



PHASE I ENVIRONMENTAL SITE ASSESSMENT

**FORMER WAREHOUSE
700 GAREY STREET
SAGINAW, MICHIGAN**

**Prepared for:
General Motors Corporation**

**SEPTEMBER 2006
REF. NO. 045285 (1)**

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1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) was retained by General Motors Corporation (GM) to complete a Phase I Environmental Site Assessment (ESA) of the Former Warehouse property located at 700 Garey Street in Saginaw, Michigan (the Site). The purpose of the Phase I ESA was to identify recognized environmental conditions (RECs), as defined in ASTM Standard E1527-00, associated with prior or current activities conducted at or adjacent to the Site. A Site location map is provided as Figure 1.1.

The Site is approximately 3.77 acres in size and is currently vacant with grass cover and some trees along the southeastern Site boundary. The Site is bordered by railroad tracks to the south, Owen Street (vacated) to the west, Garey Street to the north, and Brown Street to the east.

Based on information reviewed, the Site's first known development was between 1915 and 1935 by Nelson Brothers Company, a manufacturer of gasoline engines. The Site was occupied by Palace Corp. in 1950, and then functioned later as a warehouse utilized by Sears Roebuck & Co. The Site was acquired by GM in 1979. The Site is currently vacant in an industrial/residential area of the City of Saginaw, Michigan.

The Phase I ESA was conducted in general accordance with ASTM Standard E 1527-00 for conducting environmental assessments. The assessment included an environmental database search, historical records review, a Site inspection of accessible areas, a review of relevant Site records made available to CRA, and interviews with individuals associated with the Site. No exceptions to ASTM E1527-00 were taken during this Phase I ESA. This Phase I ESA was prepared by Martha Darnton and Brian Boevers of CRA. Copies of curriculum vitae outlining their qualifications are contained in Appendix A.

The following tasks were conducted during the assessment:

- review of Federal and State environmental databases and historical records;
- review of historical aerial photographs of the Site;
- review of past and current property use and adjacent property occupancy;
- inspection of the facilities, equipment, utility services, operations, and associated Site records;

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- observations of conditions that represented potential environmental concerns;
- review of chemical use and storage and spill/release incidents;
- review of the results of prior inspections conducted at the Site;
- review of waste handling, accumulation, storage, and disposal practices;
- review of air emissions and wastewater discharges;
- review of equipment that potentially contain polychlorinated biphenyls (PCBs);
- observation of potential asbestos-containing materials (ACM);
- review of aboveground and underground storage tank records; and
- review of previous environmental reports prepared for the Site.

CRA relied on information received from regulatory agency and Site personnel as accurate unless contradicted by written documentation or field observations.

The following report summarizes the information gathered by CRA during the Phase I ESA and identifies recognized environmental conditions, as defined in ASTM Standard E1527-00, associated with the Site.

The Phase I ESA has been prepared for the use of GM and may not be relied upon by any other party without written consent from CRA.

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**2.0 ENVIRONMENTAL DATABASES SEARCH AND
HISTORICAL RECORDS SEARCH**

2.1 ENVIRONMENTAL DATABASES SEARCH

CRA contracted Environmental Data Resources, Inc. (EDR) to conduct a search of federal and state environmental databases. Based on the address of the Site, the database searches were completed to assist in the identification of conditions at the Site and within a radius distance specified in ASTM Standard E1527-00. A copy of the database search is included as Appendix B. The following databases were searched with the findings as follows:

2.1.1 FEDERAL DATABASES

1. National Priority List (NPL) - The NPL is a United States Environmental Protection Agency (USEPA) listing of the nation's more significant uncontrolled or abandoned hazardous substance sites. NPL Sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) of 1980. In addition, the NPL Report includes information concerning cleanup agreements between the USEPA and potentially responsible parties, any liens filed against contaminated properties, as well as the past and current USEPA budget expenditures tracked within the Superfund Consolidated Accomplishments Plan (SCAP).

FINDING: According to the databases searched, the Site was not on the NPL. No sites within a one-mile radius of the Site were on the NPL.

2. Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) - The CERCLIS List contains data on potential hazardous substance sites that may have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of CERCLA. CERCLIS contains sites which are either proposed to or on the NPL and sites which are in the screening and assessment phase for possible inclusion on the NPL.

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FINDING: According to the databases searched, the Site was not on the CERCLIS List. No sites within a half-mile radius of the Site were on the CERCLIS List.

3. No Further Remedial Action Planned Sites Report (NFRAP) – As of February 1995, CERCLIS sites designated “No Further Remedial Action Planned” have been removed from CERCLIS. NFRAP sites may be sites where, following an initial investigation, no contamination was 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 Federal Superfund Action or NPL consideration. EPA has removed approximately 25,000 CERCLIS sites to lift the unintended barriers to the redevelopment of these properties and has archived them as historical records so EPA does not needlessly repeat the investigations in the future. This policy change is part of the EPA’s Brownfields Redevelopment Program to help cities, states, private investors and affected citizens to promote economic redevelopment of unproductive urban sites.

FINDING: According to the databases searched, the Site was not listed in the NFRAP Sites Report. No sites within a half-mile radius of the Site were listed in the NFRAP Sites Report.

The following sites were listed in the NFRAP Sites Report, but could not be located by EDR with respect to the Site due to incomplete address information:

<u>Facility</u>	<u>Address</u>
Ruben Schultz-Former Tannery	1000, 115 & 1225 N. Washington Ave.
MI Dept/Natural Resources	Not Reported

4. Resource Conservation and Recovery Information System (RCRIS) – Non-Corrective Action Treatment, Storage and Disposal (TSD) Facilities Report - The RCRIS-TSD Report contains information regarding these facilities that either treat, store or dispose of USEPA-regulated hazardous waste. The following information also is included in the RCRIS-TS Report: information regarding the status of facilities tracked by the Resource Conservation and Recovery Act (RCRA) Administrative Action Tracking System (RAATS); inspections and evaluations conducted by Federal and State agencies; all reported facility violations, the environmental statutes violated and any proposed and actual penalties; and a complete listing of USEPA-regulated hazardous wastes which are generated or stored on site.

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FINDING: According to the databases searched, the Site was not listed in the RCRA-TSD Report. No sites within a half-mile radius of the Site were listed in the RCRA-TSD Report.

5. RCRA - Corrective Action (CORRACTS) Report - The CORRACTS Report contains information pertaining to hazardous waste treatment, storage and disposal facilities (RCRA TSDs) which have conducted or are currently conducting corrective actions as regulated by RCRA. The following information also is included in the CORRACTS Report: information regarding the status of facilities tracked by the RAATS; inspections and evaluations conducted by Federal and State agencies; all reported facility violations, the environmental statutes violated and any proposed and actual penalties; information pertaining to corrective actions undertaken by the facility or the USEPA; and a complete listing of USEPA-regulated hazardous wastes which are generated or stored on site.

FINDING: According to the databases searched, the Site was not listed in the CORRACTS Report. No sites within a one-mile radius of the Site were listed in the CORRACTS Report.

6. RCRIS - Large Quantity Generators (LQG) Report - The RCRIS-LQG Report contains information regarding facilities that either generate more than 1,000 kilograms (kg) of USEPA-regulated hazardous waste per month or meet other applicable requirements of RCRA. The following information also is included in the RCRIS-LQG Report: information regarding the status of facilities tracked by the RAATS; inspections and evaluations conducted by Federal and State agencies; all reported facility violations, the environmental statutes violated and any proposed and actual penalties; information pertaining to corrective actions undertaken by the facility or the USEPA; and a complete listing of USEPA-regulated hazardous wastes which are generated or stored on site.

FINDING: According to the databases searched, the Site was not listed in the RCRIS-LQG Report. No sites within a quarter-mile radius of the Site were listed in the RCRIS-LQG Report.

7. RCRIS - Small Quantity Generators (SQG) Report - The RCRIS-SQG Report contains information regarding facilities that either generate between 100 kg and 1,000 kg of USEPA-regulated hazardous waste per month or meet other applicable requirements of RCRA. The following information also is included in

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the RCRIS-SQG Report: information regarding the status of facilities tracked by the RAATS; inspections and evaluations conducted by Federal and State Agencies; all reported facility violations, the environmental statutes violated and any proposed and actual penalties; information pertaining to corrective actions undertaken by the facility or the USEPA; and a complete listing of USEPA-regulated hazardous wastes which are generated or stored on site.

