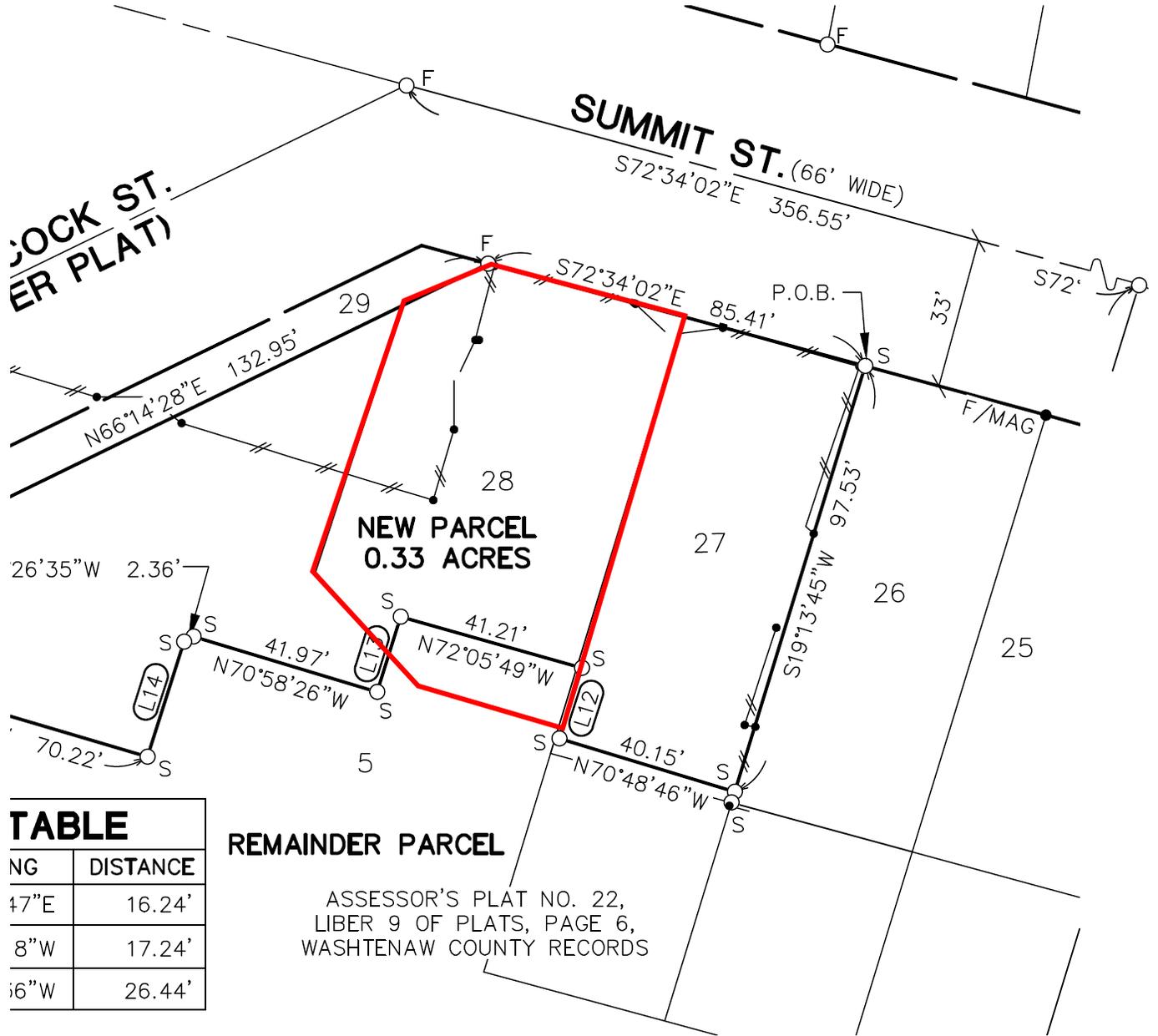


***Legend***


 Approximate Property Boundary



CERTIFIED SURVEY OF A PARCEL OF LAND IN THE SE 1/4 OF SECTION 20,  
T2S, R6E, CITY OF ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



**TABLE**

ANG	DISTANCE
47"E	16.24'
8"W	17.24'
16"W	26.44'

**REMAINDER PARCEL**

ASSESSOR'S PLAT NO. 22,  
LIBER 9 OF PLATS, PAGE 6,  
WASHTENAW COUNTY RECORDS

**Legend**

Approximate Property Boundary



**APPENDIX A**  
**Site Photographs**



Photograph 1: View looking north along the northwest portion of the subject property parcel.



Photograph 2: View looking south along the west portion of the parcel.



Photograph 3: View near the north portion of the parcel, not accessible due to locked fencing.



Photograph 4: View of vacant land and overgrown vegetation across the subject parcel.



West portion of fenced area is the Subject Property

East portion of fenced area is the adjoining parcel.

Photograph 5: View looking west along W. Summit.



Photograph 6: Looking south across the fenced in area (estimated east boundary area).



Photograph 7: Looking south across the east adjoining vacant parcel (fenced in).



Photograph 8: Looking west towards the adjoining vacant parcel towards the nearby railroad and former CNG dispenser.



Photograph 9: View of adjoining property to the south.



Photograph 10: Adjoining property to the north of W. Summit.

**Appendix B**  
**Phase II ESA Documentation**



environmental consulting solutions  
523 W. Sunnybrook Drive, Royal Oak, Michigan 48073

June 26, 2024

Jennifer Hall  
Ann Arbor Housing Development Corporation  
200 S. Industrial Highway  
Ann Arbor, MI 48104

**RE: Phase II Environmental Site Assessment Report  
123 W. Summit  
Ann Arbor, Michigan  
Project A121-0001-04**

Dear Ms. Hall:

Environmental Consulting Solutions, LLC (ECS) has completed the Phase II Environmental Site Assessment (ESA) at the above referenced property. The attached Phase II ESA Report provides a summary of the site assessment activities conducted and associated findings.

We are pleased to provide this service and hope that we can be of service in the future. Should you have any questions or require further information, please do not hesitate to call us at (248) 763-3639.

Respectfully submitted,  
Environmental Consulting Solutions, LLC

A handwritten signature in black ink that reads 'Julie Pratt' in a cursive, flowing script.

Julie Anna Pratt  
Senior Project Professional

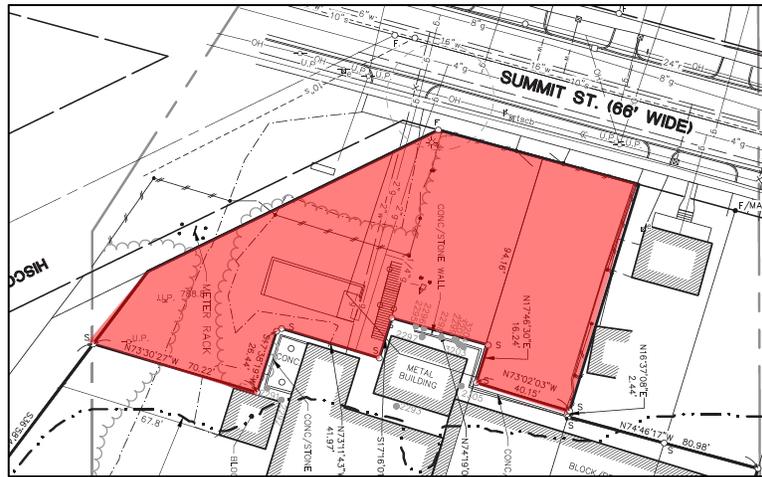
A handwritten signature in black ink that reads 'Andrew J. Foerg' in a cursive, flowing script.

Andrew J. Foerg, CPG  
President

Enclosure

# PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT

123 W. SUMMIT  
ANN ARBOR, WASHTENAW COUNTY, MICHIGAN



ECS PROJECT A121-0001-04  
JUNE 26, 2024

Prepared for:

JENNIFER HALL  
ANN ARBOR HOUSING DEVELOPMENT CORPORATION  
200 S. INDUSTRIAL HIGHWAY  
ANN ARBOR, MI 48104

Submitted by:



523 W. SUNNYBROOK DRIVE  
ROYAL OAK, MICHIGAN 48073  
(248) 763-3639

[www.environmentalconsultingsolutions.com](http://www.environmentalconsultingsolutions.com)

## TABLE OF CONTENTS

1.0	BACKGROUND .....	1
1.1	Site Description.....	1
1.2	Previous Assessments.....	1
2.0	PHASE II ESA SUBSURFACE EVALUATION .....	2
2.1	Soil and Groundwater Evaluation .....	2
2.1.1	Quality Assurance/Quality Control.....	2
2.1.2	Laboratory Analyses and Methods.....	3
3.0	EVALUATION AND PRESENTATION OF PHASE II ESA RESULTS.....	4
3.1	Subsurface Conditions .....	4
3.1.1	Soil Conditions Based on Published Material.....	4
3.1.2	Subsurface Conditions Based on Field Observations.....	4
4.0	ASSESSMENT OF GENERIC CRITERIA.....	5
4.1	Laboratory Analytical Results .....	5
4.2	Evaluation of Due Care Compliance.....	6
5.0	CONCLUSIONS.....	8

## ATTACHMENTS

### Figures

- Figure 1: Site Map with Soil Boring Locations
- Figure 2: Site Map with Soil Analytical Results
- Figure 3: Site Map with Groundwater Analytical Results

### Tables

- Table 1: Soil Sample Analytical Results
- Table 2: Groundwater Sample Analytical Results

### Appendices

- Appendix A: Soil Boring Logs
- Appendix B: Laboratory Analytical Reports

## 1.0 BACKGROUND

Environmental Consulting Solutions, LLC (ECS) was contracted to provide professional environmental services associated with the 123 W. Summit parcel located in Ann Arbor, Michigan (subject property). The scope of work included a Phase II ESA to address the potential for subsurface contamination associated with RECs identified in a previous Phase I ESA dated April 29, 2024.

### 1.1 Site Description

The subject property is the parcel of vacant land located at 123 W. Summit, west of Main Street, and east of Hiscock Street. Most of the parcel is partially enclosed with locked fencing and was observed to be vacant land with overgrown vegetation. The adjoining properties include mixed use with commercial and residential to the north, vacant land to the east followed by single family residential along Summit Street, and commercial/industrial to the south (City of Ann Arbor DPW property).

Refer to **Figure 1** for an Aerial Site Map.

### 1.2 Previous Assessments

A Phase I ESA Report dated April 29, 2024, was prepared by ECS. RECs were identified as follows:

- Based on the governmental database findings and FOIA documentation reviewed, the parent parcel is a known Part 201 and Part 213 site of soil and groundwater contamination. Contamination on the parent parcel has been identified at concentrations greater than the Generic Residential Cleanup Criteria, resulting in "facility" classification.
- Evaluation of historic sources identify the adjoining former coal company to the north in addition to former automotive manufacturing to the northwest (upgradient). These nearby industrial facilities are located upgradient and appear to have potential to negatively impact the subject property.

No data failures as defined in ASTM E 1527-21 were encountered during the completion of the Phase I ESA and no significant limitations were noted during the site reconnaissance, with the exception of the following:

- First developed use of the subject property was residential. Documentation regarding historic heat source and the use of any backfill materials used following demolition are unconfirmed.
- Limited site access was available at the time of the site reconnaissance.

## 2.0 PHASE II ESA SUBSURFACE EVALUATION

ECS conducted a Phase II ESA investigation at the subject property to address the RECs and significant data gap.

### 2.1 Soil and Groundwater Evaluation

On June 6, 2024, ECS mobilized to the subject property with a geoprobe drilling contractor, Midwest Analytical Services, Inc. (MAS), of Ferndale, Michigan, with the objective of installing soil borings and, if groundwater was encountered, temporary groundwater monitoring wells, under the direct supervision of ECS personnel. A total of six soil borings (SB-1 through SB-6) were advanced for sample collection and field screening. MAS used hydraulic drive/direct-push (Geoprobe®) sampling techniques and generally followed the drilling procedures outlined in ASTM publication D 6282-98 "*Standard Guide for Direct Push Soil Sampling for Environmental Site Characterizations*".

Continuous soil samples were collected from the soil borings in four-foot intervals to the maximum depth explored of approximately 20 feet below ground surface (bgs). ECS personnel inspected, field-screened, and logged the soils at each soil boring location.

Soils collected from discrete sample intervals were screened using the PID to determine if volatile compounds were present. Soil from specific depths was placed in plastic bags, sealed, and allowed to volatilize. The headspace within each bag was then monitored with the PID. The PID is able to detect trace levels of organic compounds in the air space within the plastic bag.

Groundwater was encountered in each of the soil boring locations during the Phase II ESA activities. Groundwater samples were collected from SB-1 through SB-6 for potential laboratory analysis

Soil/groundwater sample selection for laboratory analysis was based on field screening observations as well as the depth most likely to address the potential REC. The locations of the soil borings are depicted on **Figure 1**.

#### 2.1.1 Quality Assurance/Quality Control

To ensure the accuracy of data collected during on site activities, ECS and MAS employed proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to, (1) subsurface utility locating; (2) decontamination of sampling equipment before and between sampling events; (3) calibration of field equipment; (4) documentation of field activities; and (5) sample preservation techniques.

##### 2.1.1.1 Subsurface Utility Locating

Prior to any ground disturbing activities, MAS contacted the Miss Dig utility locating system requesting utility location services at the Site. ECS specifically requested that utilities be located across the Site.

## 2.2.1.2      **Decontamination of Equipment**

During sample collection, ECS and MAS adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples: steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent (i.e., Alconox®), rinsing the equipment and air-drying the equipment.

## 2.1.1.3      **Calibration of Field Equipment**

All field instruments were calibrated prior to first use on-site to ensure accuracy. Field instruments utilized during investigation activities at this subject property included a photoionization detector (PID). During ECS's Phase II ESA, the PID was used to screen all soil samples.

## 2.1.1.4      **Documentation of Activities**

During ECS's Phase II ESA activities, subject property conditions (i.e., soil boring locations, weather conditions) were documented. ECS visually inspected the soils and prepared a geologic log for each soil boring. The logs include soil characteristics such as (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture and suspected water table depth, and (4) signs of possible impact (i.e., stained or discolored soil, odors, PID readings etc.).

All selected samples were delivered to a qualified analytical laboratory, Midwest Analytical Services, under chain-of-custody documentation. See **Appendix A** for ECS's soil boring logs and **Appendix B** for laboratory chain-of-custody documentation.

## 2.1.1.5      **Sample Preservation Techniques**

ECS collected soil samples in general accordance with USEPA Publication SW-846, "*Test Methods for Evaluating Solid Waste.*" Soil samples for VOC analysis were preserved with methanol in accordance with Method 5035A. Soil samples for remaining analyses and the groundwater samples collected were placed in appropriately labeled laboratory-supplied containers with Teflon lined lids. All samples were placed in an ice packed cooler and transported under chain of custody procedure for laboratory analysis within applicable holding times.

## 2.1.2      **Laboratory Analyses and Methods**

Soil borings SB-1 through SB-6 were completed to address the RECs identified in the previous Phase I ESA. ECS submitted selected soil/groundwater samples to MAS for laboratory analyses.

The laboratory analytical methods included one or more of the following:

- Volatile Organic Compounds (VOCs) by Method 8260.
- Polynuclear Aromatics (PNAs) by Method 8270.
- 10 Michigan Metals (MM) by Method 6010/6020

### **3.0 EVALUATION AND PRESENTATION OF PHASE II ESA RESULTS**

#### **3.1 Subsurface Conditions**

##### **3.1.1 Soil Conditions Based on Published Material**

Based on the site reconnaissance and review of the USGS Topographic Maps, the topography of the parcel is sloped with a general topographic gradient to the east-southeast. The site elevation is approximately 790 feet +/- above mean sea level. The south end of the parcel slopes to the south, with a significant decrease in elevation towards the parent parcel to the south.

The Quaternary Geology obtained through EGLE GeoWebFace online resources indicated the surficial geology in the vicinity of the subject property consisted of end moraines of fine-textured till. The bedrock geology was identified as Coldwater Shale.

##### **3.1.2 Subsurface Conditions Based on Field Observations**

During Phase II ESA drilling activities, ECS encountered the following:

- A surface layer of asphalt or lawn (grass/topsoil), underlain by varying layers of sand, clay, silt and gravel.
- Evidence of fill material was noted in several of the soil borings. Evidence of industrial-type fill material included cinder, glass, brick, concrete, coal and cement.
- Saturated conditions (i.e., groundwater) were encountered in each of the soil boring locations.

PID readings greater than 1.0 parts per million (ppm) were not detected in any the soil borings. No evidence of apparent petroleum or chemical type odors was noted during field activities.

See **Figure 1** for soil boring locations. See **Appendix A** for soil boring logs.

## 4.0 ASSESSMENT OF GENERIC CRITERIA

The Michigan Department of Environment, Great Lakes and Energy (EGLE) Part 201 Generic Residential Cleanup Criteria (GRCC) and Statewide Default Background Levels were used to compare soil results.

The Part 201 GRCC were used to compare groundwater results.

In addition to the Part 201 Generic Soil Volatilization to Indoor Air Criteria (SVIAC), ECS compared the soil and groundwater results to their respective Residential Soil Volatilization to Indoor Air Pathway (VIAP) Screening Levels.

### 4.1 Laboratory Analytical Results

**Figure 2** presents the soil boring locations with soil sample analytical results. **Figure 3** presents the soil boring locations with groundwater sample analytical results. A summary of the soil and groundwater sample analytical data is presented in **Tables 1 and 2**, respectively. A copy of laboratory report and chain of custody documentation is presented in **Appendix B**.

The laboratory results were as follows:

#### Soil:

VOCs were detected in three of eight soil samples analyzed.

- VOC compounds detected above their respective laboratory method detection limits included Benzene, Ethylbenzene, Isopropyl benzene, n-Propyl benzene, Toluene, 2-Methylnaphthalene, Naphthalene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, 1,2,3-Trimethylbenzene and Xylenes.
- VOC concentrations were less than each of the applicable Part 201 GRCC, with the exception of xylenes detected in two soil samples (SB-2 and SB-3) at concentrations greater than the Part 201 GRCC for Groundwater Surface Water Interface (GSI).
- VOC concentrations observed in three of the samples were at levels exceeding their respective Residential VIAP Screening Levels.

PNAs were detected in six of the eight soil samples analyzed.

- Each of the 17 PNA compounds in the laboratory scan, with the exception of Acenaphthene, were detected at concentrations above their respective laboratory method detection limits.
- PNA concentrations exceeded the Part 201 GRCC for direct contact and GSI in the SB-3 and SB-5 soil samples.
- PNA concentrations were less than each of the applicable Part 201 GRCC for volatilization to indoor air and ambient air.
- PNA concentrations observed in the SB-3 and SB-5 soil samples were at levels exceeding their respective Residential VIAP Screening Levels.

Metals were detected in each of the soil samples analyzed. Because metals are naturally occurring, ECS first compared the detected soil concentrations of metals to their respective statewide default background levels (SDBLs). If the SDBLs were exceeded, ECS then compared the metals concentration to the applicable EGLE GRCC.

- Arsenic was detected in each of the eight soil samples analyzed at concentrations greater than its Part 201 GRCC for direct contact, as well as drinking water and GSI
- Lead was detected in two of the eight soil samples (SB-1 and SB-4) analyzed at concentrations greater than its Part 201 GRCC for direct contact.
- Mercury was detected in one of the eight soil samples at concentrations greater than the SDBL. Concentrations were less than the Part 201 GRCC for Soil Volatilization to Indoor Air, but were greater than the Residential VIAP Screening Level.

#### **Groundwater:**

VOCs were not detected in any of the four groundwater samples analyzed.

PNAs were detected in one of the four groundwater samples analyzed.

- Eight of the 17 PNA compounds in the laboratory scan were detected at concentrations above their respective laboratory method detection limits.
- PNA concentrations exceeded the Part 201 GRCC for drinking water and/or GSI.
- PNA concentrations were less than each of the applicable Part 201 GRCC for volatilization to indoor air and ambient air.
- PNA concentrations were at levels less than their respective Residential VIAP Screening Levels.
- The concentrations of Benzo(b)fluoranthene and Chrysene were at levels exceeding their groundwater saturation criteria. This is an indicator of potential non-aqueous phase liquids may be present.

Metals were detected in each of the groundwater samples analyzed.

- Each of the ten metals analyzed were detected at concentrations greater than their Part 201 GRCC for drinking water and/or GSI.
- Mercury was detected in one of the four groundwater samples at concentrations less than the Part 201 GRCC for Groundwater Volatilization to Indoor Air, but greater than the Residential VIAP Screening Level.

#### **4.2 Evaluation of Due Care Compliance**

Based on the findings, the subject property is considered a "facility" as defined by NRPEA. A "facility" is a site with soil and/or groundwater contamination at a concentration greater than the most restrictive Part 201 GRCC.

Owner and operators of a “facility” are required to take actions to ensure that the contamination does not cause an unacceptable exposure and to ensure safe use of the property. Relevant exposure pathways are evaluated based on the current development and intended future use.

The following table discusses the relevant pathways based on the intended future use as residential.

Relevant Exposure Pathways		
Pathway	Discussion	Recommendations
Drinking Water	Not Complete – Municipal Supply Drinking Water	Exceedances of GRCC do not require further assessment for incomplete pathways.
Groundwater-Surface Water Interface	Not Complete – No surface water on-Site	Exceedances of GRCC do not require further assessment for incomplete pathways.
Direct Contact	Complete	Arsenic, lead and benzo(a)pyrene were detected at concentrations exceeding GRCC for Direct Contact. Response actions/mitigation measures will be required.
Soil Particulate Inhalation	Complete	<GRCC. No further assessment required. No mitigation necessary.
Soil Volatilization to Ambient Air	Complete	<GRCC. No further assessment required. No mitigation necessary.
Volatilization to Indoor Air Pathway	Potentially Complete – assuming residential buildings	Mercury, Naphthalene, Phenanthrene, Benzene, Ethylbenzene, Isopropyl benzene, 1,2,4-Trimethylbenzene, 1,3,5-Trimethylbenzene, and Xylenes were detected at concentrations exceeding Residential VIAP Screening Levels. Response actions/mitigation measures will be required.

## 5.0 CONCLUSIONS

ECS conducted a Phase II ESA at the 123 W. Summit property to evaluate potential subsurface impact from the RECs identified in the April 2024 Phase I ESA. The results of ECS's Phase II ESA indicate the following:

- Field screening observations did identify evidence of apparent industrial-type fill material across the subject property.
- Soil and groundwater concentrations were detected at levels exceeding the Part 201 GRCC, resulting in the subject property being classified as a "facility".
- Based on the results of the Phase II ESA, soil direct contact and soil volatilization to indoor air are complete potential human exposure pathways based on the proposed future residential land use. Response actions/mitigation measures are warranted.

Based on the facility classification, should the Ann Arbor Housing Development Corporation decide to purchase the subject property, a Baseline Environmental Assessment (BEA) is recommended to be completed with 45 days of purchase or occupancy.

In addition, in anticipation of redevelopment of the parcel for residential low-income housing, it is likely that additional site investigation would be required to provide full site characterization, including but not limited to soil-gas sampling/analysis and additional soil and groundwater sampling/analysis.

Response actions/mitigation measures would be warranted to address any complete pathways that have potential for human exposures.

## Attachments

### Figures

- Figure 1: Aerial Site Map with Boring Locations
- Figure 2: Soil Analytical Results Map
- Figure 3: Groundwater Analytical Results Map

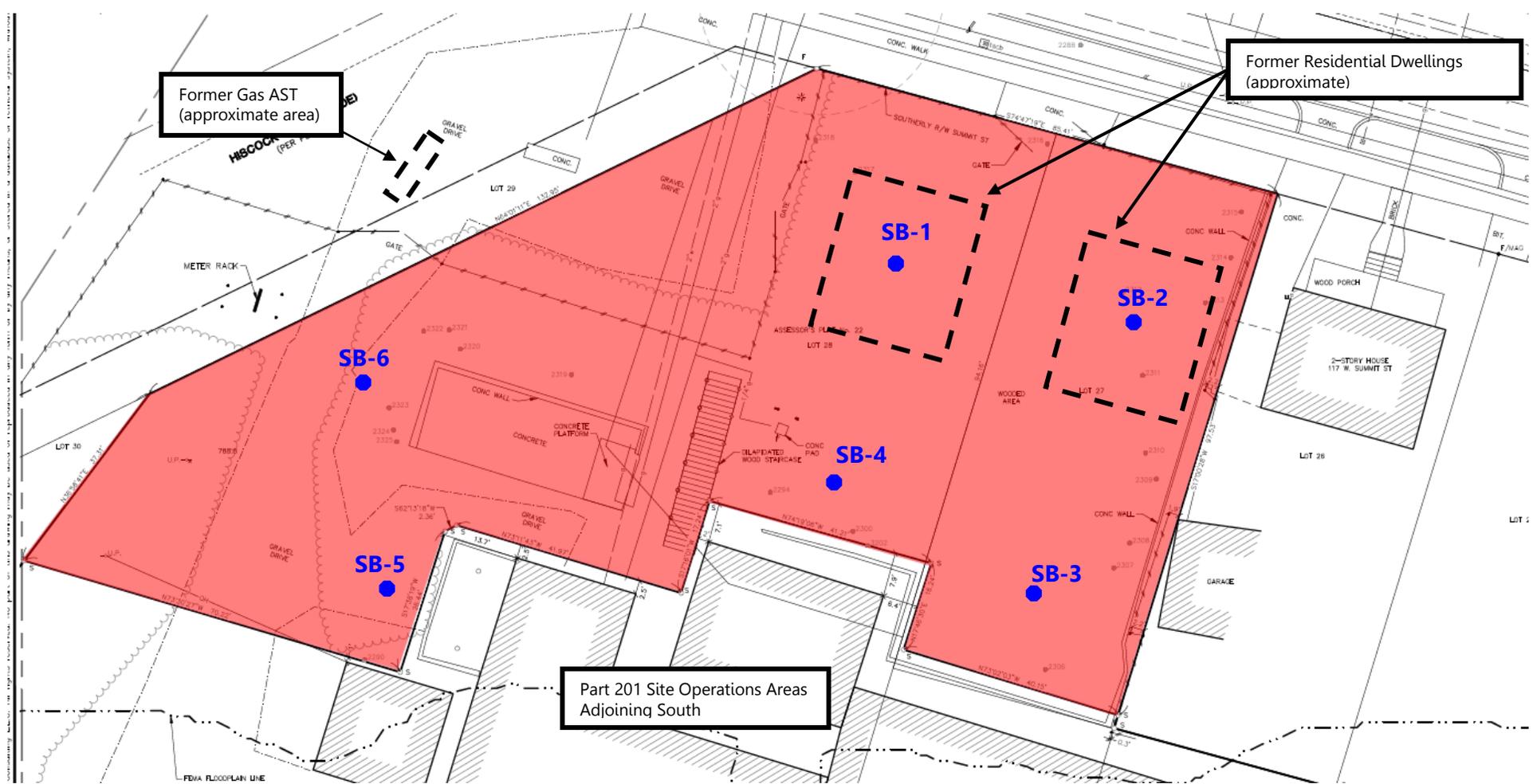
### Tables

- Table 1: Soil Analytical Results
- Table 2: Groundwater Analytical Results

### Appendices

- Appendix A: Soil Boring Logs
- Appendix B: Laboratory Analytical Reports

## Figures



**LEGEND**

- Soil boring/temporary monitoring well location
- Approximate area of subject property parcel



**Figure 2: Soil Boring Locations with Soil Analytical Results**

123 W. Summit  
 Ann Arbor, Michigan  
 ECS Project A121-0001-04

Source: Survey Map Prepared by Midwestern Consulting dated 02/2023





SB-6,12-17'  
 VOCs ND  
 PNAs ND  
**Arsenic 14 ppb**  
**Cadmium 7.5 ppb**  
**Lead 24 ppb**  
 Other MM <GRCC

SB-1, 12-17'  
 VOCs ND  
 PNAs Not Analyzed  
**Arsenic 2,600 ppb**  
**Barium 46,000 ppb**  
**Cadmium 840 ppb**  
**Chromium 5,300 ppb**  
**Copper 13,000 ppb**  
**Lead 170,000 ppb**  
**Mercury 340 ppb**  
**Selenium 160 ppb**  
**Silver 15 ppb**  
**Zinc 200,000 ppb**