FINDING: According to the databases searched, the Site was not listed in the RCRIS-SQG Report. One adjacent property was listed in the RCRA-SQG Report, with two entities, these being Saginaw Electric and Wolverine Pattern, located at 1716 East Jefferson Avenue (adjacent to the west). The following additional sites within a quarter-mile radius of the Site were listed in the RCRA-SQG Report:

<u>Facility</u>	<u>Address</u>
City of Saginaw	1741 S. Jefferson Avenue
City of Saginaw	Holland & Owen Road
Means Industries Inc.	1811 S. Jefferson Avenue

The following sites were listed in the RCRA-SQG Report, but could not be located by EDR with respect to the Site due to incomplete address information:

<u>Facility</u>	<u>Address</u>
MI Dept/Transportation	Not Reported
MI Dept/Transportation	Bridgeport Rest Area
MI Dept/Environmental Quality	Fred & Rittter Road
Wolverine State Baptist Convention	615 S. Jefferson
MI Dept/Natural Resources	Not Reported
MI Dept/Transportation Bridge	I-75 under Hess Road
Thomson Saginaw Ball Screw Co. Inc.	S. Towerline Road
Saginaw Asphalt Paving No. 9	4745 Veterans Memorial Pkwy.

8. Emergency Response Notification System - ERNS records and stores information on reported releases of oil and hazardous substances.

FINDING: According to the databases searched, the Site was not listed in the ERNS.

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9. Toxic Chemical Release Inventory System (TRIS) - The TRIS Database identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

FINDING: According to the databases searched, the Site was not listed in the TRIS Database.

2.1.2 STATE DATABASES

1. Underground Storage Tank (UST) Database – USTs are regulated under Subtitle I of RCRA and must be registered with the state department responsible for administering the UST program. In Michigan, the relevant agency is the UST Program of the Storage Tank Unit of the Michigan Department of Environmental Quality (MDEQ).

FINDING: According to the databases searched, the Site was not listed in the UST Database. No adjacent sites were listed in the UST Database. One site within a quarter-mile radius of the Site was listed in the UST Database, this being Jefferson Oil Company located at 1807 South Jefferson Avenue, which was reported as having seven removed USTs.

The following sites were listed in the UST Database, but could not be located by EDR with respect to the Site due to incomplete address information:

<u>Facility</u>	<u>Address</u>
Stevens Van Lines Inc.	3780 Euclid Ave.
Former Bruce Cartage	3460 E. Washington Avenue

2. Leaking Underground Storage Tank Sites (LUST) Report - The LUST Report contains an inventory of reported leaking underground storage tank incidents. In Michigan, the relevant agency is the LUST Program of the Remediation and Redevelopment Division (RRD) of the MDEQ.

FINDING: According to the databases searched, the Site was not listed in the LUST Report. No adjacent sites were listed in the LUST Report. The following sites within a half-mile radius of the Site were listed in the LUST Report:

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<u>Facility</u>	<u>Address</u>	<u>Status</u>
Fischer-Flack, Inc.	2115 Rust Avenue	Closed
Gene A Mixon	1106 E. Holland Avenue	Open
Acme Block & Supply	1833 Sheridan Street	Closed
Jefferson Oil Co.	1807 S. Jefferson Avenue	Closed
Crosstown Marathon	306 E. Remington Street	Open
City of Saginaw/Motor Equip. Div	1435 S. Washington Avenue	Closed

The following sites were listed in the LUST Database, but could not be located by EDR with respect to the Site due to incomplete address information:

<u>Facility</u>	<u>Address</u>
Stevens Van Lines Inc.	3780 Euclid Ave.
Former Bruce Cartage	3460 E. Washington Avenue

3. Solid Waste Facility List - The Solid Waste Facility List contains an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, 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.

FINDING: According to the databases searched, the Site was not on the Solid Waste Facility List. No sites within a half-mile radius of the Site were on the Solid Waste Facility List.

One site was on the Solid Waste Facility List, but could not be located by EDR with respect to the Site due to incomplete address information, this being Lambert Sanitary Landfill located on RR 1.

4. State Hazardous Waste Sites List - State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS List. Priority sites planned for cleanup using state funds are identified along with sites where cleanup will be paid for by the potentially responsible parties.

FINDING: According to the databases searched, the Site was not on the State Hazardous Waste Sites List. No sites within a one-mile radius of the Site were on the State Hazardous Waste Sites List.

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The following sites were on the State Hazardous Waste Sites List, but could not be located by EDR with respect to the Site due to incomplete address information:

<u>Facility</u>	<u>Address</u>
Former National Plate Glass	4000-4061 Arthur Street
Grand Trunk RR Genesee Street	400 Block W. Genesee Street
Emerson Street Retention Basin	Emerson and Water
Crow Island Landfill	Crow Island
Schultz Scrapyard	3300 Gabriel Road
Not Reported	W. Genesee, S. Side
Niagara Street, Block 25	Niagara and Madison
Niagara Street, Block 30	Niagara and Madison
Weiss Street Retention Basin	Null
SCA Saginaw TWP LF	1810 O'Conner Road
CSX Former GM Nodular Iron Yard	North of 2619 N. Washington
MDOT M13 Ramps	M13 Ramp For I-75

5. Baseline Environmental Assessment (BEA) Database – The BEA Database is provided by the MDEQ.

FINDING: According to the databases searched, the Site was not listed in the BEA Database. No adjacent sites were listed in the BEA Database. The following sites were within a half-mile radius of the Site were listed in the BEA Database:

<u>Facility</u>	<u>Address</u>
Not Reported	1800 S. Jefferson Avenue
Not Reported	1475 S. Washington Avenue
Not Reported	1446 S. Washington Avenue
Not Reported	306 E. Remington
Not Reported	1424 S. Washington Avenue
Not Reported	1100 Rust Avenue

The following sites were listed in the BEA Database, but could not be located by EDR with respect to the Site due to incomplete address information:

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<u>Facility</u>	<u>Address</u>
Not Reported	1817/1811 S. Jefferson Avenue
Not Reported	Parcel B – 1700-2000 Hess Avenue

6. State NPL Sites List – State NPL site records are the states' equivalent to the Federal NPL.

FINDING: The State of Michigan does not maintain a State NPL Sites List.

2.2 HISTORICAL RECORDS REVIEW

2.2.1 SANBORN FIRE INSURANCE MAPS

Sanborn Fire Insurance Maps assist in the identification of historic land use and commonly indicate the existence and location of aboveground and underground storage tanks, structures, improvements and facility operations.

Sanborn Maps for the years 1901, 1935, 1950, and 1969 were available for the area including the Site in the EDR Historic Map Collection. The following is a summary of features identified at the Site and surrounding properties as observed on the Sanborn Maps:

1901: The 1901 Sanborn Map depicts the Site as vacant land. Owen Street borders the Site to the west, Howard Street bisects the Site, and Brown Street borders the Site to the east. Properties east and west of the Site also appear to be vacant. South of the Site are the Chicago and Grand Trunk System Railroad and the Pere Marquette Railroad, with the Furstenberg Brothers & Co. Lumber Yard beyond. Morse Street borders the Property to the north (previous name for Garey Street), and a residential subdivision is beyond Morse Street.

1935: The 1935 Sanborn Map depicts the Site as "Nelson Bros. Co., Manufacturers of Gasoline Engines." The Site building comprises the entire western portion of the Site, with operations identified such as foundry (with earthen floor), sanding shed, casting, a warehouse, and a factory area. A gas tank is depicted near the northwest corner of the Site building, possibly within Owen Street. Howard Street through the Site appears to have been vacated, and Morse Street is the north boundary. The character of the surrounding properties appear to remain

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the same as the 1901 Sanborn Map, with the exception that the Furstenberg Bros. Lumber Company has expanded further to the south and residences are now present across Brown Street to the west of the Site. No structures appear to be present on the property west of the Site along South Jefferson Avenue. Residential dwellings remain north of the Site.

1950: On the 1950 Sanborn Map, the Site and surrounding properties appear essentially unchanged from the 1935 Sanborn Map, with the exception that the Site is now identified as "Palace Corp, Manufacturers of Portable Buildings" on the east and "Sears Roebuck Co. W.Ho. No.1" on the west. The gas tank near the northwest corner of the Site building is still present. Furstenberg Bros. Lumber Co. is still present south of the Site across the railroad tracks and residences remain east of the Site across Brown Street, and north of the Site across Morse Street. The property west of the Site that fronts along South Jefferson Avenue is now developed as House Trailer Sales, Wholesale Electrical Supply, and a Machine Shop (from Morse Street north to the railroad tracks south).

1969: The 1969 Sanborn Map depicts the configuration of the Site and surrounding properties as essentially unchanged from the 1950 Sanborn Map. However, the Site is identified as owned by Howard Industries, Inc. with various occupants, and Sears Roebuck & Co. along the west side of the Site building. Furstenberg Bros. Lumber Co. remains south of the Site across the railroad tracks and residences remain east of the Site across Brown Street, and north of the Site across Morse Street. The property west of the Site that fronts along South Jefferson Avenue is identified as "Elec. Parts W.Ho.," "Whol. Elec. Supplies," and "Dry Cleaning" (from Morse Street north to the railroad tracks south).

Copies of the above-referenced Sanborn Maps are provided as Appendix C.