SB-213-18'  
 VOCs Not Analyzed  
 PNAs ND  
 MM Not analyzed

SB-4,13-18'  
 Not Analyzed

SB-3 12-17'  
 VOCs ND  
**Benzo(a)anthracene 2.4 ppb**  
**Benzo(b)fluoranthene 3.2 ppb**  
 Benzo(a)pyrene 2.1 ppb  
**Chrysene 2.0 ppb**  
**Fluoranthene 5.6 ppb**  
 Naphthalene 1.8 ppb  
**Phenanthrene 5.1 ppb**  
 Pyrene 5.3 ppb  
 Other PNAs ND  
**Lead 34 ppb**  
 Other MM <GRCC

SB-5,7-12'  
 VOCs ND  
 PNAs ND  
**Arsenic 16 ppb**  
**Lead 15 ppb**  
 Other MM <GRCC

Part 201 Site Operations Areas  
 Adjoining South

**LEGEND**

● Soil boring/temporary monitoring well location with analytical results

█ Approximate area of subject property parcel

**Red Bold** notes concentrations exceed GRCC and/or VIAP Screening Levels

ND = Not Detected <GRCC = Less than Generic Residential Cleanup Criteria

**Figure 3: Temporary Well Locations with Groundwater Analytical Results**

123 W. Summit  
 Ann Arbor, Michigan  
 ECS Project A121-0001-04

Source: Survey Map Prepared by Midwestern Consulting dated 02/2023



## Tables

**TABLE 1  
SUMMARY OF DETECTED ANALYTE CONCENTRATIONS IN SOIL  
123 W. SUMMIT  
ANN ARBOR, MICHIGAN  
ECS PROJECT A121-0001-04**

Parameter*	Chemical Abstract Service Number	Statewide Default Background Level	EGLE Generic Part 201 Residential Cleanup Criteria and VIAP Screening Levels						Sample ID	SB-01	SB-01	SB-02	SB-03	SB-03	SB-04	SB-05	SB-06
			Drinking Water Protection	Groundwater Surface Water Interface Protection	Volatilization to Indoor Air	VIAP Screening Levels	Ambient Air Inhalation	Direct Contact	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	ug/Kg	
			Date	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	
			Depth	2-4'	10-12'	4-6'	4-6'	12-14'	12-14'	0-2'	6-8'						
<b>Metals</b>																	
Arsenic	7440382	5,800	4,600	4,600	NLV	NLV	720,000	7,600	8,300	8,300	14,000	10,000	12,000	56,000	16,000	9,000	
Barium	7440393	75,000	1,300,000	(G)	NLV	NLV	330,000,000	37,000,000	34,000	200,000	72,000	58,000	87,000	42,000	85,000	48,000	
Cadmium	7440439	1,200	6,000	160,000 (G,X)	NLV	NLV	1,700,000	550,000	340	880	630	360	1,200	430	320	440	
Chromium	16065831	18,000	1,000,000,000	270,000,000,000 (G,X)	NLV	NLV	330,000,000	790,000,000	16,000	6,800	11,000	9,200	8,300	9,500	10,000	11,000	
Copper	7440508	32,000	5,800,000	(G)	NLV	NLV	130,000,000	20,000,000	20,000	27,000	38,000	15,000	48,000	37,000	25,000	28,000	
Lead	7439921	21,000	700,000	33,000,000 (G,X)	NLV	NLV	100,000,000	400,000	17,000	430,000	94,000	37,000	58,000	460,000	24,000	31,000	
Mercury	Varies	130	1,700	50 (M); 1.2	48,000	22 (M)	20,000,000	160,000	ND	460	50	48	ND	37	55	ND	
Selenium	7782492	410	4,000	400	NLV	NLV	130,000,000	2,600,000	ND	990	250	ND	5,000	ND	ND	ND	
Silver	7440224	1,000	4,500	100 (M); 27	NLV	NLV	6,700,000	2,500,000	ND	140	ND	ND	ND	ND	ND	ND	
Zinc	7440666	47,000	2,400,000	(G)	NLV	NLV	ID	170,000,000	43,000	380,000	140,000	58,000	330,000	70,000	36,000	58,000	
<b>Polynuclear Aromatic Compounds (PNAs)</b>																	
Acenaphthene	83329	NA	300,000	8,700	190,000,000	200,000	14,000,000,000	41,000,000	ND	ND	ND	ND	ND	ND	ND	ND	
Acenaphthylene	208968	NA	5,900	ID	1,600,000	DATA	2,300,000,000	1,600,000	ND	ND	ND	1,600	ND	ND	560	ND	
Anthracene	120127	NA	41,000	ID	1,000,000,000 (D)	13,000,000	67,000,000,000	230,000,000	ND	ND	ND	2,500	ND	ND	830	ND	
Benzo(a)anthracene	56553	NA	NLL	NLL	NLV	160,000 (MM)	ID	20,000	240	290	1,000	6,200	ND	ND	3,700	ND	
Benzo(b)fluoranthene	205992	NA	NLL	NLL	ID	NA	ID	20,000	340	590	1,600	8,400	ND	ND	4,800	300	
Benzo(k)fluoranthene	207089	NA	NLL	NLL	NLV	NA	ID	200,000	ND	ND	730	3,700	ND	ND	2,100	ND	
Benzo(g,h,i)perylene	191242	NA	NLL	NLL	NLV	NLV	800,000,000	2,500,000	ND	ND	380	2,300	ND	ND	1,200	ND	
Benzo(a)pyrene	50328	NA	NLL	NLL	NLV	NA	1,500,000	2,000	230	410	1,100	6,200	ND	ND	3,200	ND	
Chrysene	218019	NA	NLL	NLL	ID	NA	ID	2,000,000	ND	ND	940	5,300	ND	ND	3,300	ND	
Dibenzo(a,h)anthracene	53703	NA	NLL	NLL	NLV	NA	ID	2,000	ND	ND	ND	700	ND	ND	410	ND	
Fluoranthene	206440	NA	730,000	5,500	1,000,000,000 (D)	NA	740,000,000	46,000,000	480	290	1,700	12,000	ND	ND	6,100	460	
Fluorene	86737	NA	390,000	5,300	580,000,000	470,000	9,300,000,000	27,000,000	ND	ND	620	27,000	ND	ND	240	ND	
Indeno(1,2,3-cd)pyrene	193395	NA	NLL	NLL	NLV	NA	ID	20,000	ND	ND	480	2,700	ND	ND	1,200	ND	
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,700	670,000,000	8,100,000	ND	ND	ND	250	ND	ND	300	ND	
Naphthalene	91203	NA	35,000	730	250,000	67 (M)	200,000,000	16,000,000	ND	ND	ND	ND	ND	ND	230	ND	
Phenanthrene	85018	NA	56,000	2,100	2,800,000	1,700	160,000	1,600,000	ND	ND	650	9,500	ND	ND	3,400	270	
Pyrene	129000	NA	480,000	ID	1,000,000,000 (D)	25,000,000	650,000,000	29,000,000	470	300	1,600	10,000	ND	ND	5,000	410	
<b>Volatile Organic Compounds (VOCs)</b>																	
Benzene	71432	NA	100	4,000 (X)	1,600	1.7 (M)	13,000	37,000,000	ND	ND	62	56	ND	ND	ND	ND	
Ethylbenzene	100414	NA	1,500	360	87,000	12 (M)	720,000	140,000	ND	ND	90	230	ND	ND	ND	ND	
Isopropylbenzene	98828	NA	91,000	3,200	390,000	3.8 (M)	1,700,000	390,000	ND	ND	74	49	ND	ND	ND	ND	
n-propylbenzene	103651	NA	1,600	ID	ID	1,800 (DD)	1,300,000,000	2,500,000	ND	ND	78	80	ND	ND	ND	ND	
Toluene	108883	NA	16,000	5,400	330,000	3,700	2,800,000	250,000	ND	ND	340	1,300	ND	140	ND	ND	
2-Methylnaphthalene	91576	NA	57,000	4,200	2,700,000	1,700	1,500,000	8,100,000	ND	ND	ND	550	ND	ND	ND	ND	
Naphthalene	91203	NA	35,000	730	250,000	67 (M)	300,000	16,000,000	ND	ND	ND	350	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	95636	NA	2,100	570	110,000	150 (JT)	21,000,000	110,000	ND	ND	270	410	ND	66	ND	ND	
1,3,5-Trimethylbenzene	108678	NA	1,800	1,100	94,000	100 (JT)	16,000,000	94,000	ND	ND	87	130	ND	ND	ND	ND	
1,2,3-Trimethylbenzene	526738	NA	NA	NA	NA	270 (JT)	NA	NA	ND	ND	260	150	ND	ND	ND	ND	
Xylenes	1330207	NA	5,600	980	150,000	280 (J)	150,000	150,000	ND	ND	1,000	2,700	ND	300	ND	ND	
Other VOCs	varies	NA	varies	varies	varies	varies	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND	

ND denotes Not Detected at or above Estimated Quantitation Limit  
 ID = Inadequate data  
 NLL = Not likely to volatilize  
 NA = Not Available or Not Applicable  
 NLV = Not likely to volatilize  
**Bolded Red** value denotes that compound was reported at a concentration above the Residential Cleanup Criteria and/or VIAP  
 G= Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.  
 X= The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.  
 D= Calculated criterion exceeds 100 percent; hence it is reduced to 100 percent or 1.0E+9 ppb.  
 DD = Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure.  
 J = Isomer-specific concentrations shall be added together for comparison to criteria.  
 JT = When multiple isomers are detected, the isomer-specific concentrations must be added together and compared to the most restrictive VIAP screening level of the detected isomers.  
 M = Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.  
 MM = Hazardous substance is a carcinogen with a mutagenic mode of action.

**TABLE 2**  
**SUMMARY OF DETECTED ANALYTE CONCENTRATIONS IN GROUNDWATER**  
**123 W. SUMMIT**  
**ANN ARBOR, MICHIGAN**  
**ECS PROJECT A121-0001-04**

Parameter*	Chemical Abstract Service Number	EGLE Generic Part 201 Residential Cleanup Criteria and VIAP Screening Levels				Sample ID	SB-01	SB-02	SB-03	SB-04	SB-05	SB-06
		Drinking Water Protection	Groundwater Surface Water Interface Protection	Volatilization to Indoor Air	VIAP Screening Levels (GW not in Contact, >10ft)	Units	ug/l	ug/l	ug/l	ug/l	ug/l	ug/l
						Date	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024	6/5/2024
						Depth	12-17'	13-18'	12-17'	13-18'	7-12'	12-17'
<b>Metals</b>												
Arsenic	7440382	<b>10(A)</b>	<b>10</b>	NLV	NLV		<b>2,600</b>	NA	ND	NA	<b>16</b>	<b>14</b>
Barium	7440393	<b>2,000 (A)</b>	(G)	NLV	NLV		<b>46,000</b>	NA	160	NA	190	250
Cadmium	7440439	<b>5.0 (A)</b>	(G,X)	NLV	NLV		<b>840</b>	NA	ND	NA	ND	<b>7.5</b>
Chromium	16065831	<b>100 (A)</b>	(G,X)	NLV	NLV		<b>5,300</b>	NA	4.7	NA	34	38
Copper	7440508	<b>1,000 (E)</b>	(G)	NLV	NLV		<b>13,000</b>	NA	18	NA	54	60
Lead	7439921	<b>4.0 (L)</b>	(G,X)	NLV	NLV		<b>170,000</b>	NA	<b>34</b>	NA	<b>15</b>	<b>24</b>
Mercury	Varies	<b>2.0 (A)</b>	<b>0.0013</b>	56	<b>2.5</b>		<b>34</b>	NA	ND	NA	ND	ND
Selenium	7782492	<b>50 (A)</b>	<b>5.0</b>	NLV	NLV		<b>160</b>	NA	ND	NA	ND	ND
Silver	7440224	34	<b>0.2 (M)</b>	NLV	NLV		<b>15</b>	NA	ND	NA	ND	ND
Zinc	7440666	<b>2,400</b>	(G)	NLV	NLV		<b>200,000</b>	NA	290	NA	140	170
<b>Polynuclear Aromatic Compounds (PNAs)</b>												
Benzo(a)anthracene	56553	<b>2.1</b>	ID	NLV	9.4 (S, MM)		NA	ND	<b>2.4</b>	NA	ND	ND
Benzo(b)fluoranthene	205992	<b>1.5 (S)</b>	ID	NLV	NA		NA	ND	<b>3.2</b>	NA	ND	ND
Benzo(a)pyrene	50328	5.0 (A)	ID	NLV	NA		NA	ND	2.1	NA	ND	ND
Chrysene	218019	<b>1.6 (S)</b>	ID	ID	NA		NA	ND	<b>2.0</b>	NA	ND	ND
Fluoranthene	206440	210 (S)	<b>1.6</b>	210 (S)	NA		NA	ND	<b>5.6</b>	NA	ND	ND
Naphthalene	91203	520	11	31,000 (S)	130		NA	ND	1.8	NA	ND	ND
Phenanthrene	85018	52	<b>2.0 (M)</b>	1,000 (S)	290		NA	ND	<b>5.1</b>	NA	ND	ND
Pyrene	129000	140 (S)	ID	140(S)	140 (S)		NA	ND	5.3	NA	ND	ND
Other PNAs	varies	varies	varies	varies	varies		NA	ND	ND	NA	ND	ND
<b>Volatile Organic Compounds (VOCs)</b>												
VOCs	varies	varies	varies	varies	varies		ND	NA	ND	NA	ND	ND

Notes:

ND denotes Not Detected at or above Estimated Quantitation Limit

ID = Inadequate data

NA = Not Available or Not Applicable

NLV = Not likely to volatilize

**Bolded Red** value denotes that compound was reported at a concentration above the Residential Cleanup Criteria and/or VIAP Screening Level

G= Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water.

X= The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source.

A = Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.

E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA).

L = Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules.

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

MM = Hazardous substance is a carcinogen with a mutagenic mode of action.

## **Appendix A**

### Soil Boring Logs

ECS Soil Boring Log						
ECS PROJECT	A121-0001-04	Soil Boring		SB-1	DATE	June 5, 2024
DEPTH IN FEET	20	MONITORING WELL		GROUNDWATER SB-1		
GEOLOGIST	Steve K.	SOIL SAMPLES SELECTED FOR ANALYSIS			SB-1 (2-4') and (10-12')	
Location	Northwest quadrant of fenced area	Client Name	AAHDC - Summit	Site Name & Address	Vacant Property, 123 W. Summit, Ann Arbor, MI	
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment
0	90	Brown	Dry	TOPSOIL, with sand and gravel, loose	0.0	No odor evident in any of the samples
		Brown	Dry	CLAY, with silt and gravel, stiff		
1		Tan	Dry	SAND, fine-grained, loose		
2		Dk Brown	Dry	CLAYEY SAND, with red brick, gravel, concrete, trace of coal and tile pieces, dense		
3					0.0	
4	90				0.0	
5						
6		Lt. Gray	Dry	CONCRETE, 3-inches thick		
7		Brown	Dry	SILTY CLAY, with gravel, trace of bottle glass, stiff		
8	50	Pinkish Br	Dry	SAND and GRAVEL (mostly non-native), with cinder and clay, lightweight compared to other soil, dense	0.0	Appears to be industrial origin
9		Black & White				
10					0.0	
11						
12	60	Brown	Dry	SAND, fine-grained, with silt and clay, dense	0.0	
13						
14		Tan	Dry	SAND, fine-grained, with silt and clay, dense	0.0	
15		Black	Moist	CLAYEY PEAT, with organics, soft		
16	50	Brown	Wet	SAND, fine-grained, with trace clay, loose	0.0	Groundwater slow to recover
17						
18					0.0	Insufficient volume to fill container for PNA analysis
19						
20				END OF BORING		
Drilling Company	Midwest Analytical Services		Screen Top	12 feet	Well Type	1" diameter PVC
Method	Geoprobe		Screen Bottom	17 feet	Backfill	Cuttings

ECS Soil Boring Log						
ECS PROJECT	A121-0001-04	Soil Boring		SB-2	DATE	June 5, 2024
DEPTH IN FEET	20	MONITORING WELL		GROUNDWATER SB-2		
GEOLOGIST	Steve K.	SOIL SAMPLE SELECTED FOR ANALYSIS			SB-2 (4-6')	
Location	Northeast quadrant of fenced area	Client Name	AAHDC - Summit	Site Name & Address	Vacant Property, 123 W. Summit, Ann Arbor, MI	
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment
0	80	Dk. Brown	Dry	GRAVEL and BROKEN ASPHALT SURFACE	0.0	No odor evident in any of the samples
1		Brown	Dry	SAND. with gravel, trace of brick, loose		
2					0.0	
3						
4		Tan	Dry	SILT, with trace of sand, dense		
5		80	Pinkish Br	Dry	SAND and GRAVEL (mostly non-native), with cinder and clay, trace of glass, lightweight compared to other soil, dense	
6	Black, and					
7	White					
8	Brown		Dry	CLAYEY SAND, with gravel, piece of concrete, dense	0.0	
9	70	Pinkish Br	Dry	SAND and GRAVEL (mostly non-native), with clay, lightweight compared to other soil, dense	0.0	Appears to be industrial origin
10		Black, and				
11		White				
12		Brown	Dry	CLAY, silty, with rounded gravel, trace of concrete. stiff	0.0	
13	90	Lt. Gray	Dry	CONCRETE, 5-inch layer	0.0	
14		Orange	Dry	BRICK, 4-inch layer		
15		Brown	Dry	CLAYEY SAND, dense		
16		Dk. Brown to Black	Damp	PEAT, with wood, trace of sand,	0.0	
17	60	Gray	Wet	CLAYEY SAND. dense	0.0	
18		Brown	Wet	SAND with gravel, dense	0.0	
19		Orange Br	Wet	SAND, with silt and clay, dense		
20						
				END OF BORING		
Drilling Company	Midwest Analytical Services		Screen Top	13 feet	Well Type	1" diameter PVC
Method	Geoprobe		Screen Bottom	18 feet	Backfill	Cuttings

ECS Soil Boring Log							
ECS PROJECT	A121-0001-04	Soil Boring		SB-3	DATE	June 5, 2024	
DEPTH IN FEET	20	MONITORING WELL		GROUNDWATER SB-3			
GEOLOGIST	Steve K.	SOIL SAMPLES SELECTED FOR ANALYSIS			SB- 3 (4-6') and (12-14')		
Location	Southeast quadrant of fenced area	Client Name	AAHDC - Summit	Site Name & Address	Vacant Property, 123 W. Summit, Ann Arbor, MI		
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment	
0	80	Brown	Dry	ASPHALT, broken surface	0.0	No odor evident in any of the samples	
		Brown	Dry	SAND, with gravel, asphalt pieces, loose			
1							
		Brown	Dry	PEA GRAVEL, with sand, loose	0.0		
2		Dk Brown	Dry	CLAY, silty, dense			
3		Brown	Dry	CLAYEY SAND, with silt, gravel, and brick pieces, dense			
4	80	Brown	Dry	SILTY CLAY, with sand and gravel, stiff	0.0	Appear to be industrial	
		Bl & Lt. Gr		SAND and GRAVEL (mostly non-native), ash, cinder, loose			
5			Brown	Dry	SILTY CLAY, with sand and gravel, stiff		
6			Brown	Dry	SANDY CLAY, with gravel, stiff		0.0
7							
8	80	Brown	Dry	SAND, fine-grained, with silt and gravel, trace of coal, concrete and brick, loose	0.0		
9					0.0		
10							
11							
12	70	Black & Lt Gray	Dry	SAND and GRAVEL (mostly non-native materials), with clay, lightweight, dense	0.0	Appears to be industrial origin	
13							
		Brown	Wet	CLAYEY SAND, with silt, dense	0.0		
14		Dk. Brown to Black	Damp	PEAT, with trace sand and silt			
15							
16	70	Brown	Dry	CLAY, with peat and silt, trace sand, soft	0.0	Groundwater slow to recover	
17							
18		Yellow Br	Wet	SAND, with large gravel, dense	0.0		
19		Brown	Wet	CLAY, with silt, dense			
20				END OF BORING			
Drilling Company	Midwest Analytical Services		Screen Top	12 feet	Well Type	1" diameter PVC	
Method	Geoprobe		Screen Bottom	17 feet	Backfill	Cuttings	

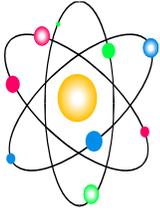
ECS Soil Boring Log						
ECS PROJECT	A121-0001-04	Soil Boring		SB-4	DATE	June 5, 2024
DEPTH IN FEET	20	MONITORING WELL		GROUNDWATER SB-4		
GEOLOGIST	Steve K.	SOIL SAMPLE SELECTED FOR ANALYSIS			SB-4 (12-14')	
Location	Southwest quadrant of fenced area	Client Name	AAHDC - Summit	Site Name & Address	Vacant Property, 123 W. Summit, Ann Arbor, MI	
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment
0	90	Brown	Dry	TOPSOIL, with sand and gravel, asphalt pieces, loose	0.0	No odor evident in any of the samples
1						
2		Tan	Dry	SAND, fine-grained, with gravel, trace of concrete and orange brick, loose		
3		Brown	Dry	SILTY CLAY, with gravel, trace of cinder, and concrete, fissile, stiff	0.0	
4	100	Brown	Dry	SILTY CLAY, with gravel, trace of cinder and concrete, fissile, stiff	0.0	
5						
6						
7						
8	80	Brown	Dry	SAND, fine-grained, with silt, loose	0.0	
9						
10				(1-inch-thick black coal layer)		
11				(1-inch-thick black coal layer)		
12	70	Brown	Dry	SAND and GRAVEL, with clay, cinder, concrete,	0.0	Appears to be industrial origin
13		Black, Gray & Lt. Gray	Dry	SAND and GRAVEL (non-native), with clay, coal, cinder, concrete, lightweight, loose		
14						
15		Dk. Brown to Black	Damp	PEAT, with wood		
16	70		Wet	SAND, fine-grained, with silt and gravel, loose	0.0	
17				Brown		
18		Brown	Wet	SAND, fine-to-medium grained, loose		
19						
20				END OF BORING		
Drilling Company	Midwest Analytical Services		Screen Top	13 feet	Well Type	1" diameter PVC
Method	Geoprobe		Screen Bottom	18 feet	Backfill	Cuttings

ECS Soil Boring Log						
<b>ECS PROJECT</b>	A121-0001-04	<b>Soil Boring</b>		<b>SB-5</b>	<b>DATE</b>	June 5, 2024
<b>DEPTH IN FEET</b>	12	<b>MONITORING WELL</b>		<b>GROUNDWATER SB-5</b>		
<b>GEOLOGIST</b>	Steve K.	<b>SOIL SAMPLE SELECTED FOR ANALYSIS</b>			SB-5 (0-2')	
<b>Location</b>	Downslope; western side of old building	<b>Client Name</b>	AAHDC - Summit	<b>Site Name &amp; Address</b>	Vacant Property, 123 W. Summit, Ann Arbor, MI	
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment
0	70	Dk Gray	Dry	BROKEN ASPHALT SURFACE	0.0	No odor evident in any of the samples
		Brown	Dry	CLAY, with silt and gravel, stiff		
1		Black	Dry	SAND, fine-grained, trace of cinder, loose		
2		Brown	Dry	SAND, with clay and gravel, dense	0.0	
3						
		Gray	Dry	SANDY CLAY, soft		
4	70	Gray		CLAYEY SAND, with gravel, stiff	0.0	
5						
6					0.0	
7						
8	60	Brown	Moist	SAND, with some clay, dense	0.0	
9						
10		Brown	Wet	SAND, with some clay, dense	0.0	
11						
12				END OF BORING		
13						
14						
15						
16						
17						
18						
19						
20						
<b>Drilling Company</b>	Midwest Analytical Services	<b>Screen Top</b>	7 feet	<b>Well Type</b>	1" diameter PVC	
<b>Method</b>	Geoprobe	<b>Screen Bottom</b>	12 feet	<b>Backfill</b>	Cuttings	

ECS Soil Boring Log						
ECS PROJECT	A121-0001-04	Soil Boring		SB-6	DATE	June 5, 2024
DEPTH IN FEET	20	MONITORING WELL		GROUNDWATER SB-6		
GEOLOGIST	Steve K.	SOIL SAMPLE SELECTED FOR ANALYSIS			SB-6 (6-8')	
Location	Along steep driveway on western parcel	Client Name	AAHDC - Summit	Site Name & Address	Vacant Property, 123 W. Summit, Ann Arbor, MI	
Depth	Recovery %	Color	Moist	Description	PID Reading	Comment
0	90	Brown	Dry	BROKEN ASPHALT SURFACE, topsoil	0.0	No odor evident in any of the samples
1		Brown	Dry	CLAYEY SAND, with gravel, stiff		
2		Brown	Dry	CLAYEY SAND, with gravel, and rust colored pellets, dense		
3	60	Brown	Dry	SANDY CLAY, fissile, stiff	0.0	
4		Brown	Dry	SANDY CLAY, with large broken pieces of gravel, stiff		
5		Brown	Dry	CLAYEY SAND, with gravel, stiff, crumbly		
6	50	Brown	Dry	CLAY, with silt and gravel, soft	0.0	
7		Brown	Dry	CLAY, with silt and gravel, soft		
8		Brown	Dry	CLAY, with silt and gravel, soft		
9	50	Orange Br	Dry	SAND, fine-grained, with silt and clay, loose	0.0	
10		Brown	Dry	SAND, fine-grained, with silt and clay, loose		
11		Brown	Dry	SILTY SAND, dense		
12	50	Brown	Dry	CLAYEY SAND, dense	0.0	
13		Brown	Dry	CLAYEY SAND, dense		
14		Brown	Wet	SAND, fine-grained, with trace of clay, dense		
15	60	Brown	Wet	SAND, fine-grained, with trace of clay, dense	0.0	
16		Brown	Wet	SAND, fine-medium grained, with small, rounded gravel, dense		
17		Brown	Wet	SAND, fine-medium grained, with small, rounded gravel, dense		
18	60	Tan	Wet	SAND, fine-grained, with silt, dense	0.0	
19		Tan	Wet	SAND, fine-grained, with silt, dense		
20		Tan	Wet	SAND, fine-grained, with silt, dense		
20				END OF BORING		
Drilling Company	Midwest Analytical Services		Screen Top	12 feet	Well Type	1" diameter PVC
Method	Geoprobe		Screen Bottom	17 feet	Backfill	Cuttings

## **Appendix B**

### Laboratory Analysis Results



## Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

**Date:** 24-Jun-24  
**Client:** Julie Pratt  
Environmental Consulting Solutions, LLC  
**Order ID:** 2406010  
**MAS Sample #:** 240606005 - 022  
**Project ID:** A121-0001-04  
**Sample I.D.:** Soil Sample SB-1 (2-4'); Soil Sample SB-1 (10-12'); Soil Sample SB-2 (4-6); Soil Sample SB-2 (8-10); Soil Sample SB-3 (4-6'); Soil Sample SB-3 (12-14'); Soil Sample SB-4 (0-2'); Soil Sample SB-4 (12-14'); Soil Sample SB-5 (0-2'); Soil Sample SB-5 (6-8); Soil Sample SB-6 (0-2'); Soil Sample SB-6 (6-8'); Groundwater SB-1; Groundwater SB-2; Groundwater SB-3; Groundwater SB-5; Groundwater SB-6

The above mentioned project has been completed in accordance with the Quality Manual written by Midwest Analytical Services, Inc., using 40 CFR part 136, SW-846, EGGLE, EPA and Standard Methods documents as reference guidelines. Specific sample information is available upon request. This test report applies only to the samples received as stated on the Chain of Custody (COC).

Test reports are not complete unless accompanied by the COC and this cover sheet. MAS is not responsible for interpretation of this test report. Please read the following numbered comments carefully, as they might apply to your report.

For your convenience the following legend applies to all the following data sheets:

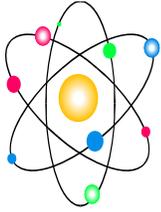
1. Reports shall not be reproduced, except in full, without written approval of MAS.
2. N/D=Not detected; i.e. Below Reporting Limit.
3. Results relate only to the items tested.
4. ppm=parts per million, mg/l, mg/kg or mg/kg(dry weight)  
ppb=parts per billion, ug/l, ug/kg or ug/kg (dry weight)
5. QC information is on file and can be provided if requested for a fee.
6. EQL=Estimated Quantitation Limit; i.e. Reporting Limit.
7. N/A=Not Applicable, Not Available.
8. Materials listed on the COC were analyzed as requested. See COC for details.
9. Data along with qualifiers make this a useable data set.