2.2.2 TITLE SEARCH

Property title information was obtained from NCO Financial Systems, Inc. (NCO) of Metairie, Louisiana. NCO searched public records of Saginaw County, Michigan from January 1, 1940 to April 17, 2006. The following entities were reported to be associated with ownership or occupation of the Site or portions of the Site during the specified time periods:

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<u>Date</u>	<u>Grantor</u>	<u>Grantee</u>
11/28/1941	Dallas E. Winslow, Inc.	Lydia Doss
02/01/1979	Lydia M. Dunn f/k/a Lydia M. Doss, by Howard J. Doss, II her Attorney-in-Fact	General Motors Corporation

No leases, easements, or environmental liens were found to be associated with the Site. A copy of the title search document from NCO is provided as Appendix D.

2.2.3 AERIAL PHOTOGRAPHS

Aerial photographs assist in the identification of Site features and outdoor activities of potential environmental concern. Aerial photographs of the Site for the years 1941, 1950, 1970, 1980, and 1992 were available from EDR. The aerial photographs for the years 1941 and 1950 were reviewed at a scale of one inch equals approximately 500 feet. The aerial photograph for 1970 and 1980 were reviewed at a scale of one inch equals approximately 600 feet. The 1992 aerial photographs were reviewed at an unknown scale.

In the 1941, 1950, 1970, and 1980 aerial photographs, the Site building is shown in the same general configuration as the early Sanborn maps; however, the scale of the photographs makes it difficult to identify specific building features, property characteristics/conditions, or general land uses at the Site that may have the potential to adversely impact the environment. Surficial scarring, the nature of which cannot be discerned, is evident east of the Site building in the "yard" area on the 1970 and 1980 aerial photographs. The Site is depicted as a vacant lot in the 1992 aerial photograph.

The properties north and east of the Site appear to be residential dwellings in all of the photographs. The railroad tracks south of the Site are clearly visible in all of the photographs, with gradual development of the Furstenberg Bros. Lumber property south of the tracks. The property west of the Site is a vacant lot on the 1941 photograph, and beginning in the 1950 photograph through the 1992 photograph, three buildings are depicted on the western property in similar configurations to the Sanborn maps.

Copies of the above-referenced aerial photographs are presented in Appendix E.

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2.2.4 HISTORIC TOPOGRAPHIC MAPS

Historical topographic maps were reviewed to assist in the identification of historic land use, to document the general development of the Site and properties in the vicinity of the Site, and to identify potential on-Site fill activities. Historic topographic maps of the Site and surrounding area were obtained from EDR for the years 1919, 1967, and 1973 (photorevised). The 1919 topographic map was reviewed at a scale of 1:62,500. The remaining topographic maps were reviewed at a scale of 1:24,000.

In the 1919 historical topographic map, the Site is shown with a large building, with surrounding properties to the west, north, and east as residential in nature (based on the small building symbols). Railroad tracks are depicted immediately south of the Site and beyond are vacant lots. The Site building is present in the same configuration as the early Sanborn Maps and in the remaining topographic maps. The surrounding properties are present in their current configuration, with continued development of the properties west, and south along the railroad tracks. It should be noted that the scale of the topographic maps makes it difficult to identify specific characteristics, conditions, or land uses at the Site that indicate filling or activities that may have the potential to adversely impact the environment.

Copies of the historic topographic maps referenced above are presented in Appendix F.

2.2.5 CITY DIRECTORY SEARCH

A city directory search was conducted by EDR from the earliest directory available to the present. Available directories were reviewed by EDR for the Site address of 700 Garey Street at approximately five year intervals starting in 1902 and ending in 2005. In addition, several addresses also included within the Site boundaries were identified as surrounding properties.

The Site address was not listed on Garey Street in the city directories searched. Based on information reviewed, Garey Street was originally known as Morse. In the surrounding properties search, "Nelson Bros. Co. (gas engine mfrs.)" was listed at the "southeast corner," between the addresses of 618 and 704 Morse in the 1924 city directory. This listing was repeated in the 1929, 1934, and 1939 directories. Howard Industries and Palace Corp., both identified as auto trailer mfrs., are listed at 704 Morse in 1944. Sears

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Roebuck & Co. (whse.) is listed in the 1950 directory through the 1959 directory. Morse changes to Owen in the 1955 city directory, and no occupants are listed in the 600-800 block of Garey Street after 1959.

Surrounding property listings are residential or vacant for the addresses searched in each of the city directories, with the exception of "Otto Leitow (dairy)" at 1638 Owen in the 1934 directory.

Copies of the city directory search results referenced above are presented in Appendix G.

2.3 PREVIOUS SITE INVESTIGATIONS/ESAs

CRA was provided with the GM Saginaw Steering Gear file maintained for the Site by Mr. Bill Willard of Delphi Corporation. No previous Phase I ESAs were known to have been conducted or were available for review. The following documents contained in the GM Saginaw Steering Gear file were reviewed by CRA:

- A Michigan Inspection Bureau Map of the Site, dated June 1940 (occupant identified as "Joseph Reid Gas Engine Co., Nelson Brothers Division, Saginaw, Michigan)
- Site map dated December 17, 1951
- Documentation associated with General Motors Purchase Order Number 30T0254, dated December 5, 1984, for demolition of the "Saginaw Steering Gear Warehouse located at the Corner of Garey and Owen Streets in Saginaw, Mich."
- Documentation of soil borings and soil sampling conducted at the Site in August 1988 by Soil and Materials Engineers, Inc. (SME)
- Various Site photographs, not dated, before and after building demolition

Copies of the above-referenced reports/documentation are included in Appendix H. Summaries of issues identified in the documents are presented below.

June 1940 Site Map

Based on a review of the 1940 Site map contained in the GM Saginaw Steering Gear file, operations at the Site during manufacturing of gasoline engines included the following activities:

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- Machine shop and welding area on the north portion of the building;
- An acetylene generator east of the main building, near the welding area;
- Stock rooms, a painting and spraying room, and a crating, dipping, and woodworking area on the west side of the building;
- A foundry and cooling shed (both showing earthen floors) on the east side of the building; and
- A transformer house, laboratory, boilers, core ovens, and sand storage through the center of the building.

The map further reveals a courtyard in the middle of the building where a 1,000-gallon fuel oil UST has been identified. In addition, an 800-gallon gasoline UST is identified outside the stock room near the northwest corner of the building and a coal pile is shown outside the south end of the building adjacent to the railroad tracks. A profile view of the Site included on the map reveals that the southern part of the building had two stories to facilitate a stock room over the shipping and storage room. The portion of the Site east of the building appears to have been utilized for storage of fire bricks, pig iron, coke piles, a flask yard, scrap steel area, and other storage. There is a rail spur that serves the Site, inside a fence that separates the property from the main line Grand Trunk railroad.

Historic photographs contained in the GM Saginaw Steering Gear file reveal the presence of several unidentifiable materials and containers stored in the exterior portions of the Site, east of the Site building.

December 1951 Site Map

The December 1951 Site map appears to have been generated by the Saginaw Steering Gear Division of GM. The map indicates portions leased to Sears (western portion where painting, spraying, dipping, etc. were formerly conducted), G.E. Supply Corp. (southern portion of the former foundry, boiler and oven areas), and Baker Perkins (former foundry area/cooling shed). An area identified as "Transformers" is depicted in the courtyard, adjacent to the eastern portion of the Site building.

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General Motors Purchase Order Number 30T0254, dated December 5, 1984

Based on a review of the work description area in the purchase order, GM required the following work be conducted associated with demolition and decommissioning of the Site building:

- Completely demolish the building to one foot below existing grade;
- All utilities to be disconnected, removed from the Site, and capped at the main (gas, water, and electric are specified);
- All steel to be salvaged and delivered to GM's central foundry;
- The chain link fence surrounding the Site to be removed;
- All machine foundations and pits to be removed to 12" below the floor; and
- New topsoil to be brought in to match existing elevation, including grass seeding.

No further information was available regarding Site demolition.

Documentation of Soil Borings by SME, August 1988

A copy of SME's map showing the locations of soil borings advanced at the Site on July 19, 1988, is provided in Appendix G. The map shows that the Site building was still standing. One soil boring (B-2) was advanced inside the Site building in the southwestern corner, and the remaining borings were advanced outside of the Site building. It appears that boring B-6 was advanced near the location of the 800-gallon gasoline UST identified near the northwest corner of the Site building on earlier Site maps, and boring B-7 was advanced near the location of the 1000-gallon fuel oil UST identified near the northeast corner of the Site building. Borings B-4 and B-5 were advanced on the opposite side of Owen Street east of the Site building. Boring B-1 was advanced in the storage yard west of the Site building and boring B-3 was advanced adjacent to the east side of the building, south of boring B-6.

Soil boring logs prepared by SME and included with the map reveal that soils encountered from the ground surface to an approximate depth of 2.5 feet below ground surface (bgs) across the Site include foundry sand and foundry sand debris. Beneath this interval, soil types were described as clay with varying sand content. Groundwater was not encountered during drilling; however, none of the borings were advanced deeper than 10.5 feet bgs. No observations regarding odor were included on the logs;

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and soils do not appear to have been screened for volatile vapors with a photoionization detector (PID). Soil samples were analyzed by Burmah for the following analyses: oil and grease, total halogens, total organic carbon, polychlorinated biphenyls (PCBs) [Aroclors 1242, 1254, and 1260], and the eight Resource Conservation and Recovery Act (RCRA) metals [arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver].