Additional comments and explanations:

EXP- Expired preservative used during sample collection  
MSH- High recovery for MS/MSD  
MSL- Low recovery for MS/MSD  
PH- pH of sample analyzed does not match method  
SL- Surrogate spike indicates low recovery

If you have any questions regarding this project feel free to contact me at (248) 591-6660 ext. 112 or (888) 801-4627 ext. 112. Thank you for choosing Midwest Analytical Services.

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

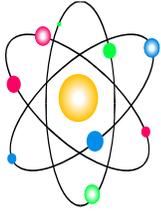
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606005  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (2-4')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:10  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	8300	µg/Kg Dry	136	MV		6/12/2024	
SW 846 6010B	Barium	34000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 6010B	Cadmium	340	µg/Kg Dry	54	MV		6/12/2024	
SW 846 6010B	Chromium	16000	µg/Kg Dry	109	MV		6/12/2024	
SW 846 6010B	Copper	20000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 6010B	Lead	17000	µg/Kg Dry	136	MV		6/12/2024	
SW 846 7471A	Mercury	N/D	µg/Kg Dry	22	MV		6/12/2024	MSH
SW 846 6010B	Selenium	N/D	µg/Kg Dry	136	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	54	MV		6/12/2024	
SW 846 6010B	Zinc	43000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/18/2024	MSL
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Benzo(a)anthracene	240	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Benzo(b)fluoranthene	340	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Benzo [a]pyrene	230	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Chrysene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Fluoranthene	480	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Phenanthrene	N/D	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8270C	Pyrene	470	µg/Kg Dry	217	DB		6/18/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	416	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

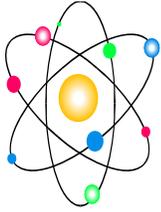
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606005  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (2-4')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:10  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	208	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

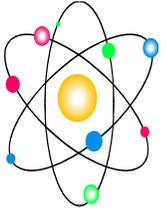
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606005  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (2-4')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:10  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Toluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	208	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	42	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

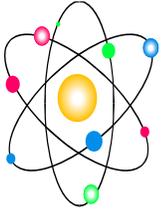
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606005  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (2-4')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:10  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	m,p-xylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	o-Xylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/Kg Dry	125	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

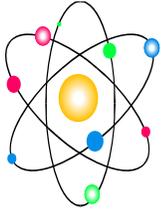
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606006  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (10-12')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:13  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	8300	µg/Kg Dry	176	MV		6/12/2024	
SW 846 6010B	Barium	200000	µg/Kg Dry	352	MV		6/12/2024	
SW 846 6010B	Cadmium	880	µg/Kg Dry	70	MV		6/12/2024	
SW 846 6010B	Chromium	6800	µg/Kg Dry	141	MV		6/12/2024	
SW 846 6010B	Copper	27000	µg/Kg Dry	352	MV		6/12/2024	
SW 846 6010B	Lead	430000	µg/Kg Dry	176	MV		6/12/2024	
SW 846 7471A	Mercury	460	µg/Kg Dry	28	MV		6/12/2024	
SW 846 6010B	Selenium	990	µg/Kg Dry	176	MV		6/12/2024	
SW 846 6010B	Silver	140	µg/Kg Dry	70	MV		6/12/2024	
SW 846 6010B	Zinc	380000	µg/Kg Dry	352	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/18/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Benzo(a)anthracene	290	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Benzo(b)fluoranthene	590	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Benzo [a]pyrene	410	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Chrysene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Fluoranthene	290	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Phenanthrene	N/D	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8270C	Pyrene	300	µg/Kg Dry	282	DB		6/18/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	559	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

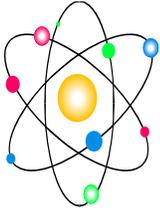
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606006  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (10-12')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:13  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	279	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

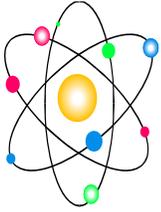
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606006  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (10-12')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:13  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Toluene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	279	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	559	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	56	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

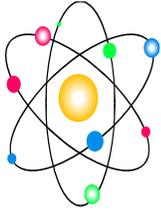
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606006  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-1 (10-12')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:13  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	m,p-xylene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	o-Xylene	N/D	µg/Kg Dry	56	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/Kg Dry	168	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

"Where industry comes for answers."

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

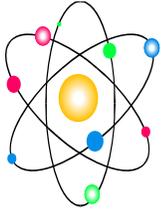
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606007  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-2 (4-6)  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:59  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	14000	µg/Kg Dry	149	MV		6/12/2024	
SW 846 6010B	Barium	72000	µg/Kg Dry	298	MV		6/12/2024	
SW 846 6010B	Cadmium	630	µg/Kg Dry	60	MV		6/12/2024	
SW 846 6010B	Chromium	11000	µg/Kg Dry	119	MV		6/12/2024	
SW 846 6010B	Copper	38000	µg/Kg Dry	298	MV		6/12/2024	
SW 846 6010B	Lead	94000	µg/Kg Dry	149	MV		6/12/2024	
SW 846 7471A	Mercury	50	µg/Kg Dry	24	MV		6/12/2024	
SW 846 6010B	Selenium	250	µg/Kg Dry	149	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	60	MV		6/12/2024	
SW 846 6010B	Zinc	140000	µg/Kg Dry	298	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/18/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Benzo(a)anthracene	1000	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Benzo(b)fluoranthene	1600	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Benzo(k)fluoranthene	730	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Benzo(g,h,i)perylene	380	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Benzo [a]pyrene	1100	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Chrysene	940	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Fluoranthene	1700	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	480	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Phenanthrene	650	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8270C	Pyrene	1600	µg/Kg Dry	238	DB		6/18/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	EXP
SW 846 8260B	Acetone	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	518	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

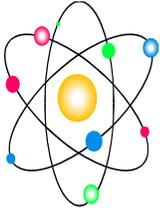
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606007  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-2 (4-6)  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:59  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	259	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	Benzene	62	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	90	µg/Kg Dry	52	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

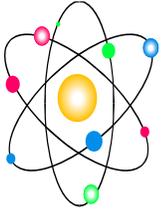
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606007  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-2 (4-6)  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:59  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	74	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Toluene	340	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	270	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	259	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	518	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	78	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	52	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

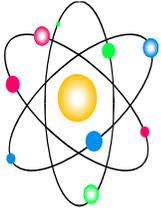
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606007  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-2 (4-6)  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 10:59  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	87	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	260	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	m,p-xylene	560	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	o-Xylene	380	µg/Kg Dry	52	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	1000	µg/Kg Dry	155	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

"Where industry comes for answers."

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

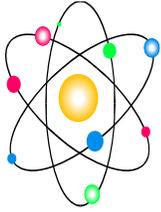
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606009  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (4-6")  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	10000	µg/Kg Dry	139	MV		6/12/2024	
SW 846 6010B	Barium	58000	µg/Kg Dry	278	MV		6/12/2024	
SW 846 6010B	Cadmium	360	µg/Kg Dry	56	MV		6/12/2024	
SW 846 6010B	Chromium	9200	µg/Kg Dry	111	MV		6/12/2024	
SW 846 6010B	Copper	15000	µg/Kg Dry	278	MV		6/12/2024	
SW 846 6010B	Lead	37000	µg/Kg Dry	139	MV		6/12/2024	
SW 846 7471A	Mercury	48	µg/Kg Dry	22	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/Kg Dry	139	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	56	MV		6/12/2024	
SW 846 6010B	Zinc	58000	µg/Kg Dry	278	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/18/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Acenaphthylene	1600	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Anthracene	2500	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Benzo(a)anthracene	6200	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Benzo(b)fluoranthene	8400	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Benzo(k)fluoranthene	3700	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Benzo(g,h,i)perylene	2300	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Benzo [a]pyrene	6200	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Chrysene	5300	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Dibenz(a,h)anthracene	700	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Fluoranthene	12000	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Fluorene	620	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	2700	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	2-Methylnaphthalene	250	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Phenanthrene	9500	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8270C	Pyrene	10000	µg/Kg Dry	222	DB		6/18/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	426	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

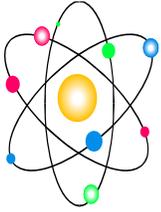
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606009  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (4-6")  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	213	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	Benzene	56	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	230	µg/Kg Dry	43	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

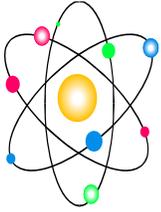
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606009  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (4-6")  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	49	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	550	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Naphthalene	350	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Toluene	1300	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	410	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	213	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	426	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	80	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	43	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

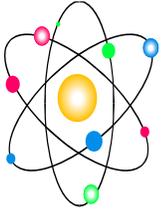
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606009  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (4-6")  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	130	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	150	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	m,p-xylene	1900	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	o-Xylene	740	µg/Kg Dry	43	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	2700	µg/Kg Dry	128	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

"Where industry comes for answers."

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

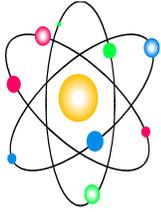
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606010  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:35  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	12000	µg/Kg Dry	169	MV		6/12/2024	
SW 846 6010B	Barium	87000	µg/Kg Dry	338	MV		6/12/2024	
SW 846 6010B	Cadmium	1200	µg/Kg Dry	68	MV		6/12/2024	
SW 846 6010B	Chromium	8300	µg/Kg Dry	135	MV		6/12/2024	
SW 846 6010B	Copper	48000	µg/Kg Dry	338	MV		6/12/2024	
SW 846 6010B	Lead	58000	µg/Kg Dry	169	MV		6/12/2024	
SW 846 7471A	Mercury	N/D	µg/Kg Dry	27	MV		6/12/2024	
SW 846 6010B	Selenium	5000	µg/Kg Dry	169	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	68	MV		6/12/2024	
SW 846 6010B	Zinc	330000	µg/Kg Dry	338	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/18/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Benzo(b)fluoranthene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Chrysene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Fluoranthene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Phenanthrene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8270C	Pyrene	N/D	µg/Kg Dry	270	DB		6/18/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	535	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

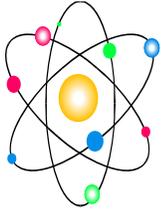
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606010  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:35  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	268	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

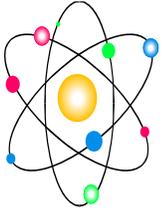
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606010  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:35  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Toluene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	268	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	535	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	54	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

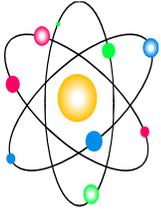
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606010  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-3 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 12:35  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	m,p-xylene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	o-Xylene	N/D	µg/Kg Dry	54	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/Kg Dry	161	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

"Where industry comes for answers."

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

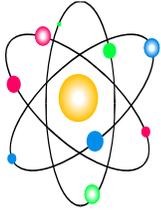
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606012  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-4 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 14:15  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	56000	µg/Kg Dry	162	MV		6/12/2024	
SW 846 6010B	Barium	42000	µg/Kg Dry	325	MV		6/12/2024	
SW 846 6010B	Cadmium	430	µg/Kg Dry	65	MV		6/12/2024	
SW 846 6010B	Chromium	9500	µg/Kg Dry	130	MV		6/12/2024	
SW 846 6010B	Copper	37000	µg/Kg Dry	325	MV		6/12/2024	
SW 846 6010B	Lead	460000	µg/Kg Dry	162	MV		6/12/2024	
SW 846 7471A	Mercury	37	µg/Kg Dry	26	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/Kg Dry	162	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	65	MV		6/12/2024	
SW 846 6010B	Zinc	70000	µg/Kg Dry	325	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/19/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Benzo(b)fluoranthene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Chrysene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Fluoranthene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Phenanthrene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8270C	Pyrene	N/D	µg/Kg Dry	260	DB		6/19/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	489	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

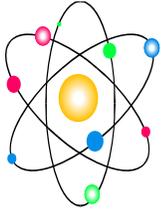
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606012  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-4 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 14:15  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	244	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

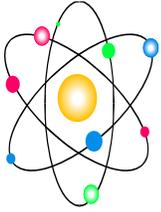
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606012  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-4 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 14:15  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Toluene	140	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	66	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	244	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	489	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	49	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

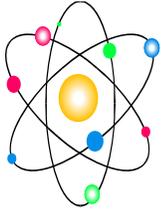
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606012  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-4 (12-14')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 14:15  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	m,p-xylene	200	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	o-Xylene	97	µg/Kg Dry	49	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	300	µg/Kg Dry	147	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

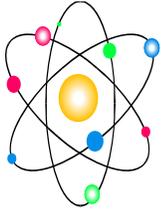
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606013  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-5 (0-2')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 16:29  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	16000	µg/Kg Dry	136	MV		6/12/2024	
SW 846 6010B	Barium	85000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 6010B	Cadmium	320	µg/Kg Dry	54	MV		6/12/2024	
SW 846 6010B	Chromium	10000	µg/Kg Dry	109	MV		6/12/2024	
SW 846 6010B	Copper	25000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 6010B	Lead	24000	µg/Kg Dry	136	MV		6/12/2024	
SW 846 7471A	Mercury	55	µg/Kg Dry	22	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/Kg Dry	136	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	54	MV		6/12/2024	
SW 846 6010B	Zinc	36000	µg/Kg Dry	272	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/19/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Acenaphthylene	560	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Anthracene	830	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Benzo(a)anthracene	3700	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Benzo(b)fluoranthene	4800	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Benzo(k)fluoranthene	2100	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Benzo(g,h,i)perylene	1200	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Benzo [a]pyrene	3200	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Chrysene	3300	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Dibenz(a,h)anthracene	410	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Fluoranthene	6100	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Fluorene	240	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	1200	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	2-Methylnaphthalene	300	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Naphthalene	230	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Phenanthrene	3400	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8270C	Pyrene	5000	µg/Kg Dry	217	DB		6/19/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	416	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

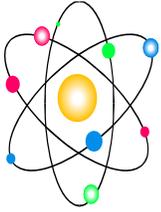
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606013  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-5 (0-2')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 16:29  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	208	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