Based on laboratory analytical reports provided with SME's submittal, several of the metals detected in soils were reported at concentrations higher than current Michigan Act 451, Part 201 (Part 201) generic residential criteria. Specifically, lead was detected above Drinking Water Protection Criteria (DWPC) and Direct Contact Criteria (DCC) in the samples collected from 0 to 2 feet bgs in borings B-3 and B-5, respectively. As a result, the Site meets the definition of a "facility" pursuant to Part 201.

2.4 FREEDOM OF INFORMATION ACT REQUESTS

Freedom of Information Act (FOIA) requests for current or historical information related to operations or previous occupants of the Site were sent to the following entities, based on the property address:

- Saginaw County Environmental Health Services Division;
- City of Saginaw Fire Department;
- State Fire Marshall;
- City of Saginaw Assessor's Office; and
- MDEQ (all divisions – including remediation and redevelopment (RRD), waste and hazardous materials (WHMD), the water bureau, and air quality).

In addition, on-line information was accessed through the City of Saginaw web site. According to information provided upon searching the Site's address in the Saginaw Online Network of Accessible Records (SONAR), no building permits have been issued for the Site, the Site is zoned industrial, and the owner is identified as General Motors Corporation.

The Saginaw County Department of Public Health responded that they "have found no information relative to environmental health concerns for this location or surrounding area." The City of Saginaw Fire Department responded that no incident reports have

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been documented since 2000, no records of underground tanks exist, and no inspections have been conducted for the area of the Site. The Michigan Bureau of Construction Codes and Fire Safety responded that their agency has no jurisdiction over USTs or ASTs, and that the hazardous materials transport vehicles and storage facilities program was transferred from the State Fire Marshall to the MDEQ Waste and Hazardous Materials Division in 1997. The MDEQ Water Bureau, WHMD, and AQD responded that no files were available for the Site address. A response has not been received to date from the MDEQ RRD or the City Assessor's office.

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Sep 10, 2009 17:01

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3.0 SITE INSPECTION

On April 17, 2006, Martha Darnton and Michael Tomka of CRA completed a Site inspection of the 3.77-acre property that comprises a former warehouse located at 700 Garey Street in Saginaw, Saginaw County, Michigan. The Site inspection included an inspection of the Site, review of relevant Site records available to CRA, visual observations of adjacent properties as viewed from the Site and surrounding roadways, and interviews with individuals associated with the Site. CRA was unaccompanied during the Site inspection. Other personnel knowledgeable about the Site's current operations were not available; however, the historic Site file maintained by the GM Saginaw Steering Gear Plant was provided to CRA by Mr. Bill Willard of Delphi Corporation.

3.1 SITE OVERVIEW

The Site is located on the south side of Garey Street, east of Jefferson Avenue, in a mixed industrial/residential area in the City of Saginaw. According to on-line property assessment information available on the City of Saginaw's web site, the Site is 3.77 acres in size and is zoned industrial. The Site is currently vacant and grass-covered with some bare ground areas, and former driveway aprons on the north and northeast portions of the Site. A former fence line and trees/bushes are present along the southeast property line, parallel to the adjacent railroad tracks. Minimal amounts of rubbish and household waste were observed in the vegetated area, in addition to an area where shingles appear to have been dumped. Rubbish appeared to be surficial in nature. Storm sewer manholes are present on the western portion of the Site, closest to the vacated right-of-way that was formerly Owen Street.

Based on a review of information contained in the Title Search report, Howard Street and Owen Streets between Morse Street and the south right-of-way were vacated by the Saginaw City Council for manufacturing development between 1915 and 1919. Based on information from the City Directory search, the Sanborn Maps reviewed, and the 1940 Site map contained in the GM Saginaw Steering Gear file for the Site, Nelson Brothers Company, a manufacturer of gasoline engines, occupied the Site from at least 1924 through 1940. Historical information also reveals Site occupation by Howard Industries and Palace Corp, (automobile trailer and/or portable buildings manufacturers).

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Leasing documentation contained in the GM Saginaw Steering Gear file for the Site indicates that GM began leasing the Site from Lydia M. Doss in 1945. Sanborn Maps and city directories also reveal that Sears & Roebuck Co. used the Site from as early as 1950 through 1969 for a warehouse. GM Saginaw Steering Gear file information regarding Site leases indicates that these entities subleased the property from GM. Several other occupants subleased the Site from GM, including the United States Navy, Baker Perkins, Kochton Corp, and General Electric. GM purchased the Site from Lydia Doss in February 1979. Many of the aforementioned entities continued leasing from GM until building demolition.

Based on a review of previous documentation from the Site file maintained by GM Saginaw Steering Gear personnel, the Site was demolished sometime during 1988. The 1984 purchase order for Site demolition required that the Site building be razed to one foot below existing grade, that all utilities be capped at the main and removed, and that all machine foundations and pits be removed to 12 inches below grade. No further documentation was available regarding building demolition.

A Site plan is provided as Figure 2. Copies of photographs of the Site are included in Appendix H.

3.2 ENVIRONMENTAL SETTING

The Site is located in an area of mixed industrial and residential land uses in the south central portion of the City of Saginaw. The general area of the Site is flat, as are surrounding properties. A active rail line borders the Site to the south. Based on a review of the USGS topographic map containing the Site, the surface elevation of the Site is estimated to be near 610 feet above mean sea level (AMSL).

The Site is bordered by the following:

- vacated Owen Street right-of-way, Wolverine Pattern & Machine, a vacant building, and an electrical substation and beyond by South Jefferson Avenue and the City of Saginaw maintenance garage to the west;
- an active railroad track and a vacant lot, with industrial and warehousing properties beyond to the south;

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- Brown Street and beyond by residential homes to the east; and
- Garey Street and beyond by residential homes to the north.

Based on the 1969 Sanborn map reviewed, one of the occupants of the property west of the Site that fronts along South Jefferson Avenue was identified as "Dry Cleaning" (closest to the railroad tracks). No further information was available regarding the adjacent dry cleaning operations.

No surface water bodies are located on Site or were visible from the Site during the inspection. Based on the topographic map containing the Site, the nearest surface water bodies appear to be Lake Linton and the Saginaw River, located approximately one mile west of the Site. Stormwater runoff from the Site infiltrates the grass-covered surface or intercepts storm sewer manholes along the vacated Owen Street right-of-way and along Garey Street. Storm and sanitary sewers in the City of Saginaw are combined; therefore, stormwater discharges are treated by the Saginaw Wastewater Treatment Plant at their publicly-owned treatment works (POTW).

Soil boring logs prepared by SME in 1988 reveal that fill soils were encountered from the ground surface to an approximate depth of 2.5 feet bgs across the Site, and included foundry sand and foundry sand debris. Beneath this interval, soil types were described as clay with varying sand content. Based on SME's boring logs, soil borings were not advanced deeper than 10 feet bgs, and groundwater was not encountered during drilling. No Site-specific information regarding depth to groundwater or flow direction was available.

3.3 UTILITY SERVICES

Potable water is not currently provided to the Site; however it was historically provided and is available for a future occupant by the City of Saginaw municipal distribution system. Combined sanitary and storm sewer service is also provided to the Site by the City of Saginaw. According to information reviewed, no known water supply wells, septic tanks or leach fields were historically present at the Site. No evidence of any water supply wells, septic tanks, or leach fields was observed by CRA during the Site inspection. No wastewater is currently generated at the Site.

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No natural gas or electricity is currently provided to the Site; however both are available in the area from Consumers Energy. No transformers were observed at the Site during the inspection. However, based on the 1940 Site map of the Site provided for review, a "transformer house" was formerly present in the building along the east side of the middle courtyard. No further information was available regarding Site transformers.

3.4 UNDERGROUND STORAGE TANKS (USTs)

No evidence (i.e.: fill pipes, vents, etc.) of current UST use was observed by CRA during the Site inspection. The Site is not listed in the UST or LUST databases as having USTs or releases therefrom.

Based on historic Site maps reviewed, one 800-gallon gasoline UST was present near the northwest corner of the building possibly within the Owen Street right-of-way, and one 1,000-gallon fuel oil UST was present in the northern portion of the middle courtyard, associated with past gasoline engine manufacturing. Based on information obtained from MDEQ files through a Freedom of Information Act Request, one "small tank of unknown use" that was 44 inches in diameter and 12 feet long was removed from the Site on October 18, 1988. Based on the listed dimensions, the tank would have had an estimated capacity of 300 gallons. Notes in the MDEQ file from the tank removal state that no water was present in the tank excavation, clay soils were visible, and that strong petroleum odor was evident. Water was present in the tank before removal. Finally, the notes indicate that six samples were collected from the excavation, including one from each side and two from the bottom. The file notes do not indicate the location of the other two soil samples, whether soil was excavated, or what the condition or construction of the tank was. No further information was available regarding sample analytical results.

3.5 ABOVEGROUND STORAGE TANKS (ASTs)

No current ASTs or physical evidence of any former AST use (e.g. foundations, pipes, etc.) were observed at the Site during the Site inspection. Based on the June 1940 Site map, one 1,000-gallon fuel oil AST was depicted outside the northeast corner of the Site building. No further information was available regarding the historic presence or use of ASTs at the Site.

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3.6 RAW MATERIAL AND CHEMICAL USAGE AND STORAGE

Based on CRA observations during the Site inspection, no raw materials or chemicals are currently used or stored at the Site. Based on the nature of historical operations conducted at the Site, it is likely that chemicals were historically used and stored at the Site for use in production of finished goods. Sanborn maps reviewed indicate coal, pig iron, coke, flasks, and scrap steel were stored outside during the Site's use as a gasoline engine manufacturer. No other information was available regarding historic chemical use and storage.

3.7 SOLID WASTES

Based on CRA observations during the Site inspection, no solid or special waste is currently generated at the Site. Various types of surficial debris (bottles, cans, plastic containers, general refuse, etc.) were observed by CRA near the vegetated area and a small pile of asphalt shingles was observed in the center portion of the Site during the Site inspection. The nature and composition of the debris at the Site appeared to primarily consist of non-hazardous refuse and be surficial in nature. Some areas of bare ground are present; however, the reason could not be determined. The 1984 GM purchase order for demolition at the Site specified that the building be demolished to one foot below existing grade and that all machine foundations and pits were to be removed to 12" below the floor. No documentation of demolition activities was available for review. No surficial evidence of on-Site solid waste disposal was observed by CRA during the Site inspection.

3.8 HAZARDOUS WASTE

Based on CRA observations during the Site inspection, no hazardous waste is currently generated, stored, treated, or disposed at the Site. No information was available regarding potential previous hazardous waste generation at the former gasoline engine manufacturing facility or during other uses of the Site. The Site was not listed in the database search as a hazardous waste generator or facility.

Based on documentation reviewed, potentially hazardous wastes would have been previously generated at the Site associated with the machining, painting/spraying,

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dipping, and acetylene generation processes depicted on the Sanborn maps and the 1940 Site map. No further information was available regarding historical hazardous waste generation, storage, treatment, or disposal at the Site.

3.9 WASTEWATER

Based on CRA observations during the Site inspection, no wastewater is currently generated at the Site. The City of Saginaw provides combined municipal sewer service in the vicinity of the Site. Previous Site maps depict restrooms within the Site building, and identify cooling operations associated with the Site's foundry. CRA did not observe evidence of a septic system during the Site inspection and no indications of on-Site wastewater disposal were depicted on the available Site maps and historic Sanborn maps reviewed.

3.10 STORMWATER

Based on CRA's observations during the Site inspection, stormwater primarily infiltrates the Site grass surface or flows via sheetflow to on-Site storm sewer manholes. No point source stormwater discharges currently exist at the Site.

3.11 AIR EMISSIONS

CRA did not observe any air emission sources at the Site during the Site inspection. Based on previous Site maps reviewed, boilers and ovens were utilized during manufacturing and foundry operations. No other information regarding historical air emissions at the Site was available.

3.12 ASBESTOS CONTAINING MATERIALS (ACM)

An ACM survey was not conducted as part of this Phase I ESA. The Site is vacant and no structures are present. CRA did not observe any potential ACM at the Site during the Site inspection.

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3.13 POLYCHLORINATED BIPHENYLS (PCBs)

No transformers or other equipment potentially containing PCBs were observed by CRA during the Site inspection. Transformers are identified in the middle courtyard area of the Site on the 1940 and 1951 Site maps. No information was available regarding the number, type, or potential PCB content of the transformers. Further, hydraulic machinery may have been used at the Site associated with manufacturing or shipping. According to Site personnel, PCB-containing equipment was formerly stored outside of the Site building. The type of equipment, storage methodology, and/or length of time for storage was not known.

Soil samples collected by SME from soil borings advanced at the Site did not reveal concentrations of PCBs (Aroclors 1242, 1254, and 1260) above laboratory detection limits; however, soil borings were not advanced in areas where transformers were depicted on historic Site maps.

3.14 IONIZING RADIATION

No labeled radioactive sources were observed by CRA during the Site inspection.

No information was available regarding any radon gas testing having been conducted at the Site. The U.S. EPA has listed Saginaw County to be in a Level 3 Radon Zone with indoor screening concentrations of radon anticipated to be less than 2 picoCuries per Liter (pCi/L). The U.S. EPA recommended action level for radon gas is 4 pCi/L. No basements or below grade structures are known to be present at the Site.

3.15 SPILLS/RELEASES

CRA did not observe any surface staining or other evidence of chemical releases within or around the Site during the Site inspection, with the exception of some bare areas in the grass cover. The reason for the bare areas could not be determined.

Available historic information reviewed for the Site did not reveal documentation of potentially significant spills or releases of oils, chemicals, or other hazardous constituents having occurred at the Site, with the exception of petroleum odors noted by MDEQ personnel during removal of a UST from the Site in October 1988. Confirmatory

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soil samples were reportedly collected from the tank excavation sidewalls and bottom; however, neither sample locations nor laboratory analytical results were available. No other information regarding historical spills or releases at the Site was available. The Site was not listed in the ERNS.

3.16 CERCLA LIABILITY

The Site is not listed on the NPL. According to Site personnel, the Site has not received notification from any government agency or third party of liability as a potential responsible party for any hazardous waste storage, treatment, or disposal Site. According to Site personnel, the Site has not defended any other environmental-related claims or litigation asserted by any governmental agency or third party and no potential claims or litigation presently exists. The Site was not listed in the State Hazardous Waste Sites List.

**3.17 SARA TITLE III - EMERGENCY PLANNING
AND COMMUNITY RIGHT-TO-KNOW ACT (EPCRA)**

No chemical storage or use activities are currently conducted at the Site; therefore, the Site is not subject to emergency planning and reporting obligations under EPCRA. The Site was not listed in the TRIS database based on the results of the database search.

3.18 WORKER RIGHT-TO-KNOW (WRTK)

The Site is unoccupied; therefore, WRTK regulations pursuant to 29 CFR 1910.1200 are not applicable.

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4.0 SUMMARY OF IDENTIFIED ENVIRONMENTAL ISSUES

4.1 FINDINGS

Based on the Phase I ESA including the Site inspection, database search, historic records reviewed, information provided by Site personnel, and interviews, the following potential recognized environmental conditions (RECs) as defined in ASTM Standard E1527-00, were identified at the Site:

4.1.1 POTENTIAL CURRENT RECOGNIZED ENVIRONMENTAL CONDITIONS

The following potential current RECs were identified at the Site:

- i) **Former USTs:** Based on a review of historic Site maps, one 800-gallon gasoline UST was present near the northwest corner of the building possibly within the Owen Street right-of-way, and one 1,000-gallon fuel oil UST was present in the northern portion of the middle courtyard, associated with past gasoline engine manufacturing. Information obtained from MDEQ files through a FOIA request revealed that one UST measuring 44 inches in diameter and 12 feet long was removed from the Site on October 18, 1988. Based on the listed dimensions, the tank would have had an estimated capacity of 300 gallons. Notes in the MDEQ file from the tank removal state that no water was present in the tank excavation, clay soils were visible, and that strong petroleum odor was evident. Water was present in the tank before removal. Finally, the notes indicate that a total of six samples were collected from the excavation, including one from each side and two from the bottom. The file notes do not indicate the location of the other two soil samples, whether soil was excavated, or what the condition or construction of the tank was. No further information was available regarding sample analytical results. Potential impacts to Site soils and/or groundwater from the USTs could not be determined.
- ii) **Former AST:** Based on the June 1940 Site map, one 1,000-gallon fuel oil AST was depicted outside the northeast corner of the Site building. No further information was available regarding the historic presence, use, or secondary containment of ASTs at the Site. Potential impacts to Site soils and/or groundwater could not be determined.