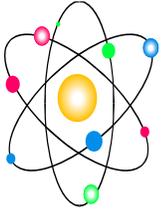
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606013  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-5 (0-2')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 16:29  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Toluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	208	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	416	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	42	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

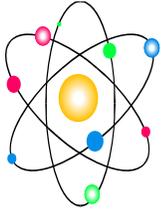
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606013  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-5 (0-2')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 16:29  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	m,p-xylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	o-Xylene	N/D	µg/Kg Dry	42	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/Kg Dry	125	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

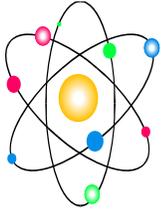
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606016  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-6 (6-8')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 17:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/11/2024		
SW 846 6010B	Arsenic	9000	µg/Kg Dry	137	MV		6/12/2024	
SW 846 6010B	Barium	48000	µg/Kg Dry	275	MV		6/12/2024	
SW 846 6010B	Cadmium	440	µg/Kg Dry	55	MV		6/12/2024	
SW 846 6010B	Chromium	11000	µg/Kg Dry	110	MV		6/12/2024	
SW 846 6010B	Copper	28000	µg/Kg Dry	275	MV		6/12/2024	
SW 846 6010B	Lead	31000	µg/Kg Dry	137	MV		6/12/2024	
SW 846 7471A	Mercury	N/D	µg/Kg Dry	22	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/Kg Dry	137	MV		6/12/2024	
SW 846 6010B	Silver	N/D	µg/Kg Dry	55	MV		6/12/2024	
SW 846 6010B	Zinc	58000	µg/Kg Dry	275	MV		6/12/2024	
SW 846 8270C	PNA				DB	6/18/2024	6/19/2024	
SW 846 8270C	Acenaphthene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Anthracene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Benzo(b)fluoranthene	300	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Chrysene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Dibenz(a,h)anthracene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Fluoranthene	460	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Fluorene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Naphthalene	N/D	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Phenanthrene	270	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8270C	Pyrene	410	µg/Kg Dry	220	DB		6/19/2024	
SW 846 8260B	Volatile Organic Compounds:				DB	6/18/2024	6/18/2024	
SW 846 8260B	Acetone	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	Acetonitrile	N/D	µg/Kg Dry	412	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

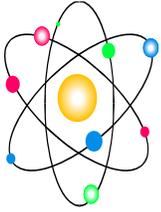
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606016  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-6 (6-8')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 17:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/Kg Dry	206	DB		6/18/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	Benzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Bromobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Bromoform	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Bromomethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Chloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Chloroform	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Chloromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	o-Chlorotoluene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Cis-1,2-dichloroethylene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Dibromomethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1-Dichloroethylene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

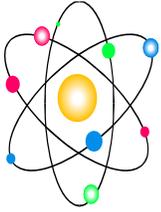
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606016  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-6 (6-8')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 17:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	2-Hexanone	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	Trans-1,2-dichloroethylene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Naphthalene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Iodomethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Styrene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Toluene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/Kg Dry	206	DB		6/18/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/Kg Dry	412	DB		6/18/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Trichloroethene	N/D	µg/Kg Dry	41	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

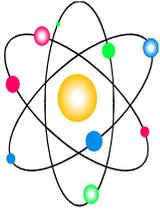
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606016  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Soil Sample SB-6 (6-8')  
**Physical Description:** Soil  
**Sample Date/Time:** 6/5/2024 17:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	m,p-xylene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	o-Xylene	N/D	µg/Kg Dry	41	DB		6/18/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/Kg Dry	124	DB		6/18/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

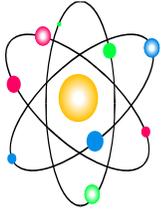
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606017  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-1  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 11:09  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/06/2024		PH
SW 846 6010B	Arsenic	2600	µg/L	21	MV		6/10/2024	
SW 846 6010B	Barium	46000	µg/L	50	MV		6/10/2024	
SW 846 6010B	Cadmium	840	µg/L	10	MV		6/10/2024	
SW 846 6010B	Chromium	5300	µg/L	20	MV		6/10/2024	
SW 846 6010B	Copper	13000	µg/L	50	MV		6/10/2024	
SW 846 6010B	Lead	170000	µg/L	15	MV		6/10/2024	
SW 846 7470A	Mercury	34	µg/L	2.0	MV		6/12/2024	
SW 846 6010B	Selenium	160	µg/L	15	MV		6/10/2024	
SW 846 6010B	Silver	15	µg/L	7.5	MV		6/10/2024	
SW 846 6010B	Zinc	200000	µg/L	20	MV		6/10/2024	
SW 846 8260B	Volatile Organic Compounds:				DB		6/13/2024	SL
SW 846 8260B	Acetone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acetonitrile	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acrolein	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromoform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Iodomethane	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

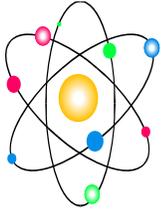
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606017  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-1  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 11:09  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Chloroform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Cis-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trans-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Naphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Hexanone	N/D	µg/L	10	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

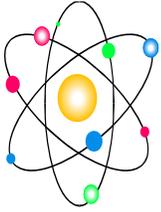
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606017  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-1  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 11:09  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Styrene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Toluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	m,p-xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	o-Xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/L	3.0	DB		6/13/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

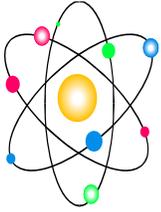
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606018  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-2  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 11:30  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8270C	Polynuclear Aromatic Hydrocarbons:				DB	6/11/2024	6/14/2024	
SW 846 8270C	Acenaphthene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Anthracene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Benzo(b)fluoranthene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Chrysene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Dibenzo(a,h)anthracene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Fluoranthene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Fluorene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Naphthalene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Phenanthrene	N/D	µg/L	1.3	DB		6/14/2024	
SW 846 8270C	Pyrene	N/D	µg/L	1.3	DB		6/14/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

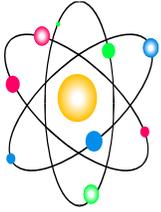
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606019  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-3  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 13:40  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/06/2024		
SW 846 6010B	Arsenic	N/D	µg/L	4.1	MV		6/10/2024	
SW 846 6010B	Barium	160	µg/L	10	MV		6/10/2024	
SW 846 6010B	Cadmium	N/D	µg/L	2.0	MV		6/10/2024	
SW 846 6010B	Chromium	4.7	µg/L	4.0	MV		6/10/2024	
SW 846 6010B	Copper	18	µg/L	10	MV		6/10/2024	
SW 846 6010B	Lead	34	µg/L	3.0	MV		6/10/2024	
SW 846 7470A	Mercury	N/D	µg/L	0.20	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/L	3.0	MV		6/10/2024	
SW 846 6010B	Silver	N/D	µg/L	1.5	MV		6/10/2024	
SW 846 6010B	Zinc	290	µg/L	4.0	MV		6/10/2024	
SW 846 8270C	Polynuclear Aromatic Hydrocarbons:				DB	6/11/2024	6/14/2024	
SW 846 8270C	Acenaphthene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Anthracene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Benzo(a)anthracene	2.4	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Benzo(b)fluoranthene	3.2	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Benzo [a]pyrene	2.1	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Chrysene	2.0	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Dibenzo(a,h)anthracene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Fluoranthene	5.6	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Fluorene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Naphthalene	1.8	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Phenanthrene	5.1	µg/L	1.6	DB		6/14/2024	
SW 846 8270C	Pyrene	5.3	µg/L	1.6	DB		6/14/2024	
SW 846 8260B	Volatile Organic Compounds:				DB		6/13/2024	SL
SW 846 8260B	Acetone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acetonitrile	N/D	µg/L	10	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

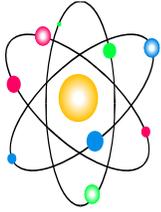
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606019  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-3  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 13:40  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromoform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Iodomethane	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloroform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

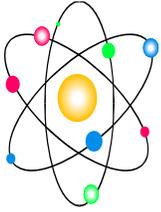
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606019  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-3  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 13:40  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Cis-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trans-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Naphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Hexanone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Styrene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Toluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

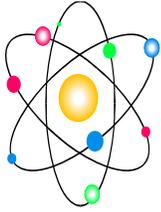
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606019  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-3  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 13:40  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	m,p-xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	o-Xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/L	3.0	DB		6/13/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

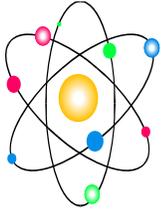
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606021  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-5  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 16:25  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/06/2024		
SW 846 6010B	Arsenic	16	µg/L	4.1	MV		6/10/2024	
SW 846 6010B	Barium	190	µg/L	10	MV		6/10/2024	
SW 846 6010B	Cadmium	N/D	µg/L	2.0	MV		6/10/2024	
SW 846 6010B	Chromium	34	µg/L	4.0	MV		6/10/2024	
SW 846 6010B	Copper	54	µg/L	10	MV		6/10/2024	
SW 846 6010B	Lead	15	µg/L	3.0	MV		6/10/2024	
SW 846 7470A	Mercury	N/D	µg/L	0.20	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/L	3.0	MV		6/10/2024	
SW 846 6010B	Silver	N/D	µg/L	1.5	MV		6/10/2024	
SW 846 6010B	Zinc	140	µg/L	4.0	MV		6/10/2024	
SW 846 8270C	Polynuclear Aromatic Hydrocarbons:				DB	6/11/2024	6/15/2024	
SW 846 8270C	Acenaphthene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Anthracene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Benzo(b)fluoranthene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Chrysene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Dibenzo(a,h)anthracene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Fluoranthene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Fluorene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Naphthalene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Phenanthrene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8270C	Pyrene	N/D	µg/L	1.2	DB		6/15/2024	
SW 846 8260B	Volatile Organic Compounds:				DB		6/13/2024	SL
SW 846 8260B	Acetone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acetonitrile	N/D	µg/L	10	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

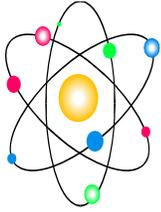
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606021  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-5  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 16:25  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromoform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Bromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Iodomethane	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloroform	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Chloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dibromomethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

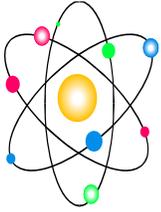
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606021  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-5  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 16:25  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2-Dichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Cis-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trans-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1-Dichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Naphthalene	N/D	µg/L	5.0	DB		6/13/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2-Hexanone	N/D	µg/L	10	DB		6/13/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Styrene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Toluene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichloroethene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

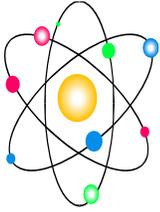
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606021  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-5  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 16:25  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	m,p-xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	o-Xylene	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/L	3.0	DB		6/13/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/L	1.0	DB		6/13/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/L	1.0	DB		6/13/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

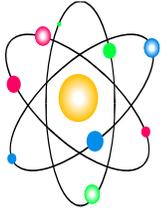
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606022  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-6  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 17:33  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
	Total Metals:					06/06/2024		
SW 846 6010B	Arsenic	14	µg/L	4.1	MV		6/10/2024	
SW 846 6010B	Barium	250	µg/L	10	MV		6/10/2024	
SW 846 6010B	Cadmium	7.5	µg/L	2.0	MV		6/10/2024	
SW 846 6010B	Chromium	38	µg/L	4.0	MV		6/10/2024	
SW 846 6010B	Copper	60	µg/L	10	MV		6/10/2024	
SW 846 6010B	Lead	24	µg/L	3.0	MV		6/10/2024	
SW 846 7470A	Mercury	N/D	µg/L	0.20	MV		6/12/2024	
SW 846 6010B	Selenium	N/D	µg/L	3.0	MV		6/10/2024	
SW 846 6010B	Silver	N/D	µg/L	1.5	MV		6/10/2024	
SW 846 6010B	Zinc	170	µg/L	4.0	MV		6/10/2024	
SW 846 8270C	Polynuclear Aromatic Hydrocarbons:				DB	6/11/2024	6/15/2024	
SW 846 8270C	Acenaphthene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Acenaphthylene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Anthracene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Benzo(a)anthracene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Benzo(b)fluoranthene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Benzo(k)fluoranthene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Benzo(g,h,i)perylene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Benzo [a]pyrene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Chrysene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Dibenzo(a,h)anthracene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Fluoranthene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Fluorene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Indeno(1,2,3-cd)pyrene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	2-Methylnaphthalene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Naphthalene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Phenanthrene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8270C	Pyrene	N/D	µg/L	1.3	DB		6/15/2024	
SW 846 8260B	Volatile Organic Compounds:				DB		6/14/2024	SL
SW 846 8260B	Acetone	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Acetonitrile	N/D	µg/L	10	DB		6/14/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

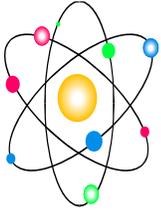
## Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606022  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-6  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 17:33  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	Acrolein	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Acrylonitrile	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Benzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Bromobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Bromochloromethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Bromodichloromethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Bromoform	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Bromomethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Methyl Ethyl Ketone	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	N-butylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Sec-butylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Tert-butylbenzene	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Carbon Disulfide	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Carbon Tetrachloride	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Chlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Chloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Iodomethane	N/D	µg/L	5.0	DB		6/14/2024	
SW 846 8260B	2-Chloroethyl Vinyl Ether	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Chloroform	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Chloromethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	2-Chlorotoluene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	4-Chlorotoluene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	4-Isopropyltoluene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Isopropylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2-Dibromo-3-chloropropane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Dibromochloromethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Dibromomethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2-Dichlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,3-Dichlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,4-Dichlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Dichlorodifluoromethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1-Dichloroethane	N/D	µg/L	1.0	DB		6/14/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

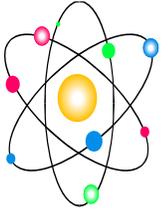
### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606022  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-6  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 17:33  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2-Dichloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1-Dichloropropene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Cis-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Trans-1,2-dichloroethene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2-Dichloropropane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,3-Dichloropropane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	2,2-Dichloropropane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1-Dichloroethene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	2-Methylnaphthalene	N/D	µg/L	5.0	DB		6/14/2024	
SW 846 8260B	Cis-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Naphthalene	N/D	µg/L	5.0	DB		6/14/2024	
SW 846 8260B	Trans-1,3-dichloropropene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2-Dibromoethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Ethylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Methyl T-Butyl Ether	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Methylene Chloride	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	n-Propyl Benzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	2-Hexanone	N/D	µg/L	10	DB		6/14/2024	
SW 846 8260B	Methyl Isobutyl Ketone	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Styrene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2,3- Trimethylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	2,2,4-Trimethylpentane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1,1,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1,2,2-Tetrachloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Tetrachloroethene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Toluene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2,3-Trichlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2,4-Trichlorobenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1,1-Trichloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1,2-Trichloroethane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Trichloroethene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Trichlorofluoromethane	N/D	µg/L	1.0	DB		6/14/2024	

Kevin O'Mara  
Laboratory Director



# Midwest Analytical Services, Inc.

*"Where industry comes for answers."*

2905 Hilton Rd  
Ferndale, MI 48220

All test reports include a chain of custody and a cover sheet.