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- iii) **Former Gasoline Engine Manufacturing Operations:** Based on information from the City Directory search, the Sanborn Maps reviewed, and the 1940 Site map contained in the GM Saginaw Steering Gear file for the Site, Nelson Brothers Company, a manufacturer of gasoline engines, occupied the Site from at least 1924 through 1940. Historical information also reveals Site occupation by Howard Industries and Palace Corp, (automobile trailer and/or portable buildings manufacturers). Based on documentation reviewed, hazardous wastes would have potentially been previously generated at the Site associated with the manufacturing operations, including machining, painting/spraying, dipping, and acetylene generation processes (as depicted on the Sanborn maps and the 1940 Site map). The 1940 Site map illustrates portions of the Site building used as a foundry and cooling shed with earthen floors. Transformers are identified in the middle courtyard area of the Site on the 1940 and 1951 Site maps. Further, hydraulic machinery may have been used at the Site associated with manufacturing or shipping. According to Site personnel, PCB-containing equipment was formerly stored outside of the Site building. Laboratory analysis of soil samples collected from the Site by SME in 1988 indicated that concentrations of several metals were present at the Site in excess of current Part 201 generic residential criteria, including lead above DWPC and DCC in the samples collected from 0 to 2 feet bgs in borings B-3 and B-5, respectively.
- iv) **Former Outside Material Storage:** A coal pile is shown outside the south end of the building adjacent to the railroad tracks in the 1940 Site map. The portion of the Site east of the building appears to have been utilized for storage of fire bricks, pig iron, coke piles, a flask yard, scrap steel area, and other storage. Historic photographs contained in the GM Saginaw Steering Gear file reveal the presence of several unidentifiable materials and containers stored in the exterior portions of the Site, east of the Site building. Potential impacts to Site soils and/or groundwater could not be determined.
- v) **Potential Subsurface Demolition Debris:** The 1984 GM purchase order for demolition at the Site specified that the building be demolished to one foot below existing grade and that all machine foundations and pits were to be removed to 12" below the floor. No documentation of demolition activities was available for review. A Site map contained in documentation of soil borings advanced at the Site in 1988 still depict the Site building. Potential impacts to the Site's subsurface could not be determined.

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- vi) **Adjacent Historical Dry Cleaning Operations:** Based on a review of the 1969 Sanborn Map, the adjacent property southwest of the Site was identified as "Dry Cleaning." No further information was available regarding this adjacent property use. Currently, this adjacent property is occupied by a vacant building and an electrical substation. Potential subsurface impacts at the Site from adjacent historical dry cleaning operations could not be determined.

4.1.2 POTENTIAL HISTORIC RECOGNIZED ENVIRONMENTAL CONDITIONS

No potential historic RECs were identified at the Site.

4.2 CONCLUSIONS

CRA has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-00 of the former industrial and warehouse property located at 700 Garey Street in Saginaw, Michigan. Any exceptions to, or deletions from this practice are described in Section 1.0 of this report. This assessment has revealed no evidence of recognized environmental conditions at this Site with the exception of the following:

- **Former USTs**
- **Former AST**
- **Former Gasoline Engine Manufacturing Operations**
- **Former Outside Material Storage**
- **Potential Subsurface Demolition Debris**
- **Adjacent Historical Dry Cleaning Operations**

4.3 OTHER POTENTIAL ENVIRONMENTAL ISSUES

In addition to the Recognized Environmental Conditions identified at the Site, the following items were identified with regard to potential environmental compliance and good environmental management practices associated with the Site:

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- i) **Surficial Debris:** Surficial debris and general refuse, including bottles, cans, plastic containers, and a small pile of asphalt shingles were observed during the Site inspection. The nature and composition of the debris at the Site appeared to primarily consist of non-hazardous refuse and be surficial in nature.

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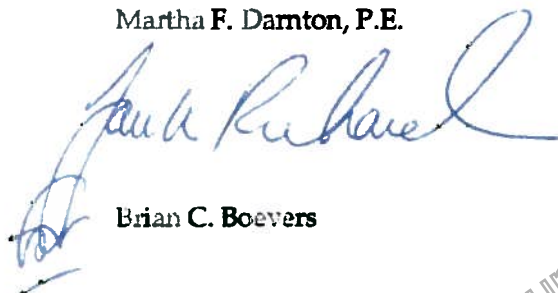
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All of Which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

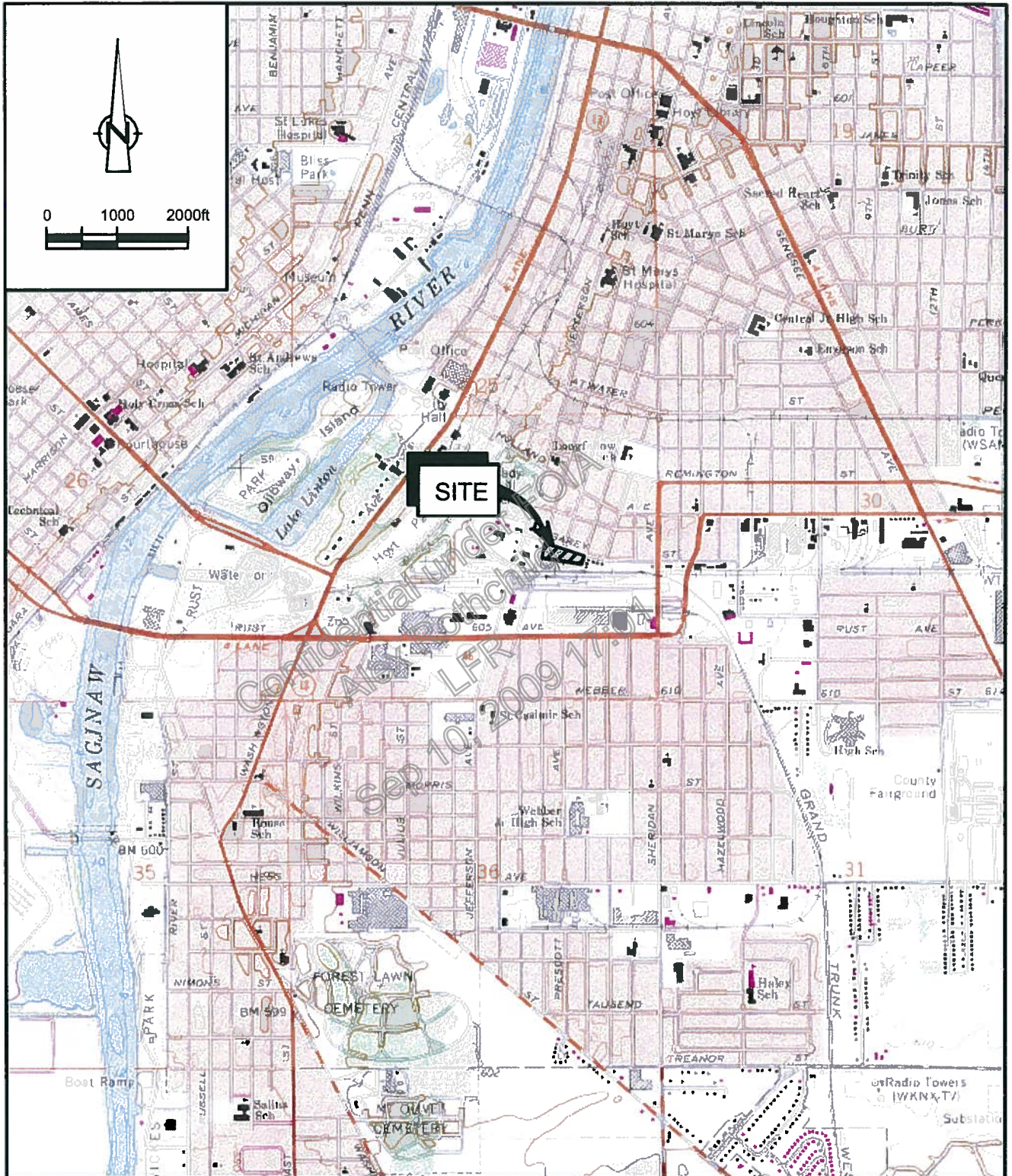


Martha F. Darnton, P.E.