**Phone:** (248) 591-6660  
**MI Only:** (888) 801-4MAS  
**Fax No:** (248) 591-6668

Environmental Consulting Solutions, LLC  
523 W. Sunnybrook Drive  
Royal Oak, MI 48073

### Test Report

**Order ID:** 2406010  
**MAS Sample #:** 240606022  
**Date Completed:** 6/24/2024

**Project ID:** A121-0001-04  
**Sample Identification:** Groundwater SB-6  
**Physical Description:** Ground Water  
**Sample Date/Time:** 6/5/2024 17:33  
**Sample Collected By:** Steve Kulpanowski

Method Number	Parameter	Result	Units	EQL	Analy	Date Prepped	Date Analyzed	Data Flag
SW 846 8260B	1,2,3-Trichloropropane	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,2,4-Trimethylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,3,5-Trimethylbenzene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Vinyl Acetate	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Vinyl Chloride	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	m,p-xylene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	o-Xylene	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	Xylene (Total)	N/D	µg/L	3.0	DB		6/14/2024	
SW 846 8260B	Diethyl Ether	N/D	µg/L	1.0	DB		6/14/2024	
SW 846 8260B	1,1,2-Trichloro-1,2,2-trifluoroethane	N/D	µg/L	1.0	DB		6/14/2024	

Kevin O'Mara  
Laboratory Director



Midwest Analytical Services, Inc.  
 2905 Hilton Road • Ferndale, MI 48220  
 Phone: (248) 591-6660 • Fax: (248) 591-6668  
 Email: info@e4mas.com • Website: www.e4mas.com  
 A2LA #0381.01

## Chain of Custody Record & Sample Analysis Requests

COC NO: 42463

Order ID: 2406010

<b>REPORT TO:</b> Company Name: <u>ECS</u> Contact: <u>JULIE PRATT</u> Address: <u>523 W. SUNNYSIDE BROOK</u> City, State, Zip: <u>ROYAL OAK, MI</u> Phone: <u>(586) 424-7355</u> Fax: _____ Report To Email: <u>jpratt@environmentalconsulting.com</u>	<b>BILL TO:</b> Same as Report <input checked="" type="checkbox"/> Company Name: <u>ECS</u> Contact: <u>ANDY FORLG</u> Address: _____ City, State, Zip: _____ Quote #: <u>4387</u> PO #: _____ Project/Job #: <u>A121-0001-04</u> Bill To Email: _____	ANALYSIS METHOD: <u>VOCS</u> ANALYSIS METHOD: <u>PNA</u> ANALYSIS METHOD: <u>10 MI METALS</u> ANALYSIS METHOD: _____ ANALYSIS METHOD: _____ ANALYSIS METHOD: _____ ANALYSIS METHOD: <u>HOLD</u>	DL: _____ DL: _____ DL: _____ DL: _____ DL: _____ DL: _____	<b>QC LEVEL:</b> Page <u>1</u> of <u>2</u> I II III Normal <input checked="" type="checkbox"/> Rush _____ Needed By _____ <b>CONTAINER LEGEND</b> <b>TYPE:</b> P = Plastic G = Glass M = Metal <b>PRESERVATIVE:</b> 1 = Non Preserved 2 = HCl 3 = HNO <sub>3</sub> 4 = NaOH 5 = Hexane 6 = H <sub>2</sub> SO <sub>4</sub> 7 = Methanol 8 = Na Thiosulfate 9 = Trizma
--	---	---	--	--

ITEM	SAMPLE ID	FIELD INFO		TIME ZONE: E C M P		MATRIX	ANALYSIS METHOD	CONTAINERS			LAB USE ONLY						
		Hot? / PID	Date	Time	Type								Size	Preservative	MAS#		
	SOIL SAMPLE SB-1 (2-4')		6-5-24	10:10	SOIL								X	GG	40ml/8oz	7, 1	240606005
	" SB-1 (10-12')		"	10:13	"								X	"	"	"	240606006
	" SB-2 (4-6')		"	10:59	"								X	"	"	"	240606007
	" SB-2 (8-10')		"	11:05	"								X	"	"	"	240606008
	" SB-3 (4-6')		"	12:30	"								X	"	"	"	240606009
	" SB-3 (12-14')		"	12:35	"								X	"	"	"	240606010
	" SB-4 (0-2')		"	2:10	"								X	"	"	"	240606011
	" SB-4 (12-14')		"	2:15	"								X	"	"	"	240606012
	" SB-5 (0-2')		"	4:29	"								X	"	"	"	240606013
	SOIL SAMPLE SB-5 (6-8')		6-5-24	4:33	SOIL								X	GG	40ml/8oz	7, 1	240606014

Matrix type options: waste water(WW), ground water(GW), drinking water(DW), soil(SO), solid(SW), liquid(LW), air(AI), wipe(WI).

All fields must be filled in; see back of COC for instructions. Level II or III QA/QC reports incur additional cost.

Sampled By: (Signature) <u>[Signature]</u> Print Name: <u>STEVE KUIPANO</u> Date: <u>6-5-24</u>				<b>LAB USE ONLY</b> Status of Sample(s) Received: Transport Temperature _____ On Ice <input checked="" type="checkbox"/> Sealed _____ Not Sealed <input checked="" type="checkbox"/> Received by: _____ Mail _____ Drop Off _____		<b>FIELD CHARGES</b> Field Hours: _____ GP Charge: <input checked="" type="checkbox"/> \$1,788 Pick Up Charge: _____ Equipment Charge: <input checked="" type="checkbox"/> \$200	
Relinquished By: (Signature) <u>[Signature]</u>	Date/Time <u>6-5-24 6:03</u>	Received By: (Signature) <u>[Signature]</u>	Date/Time <u>6-5-24 18:03</u>	Received for Lab By: <u>[Signature]</u>	Date/Time <u>6-5-24 19:17</u>		

Comments / Notes: \_\_\_\_\_



Midwest Analytical Services, Inc.  
 2905 Hilton Road • Ferndale, MI 48220  
 Phone: (248) 591-6660 • Fax: (248) 591-6668  
 Email: info@e4mas.com • Website: www.e4mas.com  
 A2LA #0381.01

## Chain of Custody Record & Sample Analysis Requests

COC NO: 42464

Order ID: 2406010

<b>REPORT TO:</b> Company Name: <u>ECS</u> Contact: <u>JULIE PRATS</u> Address: <u>523 W. SUNNYBROOK</u> City, State, Zip: <u>ROYAL OAK, MI</u> Phone: <u>586 424 7355</u> Fax: _____ Report To Email: <u>see pg 1</u>	<b>BILL TO:</b> Same as Reports <input checked="" type="checkbox"/> Company Name: <u>ECS</u> Contact: <u>ANDY FORAC</u> Address: _____ City, State, Zip: _____ Quote #: <u>U387</u> PO #: _____ Project/Job #: _____ Bill To Email: _____	ANALYSIS METHOD: <u>VOCs</u> DL: _____ ANALYSIS METHOD: <u>PNAs</u> DL: _____ ANALYSIS METHOD: <u>10 MI METALS</u> DL: _____ ANALYSIS METHOD: _____ DL: _____ ANALYSIS METHOD: _____ DL: _____ ANALYSIS METHOD: <u>HOLD</u> DL: _____	<b>QC LEVEL:</b> Page <u>2</u> of <u>2</u> I II III Normal <input checked="" type="checkbox"/> Rush _____ Needed By: _____ <b>CONTAINER LEGEND</b> TYPE: PRESERVATIVE: P = Plastic 1 = Non Preserved 6 = H <sub>2</sub> SO <sub>4</sub> G = Glass 2 = HCl 7 = Methanol M = Metal 3 = HNO <sub>3</sub> 8 = Na Thiosulfate 4 = NaOH 9 = Trizma 5 = Hexane
---	--	--	---

ITEM	SAMPLE ID	FIELD INFO		TIME ZONE: E C M P		MATRIX	ANALYSIS METHOD	DL	CONTAINERS			LAB USE ONLY									
		Hot? / PID	Date	Time	Type												Size	Preservative	MAS#		
	SOIL SAMPLE SB-6 (0.2')	-	6-5-24	5:20		SOIL											X	GG	40 <sup>mm</sup> / 60	7.1	240606015
	SOIL SAMPLE SB-6 (6.8')	-	"	5:30		SOIL											X	"	"	"	240606016
	GROUNDWATER SB-1	-	"	1:09		GW											X	GP	40 <sup>mm</sup> / 60	2,3	240606017
	" SB-2	-	"	11:30		GW											X	GPG	40 <sup>mm</sup> / 60	2,3,1	240606018
	" SB-3	-	"	1:40		GW											X	"	"	"	240606019
	" SB-4	-	"	2:35		GW											X	"	"	"	240606020
	" SB-5	-	"	4:25		GW											X	"	"	"	240606021
	GROUNDWATER SB-6	-	6-5-24	5:33		GW											X	"	"	"	240606022

Matrix type options: waste water(WW), ground water(GW), drinking water(DW), soil(SO), solid(SW), liquid(LW), air(AI), wipe(WI).  
 All fields must be filled in; see back of COC for instructions. Level II or III QA/QC reports incur additional cost.

Sampled By: (Signature) <u>Steve K...</u> Print Name: <u>STEVE K...</u> Date: <u>6-5-24</u>				<b>LAB USE ONLY</b>				<b>FIELD CHARGES</b>							
Relinquished By: (Signature) <u>Steve K...</u>		Date/Time: <u>6-5-24 6:07</u>		Received By: (Signature) <u>RJC</u>		Date/Time: <u>6-5-24 18:03</u>		Status of Sample(s) Received: Transport Temperature _____ On Ice: <u>X</u> Sealed _____ Not Sealed <u>X</u>				Field Hours: _____ GP Charge: <u>see page 1</u>			
				Received for Lab By: <u>RJC</u>		Date/Time: <u>6-5-24 19:17</u>		Received by: _____ Mail _____ Drop Off _____				Pick Up Charge: _____ Equipment Charge: <u>see page 1</u>			

Comments / Notes: \_\_\_\_\_

## **Maria Vojnovic**

---

**From:** Julie Pratt <jpratt@environmentalconsultingsolutions.com>  
**Sent:** Thursday, June 6, 2024 9:50 AM  
**To:** Maria Vojnovic; Kevin O'Mara  
**Cc:** Stephen Kulpanowski  
**Subject:** Revised C of C  
**Attachments:** 123 Summit Revised Chain of Custody 6.6.24.pdf

Good morning,

Attached is the updated C of C for yesterday's drilling with selected sample analysis.

Please respond to this email with confirmation it has been received.

Thanks,  
Julie  
586-424-7355

Midwest Analytical Services, Inc.  
 2905 Stebbins Road • Ironton, MO 63220  
 Phone: (314) 991-6660 • Fax: (314) 991-6661  
 Email: info@midwest.com • Website: www.midwest.com  
 AIAA #01911/01

# Chain of Custody Record & Sample Analysis Requests

Order ID: 2466019

**REPORT TO:**  
 Company Name: ECS  
 Contact: Bill HART  
 Address: 522 W. Super Block  
 City, State, Zip: Quincy CA 94131  
 Phone: (502) 424-7355  
 Fax: \_\_\_\_\_  
 Request To Email: Request@midwest.com

**BILL TO:** *Send to Requestor*  
 Company Name: ECS  
 Contact: ANITA FOREAN  
 Address: \_\_\_\_\_  
 City, State, Zip: \_\_\_\_\_  
 Order #: \_\_\_\_\_ PO #: \_\_\_\_\_  
 Preparation #: A121-0001-04  
 Bill To Email: \_\_\_\_\_

FIELD	SAMPLE ID	FIELD INFO		TIME ZONE	E C M P	METERS	ANALYSE METHOD	DATE	CONTAIENER SELECTED	EXACT RESULTS	LAB USE ONLY						
		Box # / TID	Dist														
	S01C SWRVS	SR-1	(2-4)														
		SR-1	(10-12)														
		SR-2	(A-C)														
		SR-2	(B-10)														
		SR-3	(A-C)														
		SR-3	(12-14)														
		SR-4	(D-2)														
		SR-4	(12-M)														
		SR-5	(O-2)														
		SR-5	(6-8)														
		SR-5	(6-8)														

VOCs  
 PNA  
 10 ALL METALS  
 HOLD

OC LEVEL: I II III  
 DATE: P-Fault, Q-Clean, M-Misc  
 CONTAIENER SELECTED: PRESERVE  
 1 - Non-Preserved, 2 - 200, 3 - 10-20, 4 - 10-20, 5 - 10-20, 6 - 10-20, 7 - 10-20, 8 - 10-20, 9 - 10-20

Material type: water/WWA, ground water/DWA, drinking water/DWA, soil/SO, rain/SWA, Reg-III/MC, air/AI, water/WVA  
 All fields must be filled in the back of COC for interpretations. Level II or III QVOC reports must address all such.

Sample By: (Signature) Rick Hart Date Taken: 11/29/03  
 Requested By: (Signature) Shak Williams Date: 11/29/03  
 Analyzed By: \_\_\_\_\_ Date: \_\_\_\_\_  
 Number of Samples Received: \_\_\_\_\_  
 Sample Temperature: \_\_\_\_\_  
 Analyzed by: \_\_\_\_\_ Date: \_\_\_\_\_



**Appendix C**  
**Survey Map**





**Appendix D**  
**Professional Resumes**

## **PROFESSIONAL BACKGROUND**

Mr. Foerg is a Certified Professional Geologist with over 30 years in the environmental industry. Responsibilities focus on client service, project management and technical problem solving. Clients encompassed major oil companies, national retailers, automotive, developers, housing commissions, municipalities, attorneys, public school districts, charter schools and private companies.

## **EDUCATION**

B.S., Geology, Wayne State University, 1984

## **CERTIFICATIONS**

Certified Professional Geologist (CPG), American Institute of Professional Geologists (AIPG), #9977  
Certified Professional Geologist (CPG), State of Kentucky, #1958  
Registered Professional Geologist (RPG), State of Indiana, #1428  
Certified Underground Storage Tank Professional (CP), State of Michigan, #613  
Certified Lead Inspector/Risk Assessor, State of Michigan, MDCH, #P-04659  
Accredited Asbestos Inspector, State of Michigan, LARA, #A40959

## **PROFESSIONAL EDUCATION COURSES**

Sampling Strategies and Statistics Training for Part 201 Cleanup Criteria, Michigan Department of Environmental Quality (MDEQ)  
Risk Based Corrective Action, Foster Wheeler  
40-Hour HAZWOPER Initial Health and Safety Training  
8-Hour HAZWOPER Supervisor Health and Safety Training  
8-Hour HAZWOPER Health and Safety Refresher  
Management & Unions Serving Together (MUST) Safety Training Certified

## **PROFESSIONAL EXPERIENCE**

### **LANDFILL EXPERIENCE**

**City of Auburn Hills, Landfill Monitoring Oversight** — Project Manager for the City of Auburn Hills during ongoing monitoring of the Oakland Heights Landfill for nearly 15 years. Duties include management of oversight monitoring, communication with the landfill monitoring contractor, the landfill consultant, and the City of Auburn Hills. Responsible for review and preparation of summary reports summarizing of quarterly and annual sampling events and presenting the information to the City of Auburn Hills Council during regular public city council meetings.

**Wayne Co. Environmental Health Dept., Solid Waste Division** — Primary responsibilities involved enforcement of solid waste and hazardous waste regulations. Performed periodic inspections of landfills and other solid waste facilities to enforce compliance with construction, operation and monitoring regulations. Responded to citizen complaints and reports of illegal dumping. Other responsibilities included participating in landfill license application review, and State of Michigan landfill groundwater monitoring program.

**Former Southfield Downs/Landfill Brownfield Redevelopment** — Performed due diligence and remediation services for the Brownfield redevelopment of a 50 acre mobile home park (Southfield Downs) that had been constructed over a former unregulated landfill. The redevelopment was performed by a leading national residential home builder. Due diligence and site characterization activities were complicated by access issues associated with the operating mobile home park. This project also involved a comprehensive hazardous material survey, the removal and closure of two underground storage tanks and the abandonment of three water supply wells. Remediation activities included asbestos abatement, hazardous material removal (miscellaneous paints, cleaners, fuel containers, refrigerant containing devices etc.), removal of over 50 fuel oil ASTs and sampling/characterization/disposal of eight electrical transformers. In addition, over 45,000 tons of waste materials were removed from 17 separate disposal cells and over 500,000 gallons of water entrained within the waste was removed. The redevelopment involved the construction of residential condominiums and for-sale homes.

## **DUE DILIGENCE**

**Environmental Due Diligence, National Automotive Dealership Program**— Lead technical resource and client contact for Big 3 automotive manufacturer national dealership program. Managed National Dealership Program which involved expeditious evaluation (Phase I and II ESAs and environmental compliance surveys) of environmental due diligence issues at dealerships throughout the US. Also acted as project manager for numerous commercial and industrial investigation/remediation projects throughout the country.

**Preliminary Site Investigations, Ohio Department of Transportation** – Provided pre-construction investigation services for ODOT on I-75 interchange improvement project in northeastern Ohio. The investigations involved evaluation of potential environmental concerns that could affect proposed construction activities and subsurface evaluation of soils along proposed interchange improvement areas for the purpose of determining soil and groundwater handling procedures during construction. Activities included assessment of properties suspected of environmental impact along the corridor, selection of target areas for subsurface investigation and locating soil borings, collection of soil and groundwater samples in target areas and a comprehensive report of the results, including recommendations of soil and groundwater handling.

**Property Transactions, Environmental Due Diligence** — Provided due diligence and property consulting for national housing developer. Projects ranged in size from 40 to 150 acres and included both brownfield and greenfield sites. Services included environmental assessments, remediation, geotechnical studies, groundwater monitoring, UST removals/closures, construction testing, pre-demolition hazardous material surveys and abatement, demolition oversight and various engineering tasks.

**Multi-Site Property Transactions, Environmental Due Diligence** — Provided expedited due diligence and property consulting for an entity seeking to purchase a portfolio of high end sea food restaurants located in the eastern US from Michigan to Florida. The due diligence had to be completed within a six week timeframe. Activities included Phase Is at each of the sites and Phase IIs at approximately half of the sites. Significant challenges included a short (six weeks) due diligence period and access issues associated with assessing luxury establishments.

**Site Acquisition, Environmental Due Diligence** — Provided Phase I and Phase II ESAs on multiple brownfield sites for urban school district in southeast Michigan. District is located in an area that has been developed since the late 1800's and several of the properties were formerly utilized for industrial purposes. Duties included Phase I ESAs, soil and groundwater sampling, Baseline Environmental Assessments/Due Care Plans, remediation and UST removal/closures.

**NEPA** – Mr. Foerg's experience includes gathering data and preparing National Environmental Protection Act (NEPA) statutory compliance reports for compliance with HUD funded projects (24 CFR Part 58).

## **LUST/UST**

**Multisite Project Management, Michigan** — Certified UST professional, senior technical review and program manager for more than 350 retail petroleum facilities owned and operated by three major oil companies. Responsibilities included client communication, technical report review and signoff as Certified UST professional. Project work included UST removals, initial abatement measures, site assessments, site investigations, corrective actions, and remediation.

**Risk Based Site Closures, Michigan** — Involved with the implementation of RBCA for commercial, industrial, municipal and educational clients to include risk assessment, exposure pathway determination, reporting, and closure. Supervised closures of more than 60 sites under RBCA. Attended MDEQ and ASTM training courses on RBCA.

## **REMEDIATION/BROWNFIELDS**

**UAW-GM Center for Human Resources, Detroit, Michigan** - Designed and implemented remedial investigation of former industrial property on the banks of the Detroit River and negotiated MDEQ approved limited closure. Implemented and managed full time environmental health and safety monitoring program during the redevelopment of property into the UAW-GM Center for Human Resources. Program length exceeded two years and involved full time staff member monitoring of environmental conditions, rapid response to discovery of environmental issues, and a fugitive dust-monitoring network.

**Roosevelt Refinery, Mount Pleasant, Michigan** - Co-authored an Interim Remedial Action Plan for the former Roosevelt (Total) refinery located in Mt. Pleasant, Michigan. The site had been ranked as the second highest scoring Act 307 (Pre Act 451) site in Michigan. The IRAP involved a combination of deed restrictions, bioremediation, soil vapor extraction, excavation, engineered exposure barriers, sediment dredging and sheet pile barriers.

**Former Herman Gardens Public Housing Development, Detroit, Michigan** - Designed and implemented HUD Environmental Assessment and Construction Readiness Assessment for the former Herman Gardens Public Housing Development in Detroit, Michigan. The project site encompasses 139 acres and was demolished in the 1990s. The redevelopment of the site is considered the largest and most significant public housing project in the City. Project included focused geophysical, geotechnical and environmental characterization, Brownfield Support, MDEQ negotiations, remedial cost estimates and MSHDA financing support.

## **ASBESTOS/LEAD BASED PAINT**

**Detroit Housing Commission - Professional Services Contract for Industrial Hygiene and Environmental Services** - Services consisted primarily of expedited Agency-Wide Asbestos Surveys and Lead Based Paint Inspections/Risk Assessments on numerous multi-family (typically high rise buildings) developments and hundreds of scattered single family homes throughout Detroit. Subsequent to the abatement of identified regulated asbestos containing materials and/or lead based paint hazards, clearance testing was performed.

**Confidential Redevelopment of 125 Unit Apartment Building in Detroit, Michigan** –The building, located in the New Center area was originally constructed in the early 1900's and had been vacant for approximately 10 years. Due Diligence activities included Phase I and Phase II ESAs in accordance with MSHDA and HUD requirements. Asbestos and lead based paint activities included a comprehensive pre-renovation asbestos survey in accordance with NESHAP and a lead based paint inspection based on HUD's random statistical protocol. The work was complicated by the poor condition of the building's interior components and because it was determined that the building had actually been constructed in 2 separate phases.

**Miscellaneous Residential, Commercial, Industrial and Educational Projects in Michigan and Ohio**- Managed numerous asbestos and lead based paint projects for various clients in Michigan and Ohio. Projects were often associated with other due diligence activities and included one or more of the following services: asbestos surveys in accordance with NESHAP and or AHERA protocols; preparation of Operation and Maintenance or AHERA Management plans; lead based paint inspections and risk assessments in accordance with Michigan, Ohio, HUD and/or MSHDA protocols; development of abatement specifications; contractor procurement; abatement oversight/air sampling; and, clearance sampling.

## **PROFESSIONAL AFFILIATIONS**

American Institute of Professional Geologists – Former Officer  
MDEQ UST Stakeholders Workgroup – AIPG Representative  
MDEQ Landfill Redevelopment Guidance Peer Review Committee  
MDEQ Groundwater Evaluation Guidance Peer Review Committee

**Julie Anna Pratt**  
**Senior Project Professional**

## **PROFESSIONAL BACKGROUND**

Ms. Pratt is a Certified Industrial Storm Water operator and also has over 25 years of professional experience in the environmental consulting industry. As a Senior Project Professional, Ms. Pratt is responsible for coordinating and managing environmental contamination and compliance projects for industrial, commercial, residential, and municipal clients.

## **EDUCATION**

B.S., 1993, Biochemistry – Michigan State University, East Lansing, Michigan

## **PROFESSIONAL EDUCATION COURSES**

ASTM Certification in RBCA Applied at Petroleum Release Sites  
40-Hour HAZWOPER Initial Health and Safety Training  
8-Hour HAZWOPER Health and Safety Refresher

## **PROFESSIONAL EXPERIENCE**

Ms. Pratt has particular expertise in Phase I and Phase II Environmental Site Assessments, environmental site investigations, due diligence, Baseline Environmental Assessments, and Risk-Based Corrective Action (RBCA) analyses. Ms. Pratt also has experience in a variety of regulatory compliance areas, including pollution prevention, storm water plans, landfill compliance, and liquid industrial waste.

## **DUE DILIGENCE**

Landowners, potential purchasers and financial institutions have relied on Ms. Pratt's guidance to ensure timely and trouble-free property transactions. Provided key assistance in property transactions, saving time, money, and unnecessary actions by demonstrating a thorough knowledge and understanding of due diligence requirements and applicable regulations.

**Phase I Environmental Site Assessments**— Ms. Pratt has performed or managed more than 250 Phase I Environmental Site Assessments (ESA) for sites ranging from vacant lots and agricultural property to major industrial and commercial facilities. Phase I ESA's were conducted in accordance with the All Appropriate Inquiry (All) standard compliant with 40 CFR 312 and ASTM Standards as well as MSHDA, SBA and financial institution requirements.

**Phase II Environmental Site Assessments**—On projects with recognized environmental conditions (RECs), Phase II ESA's were completed expeditiously, consisting of a scope of work that would be considered reasonable and sufficient to identify the presence, nature and extent of a release as it impacts the Property.

**Baseline Environmental Assessments** – Ms Pratt has been involved with the completion of numerous Baseline Environmental Assessments (BEA's) at qualifying sites to provide liability protection from pre-existing contamination.

**Due Care Compliance** —Ms. Pratt's expertise includes Due Care considerations as outlined in Part 201 of PA 451, as amended, including Section 7a Due Care Compliance Analysis and Due Care Plan development. She has worked with property owners/developers and financial lending institutions to ensure immediate and long term due care obligations are met.

**NEPA** – Ms. Pratt's experience includes gathering data and preparing National Environmental Protection Act (NEPA) statutory compliance reports for compliance with HUD funded projects (24 CFR Part 58).

### **LUST/UST/REMEDIATION/BROWNFIELDS**

Provided project assistance, regulatory reporting and remedial management of subsurface contamination in accordance with Part 213 and/or Part 201 guidelines. Managed or assisted on more than 250 sites of subsurface contamination involving the release of regulated and non-regulated petroleum products and solvents. Involved site characterization, soil and groundwater sample collection and analysis for vertical and horizontal delineation, RBCA analyses, feasibility analyses, corrective action plans, and periodic reporting to the Michigan Department of Environmental Quality (MDEQ). Has conducted aggressive free product recovery, groundwater pump-and-treat, remedial excavation and bioremediation at several sites. Also performed detailed subsurface potential receptor/migration pathway/exposure pathway evaluations in accordance with the MDEQ RBCA process.

Conducted second-opinion reviews on behalf of attorneys and insurance companies for numerous Part 201 and Part 213 facilities.

### **LANDFILL EXPERIENCE**

Provided general environmental landfill compliance services, including a review of landfill operations, permits and agreements, meeting with key Landfill personnel, and performing site reconnaissance to evaluate environmental compliance, operations and daily activities. Included oversight of hydrogeologic monitoring, leachate control/management, methane management, storm water/surface water management and community nuisance elements.

### **COMPLIANCE/PERMITTING**

Conducted evaluations of several bulk oil facilities to determine compliance with state and federal regulations associated with oil pollution prevention and spillage of oil and polluting materials. The pollution prevention activities included identification of non-compliance with state and federal regulations associated with oil pollution prevention and spillage of oil and polluting materials. Compliance was accomplished by developing and implementing alternative containment and diversionary structures to prevent the threat of a spill or release outside of the containment areas.

Assisted large-scale construction company with innovative waste hauling permitting and compliance. Generation of liquid industrial waste permits, applications, laboratory analysis, and disposal associated with concrete slurry during road construction. Also assisted with Storm Water Pollution Prevention Plan for portable concrete batch plant during airport runway construction.