Brian C. Boevers

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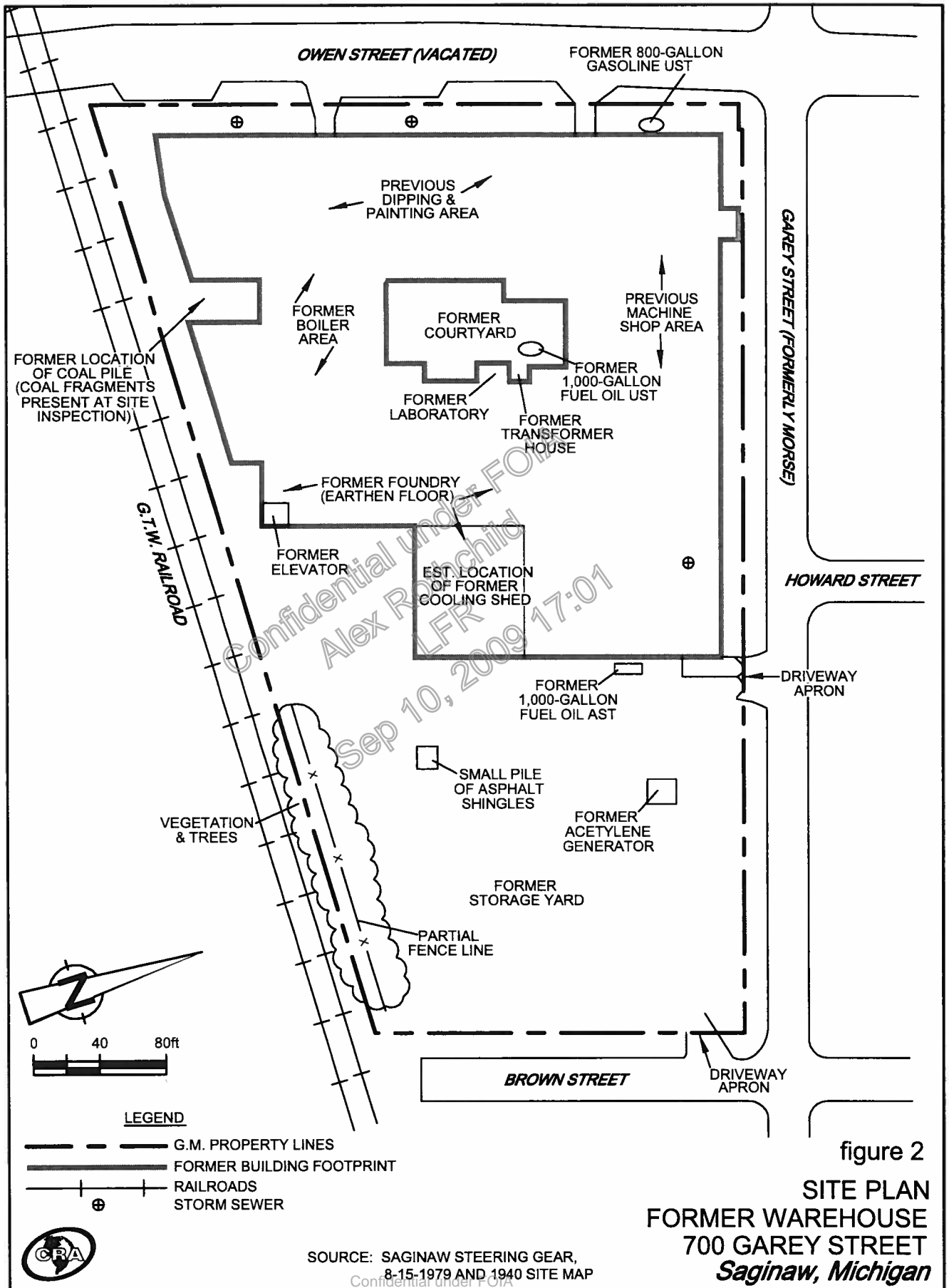


SOURCE: USGS QUADRANGLE MAP;
SAGINAW, MICHIGAN



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figure 1
SITE LOCATION
FORMER WAREHOUSE
700 GAREY STREET
Saginaw, Michigan



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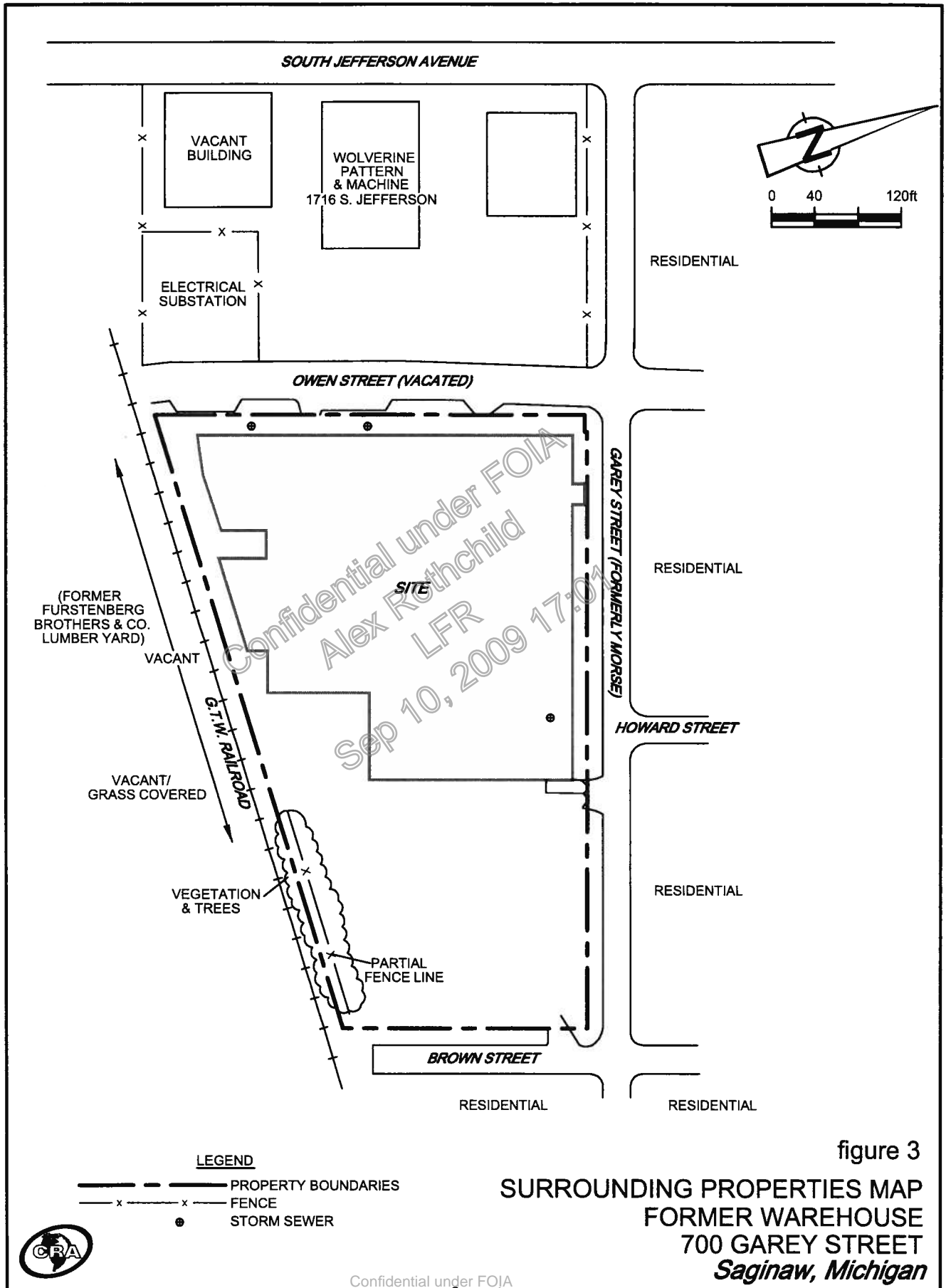


figure 3

**SURROUNDING PROPERTIES MAP
FORMER WAREHOUSE
700 GAREY STREET
Saginaw, Michigan**

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APPENDIX A

CURRICULA VITAE

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MARTHA F. DARNTON, P.E.

EDUCATION

B.S. Michigan Technological University, Environmental Engineering, Cum Laude, Fall 1995

Other

Courses: 40-Hour OSHA Health and Safety Training, as per 19 CFR 1910.120, 1996
8-Hour OSHA Health and Safety Refresher Training, yearly, as required
Training for Hazardous Materials Transportation, Including RCRA Waste Manifesting
Due Diligence at Dawn Seminar, EDR, April 2005
CRA Phase I ESA and Project Management Training, 2004
Federation of Environmental Technologists, "Environment 2001", 2001
Brownfields 2001 Conference, Chicago, 2001
Principles and Practices of Project Management, University of Wisconsin Extension, 1999
Fifth Annual Wisconsin Water Law Conference, 1998

EMPLOYMENT

2005- Present Project Manager/Coordinator/Engineer
Conestoga-Rovers & Associates, Lansing, Michigan
2003-05 Project Manager/Coordinator/Engineer, Conestoga-Rovers & Associates,
Plymouth, Michigan
2000-03 Project Manager/Environmental Engineer, OMNNI Associates, Inc., Appleton, Wisconsin
1996-00 Environmental Engineer, Northern Environmental Technologies, Inc., Green Bay, Wisconsin

AFFILIATIONS

Licensed Professional Engineer - State of Michigan (I.D. No. 6201049701)
Licensed Professional Engineer - State of Wisconsin (License No. 34327-006)
Associate Environmental Engineer, American Academy of Environmental Engineers
Member, National Society of Professional Engineers (NSPE) and Michigan Society of Professional
Engineers (MSPE)
Member, Water Environment Federation
Member, Michigan Association of Environmental Professionals
Volunteer for Local Schools' Engineering Projects, Career Presentations, and/or Job Shadowing;
Ashwaubenon, Neenah, and Oshkosh, Wisconsin

PROFILE OF PROFESSIONAL ACTIVITIES

MANAGEMENT AND COORDINATION OF DUE DILIGENCE ACTIVITIES FOR AUTOMOTIVE DEALERSHIP PROPERTIES ACROSS THE UNITED STATES

Project coordinator/manager for Phase I through Phase IV activities for various automotive dealerships and vacant commercial and industrial properties in all 50 states, requiring review and application of federal, state, and local regulations to specific properties and facilities. Includes Phase I ESAs, Phase II ESAs, hazardous materials inventories, extent of contamination studies, oil-water separator inspections and removals, in-ground and above-ground hydraulic lift draining and decommissioning, mold inspections and remediation, and asbestos and lead paint surveys. Involves frequent regulatory agency interaction, staff supervision in other CRA offices, and client reporting, often on rushed timeframes to accommodate property transactions.

Environmental Investigations Under Michigan Act 451

Tasks included direction of soil, groundwater, and surface water sampling; data collection/interpretation; project QA/QC; project safety; oversight and assignment of tasks to junior staff; preparation of contract documents, work plans, cost estimates, environmental reports, health and safety plans, and proposals for professional services; client and regulatory agency contact and meetings; and review/approval of subcontractor submittals:

- State Psychiatric Hospital Site – Northville Township, Michigan
- Former Airport Site - Macomb Township, Michigan
- Various Parcels, including former manufacturing facility, former plastics injection molding facility, and a chocolate factory - Rochester Hills, Michigan
- Various other private industrial/commercial sites in Michigan
- Category N BEA for disclosure for former chocolate factory - Rochester Hills, Michigan
- Category N BEA for disclosure for former plastics injection molding facility - Rochester Hills, Michigan
- Category S BEA for disclosure for vacant property (former industrial site) – Rochester Hills, Michigan
- UST Closure Assessment, former airport site – Macomb Township, Michigan
- Project Coordinator of the development of a Due Care Plan for a automobile engine manufacturing facility located in Detroit/Redford Township, Michigan

Miscellaneous Project Support

- Including preparation of PowerPoint presentations, Notice of Migration letters, proposals for surveying services and environmental investigations, and technical memorandums
- Project coordinator for automotive parts manufacturing facility in Detroit, Michigan; responsible for conference call agendas, preparing technical memorandums, staff coordination and assignment for sampling and inspection tasks, preparation of quarterly reports to U.S. EPA, assisted in preparation of Corrective Measures Proposal, prepared estimates for groundwater treatment prior to POTW discharge, prepared estimates for potassium permanganate injection, frequent interaction with owners of private properties (neighbors) to facility, etc.

Phase III Environmental Site Assessments

- Conducted Phase I and II Environmental Site Assessments in support of property transactions at the following types of properties:
 - Three Active Steel Forging and Finishing Facilities, Redford Township, Michigan
 - Former Grocery Warehouse/Distribution Facility, Holt, Michigan
 - Fuel Filler Tube Manufacturing and Assembly Plant, Detroit, Michigan
 - Active Automotive Cockpit Assembly Facilities, Lansing, Michigan and Kansas City, Missouri
 - Active Distribution Center/Warehouse, Silver and China Company, Hagerstown, Maryland
 - Former Automotive Proving Grounds and Test Facility, Shelby Township, Michigan
 - Former Furniture Warehouse/Distribution Facility, Toledo, Ohio
 - Casino Property, Downtown Detroit, Michigan
 - Former Structural Steel Manufacturing Facility, Redford, Michigan
 - Apartment Complexes in Dearborn Heights, Northville, Canton, Saginaw, Mt. Pleasant, and Harbor Beach, Michigan
 - Automotive parts warehouse, Memphis, Tennessee
 - Auto body shop and auto transport business, Menasha, Wisconsin
 - Truck leasing companies, Appleton and Stevens Point, Wisconsin
 - Numerous gasoline stations/auto repair facilities throughout Wisconsin
 - Several former and active dry cleaners throughout Wisconsin
 - Several vacant parcels to be developed for residential, commercial, or industrial uses in Wisconsin and Michigan
 - Former battery-making plant, Appleton, Wisconsin
 - Active and former dairy farms throughout Wisconsin
 - Three 100-year old commercial properties, Downtown Neenah, Wisconsin
 - 100-year old commercial property, Downtown Antigo, Wisconsin
 - 100-year old commercial property, College Avenue, Downtown Appleton, Wisconsin
 - Diaper manufacturing plant, Oconto Falls, Wisconsin

***SANITARY SEWER LATERAL DESIGN AND PROJECT MANAGEMENT,
INDUSTRIAL EQUIPMENT SITE, MT. MORRIS, MICHIGAN***

***Environmental Investigations and Remediations Under the Chapter NR 700 Series and Chapters
COMM 46-47, Wisconsin Administrative Code***

- Project Manager and technical/field staff for investigation and remediation of subsurface organic and inorganic compound releases (petroleum, agricultural chemicals, chlorinated solvents, nitrogen compounds, and metals) at various contaminated sites including private residences and farms, small and large gasoline stations/automotive repair facilities, petroleum bulk storage facilities, former agricultural product storage facilities, manufacturing plants, and Indian reservation lands:
 - Soil boring and monitoring well installation, including geologic characterization of soils
 - Soil, groundwater, and air sampling
 - Documentation of remedial excavations and contractor oversight

- Data collection/interpretation and risk-based criteria evaluations
- Project QA/QC and project safety
- Preparation of contract documents
- Preparation of Engineer's Estimate of Probable Costs
- Client, financial institution, WDNR, and WDCOMM regulatory correspondence
- Technical report writing, including health and safety plans, work plans, site investigations, remedial action plans, documentation of remedial action and monitoring, UST closure assessments, site closure assessments
- Preparation/processing of professional services invoices for consulting fees, budget tracking (internal and regulatory)
- Review/approval of contractor invoices and commodity services
- Preparation and submittal of client's reimbursement claims under Wisconsin's Petroleum Environmental Cleanup Fund Act (PECFA)

Coordinated and Authored Proposals and Cost Estimates for Municipal or State-Funded Environmental Investigation and Remediation Projects

- Active dry cleaning businesses, Neenah and Oshkosh, Wisconsin
- Former paper company storage/foundry property, Fox River, Appleton, Wisconsin
- Corridor study for PCE contamination, Highway 17, Rhinelander, Wisconsin

Municipal Utility Inspection and Construction Documentation

- College Avenue Reconstruction and Streetscape, Downtown Appleton, Wisconsin:
 - 8-month field assignment included inspection and documentation of over 10,000 feet of new water main, storm sewer main and laterals, and sanitary sewer main and laterals
 - Compiled record drawings for water main
 - Inspected and compiled records for reconstruction and reconnection of over 100 water services to businesses on College Avenue
 - Constant contractor/business/public/municipal interaction
 - Inspected and documented concrete pavement, new street lighting, colored and stamped concrete sidewalks and crosswalks, and other streetscape amenities
 - Coordinated and conducted all environmental sampling when contaminated soils were encountered during utility and roadway reconstruction
 - Updated construction web site and attended weekly public information meetings
 - Verified quantities for payment, including all utility change orders
 - Supervised of five utility crews working simultaneously
- Southwest Business Park, Grand Chute, Wisconsin:
 - Inspected all new watermain, sanitary sewer, storm sewer, and all laterals construction in new industrial park development; including wetland crossing
 - Documented grading and surface preparation for pavement
 - Supervised two utility crews and one grading crew
 - Prepared as-built plans for Town of Grand Chute

MARTHA F. DARNTON

- Prepared weekly updates to developer, Town of Grand Chute, and contractor
- Verified quantities for payment, including all utility change orders
- Forest County Potawatomi Indian Reservation, Carter and Crandon, Wisconsin:
 - Inspected and documented renovations to an active 4.5 MGD wastewater treatment lagoon system, including replacement of riprap, and gate valve repair
 - Identified and documented nitrogen-impacted soils for removal and off-site disposal (from previous release of raw wastewater to surface)
 - Recorded groundwater elevations in monitoring wells installed to define the extent of nitrates in groundwater
 - Involved in groundwater monitoring program for nitrates at other reservation locations
 - Assisted utility operator with NPDES permit renewal and upgrades to a separate recirculating sand filter

Site Engineering and Design

- Grading plan, design of interceptor storm sewer for expansion of anchor store at the Fox River Mall, Grand Chute, Wisconsin
- Grading plan, storm sewer design, and design of replacement floodplain for a senior housing facility in Oshkosh, Wisconsin

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LFR
Sep 10, 2009 17:01

BRIAN C. BOEVERS, B.S., M.B.A.

EDUCATION

B.S. St. John's University, Collegeville, Minnesota, 1977, Cum Laude
M.B.A. College of St. Thomas, St. Paul, Minnesota, 1986

EMPLOYMENT

1995 - Present Principal, Minnesota Branch Manager
Conestoga-Rovers & Associates
1993-95 Associate, Minnesota Branch Manager
Conestoga-Rovers & Associates
1988-92 Project Manager, Minnesota Branch Manager, Conestoga-Rovers & Associates
1985-88 Remedial Project Manager, Honeywell Defense Systems Group
1983-85 Senior Environmental Engineer, Honeywell Defense Systems Division
1981-83 Environmental Engineer, Honeywell Defense Systems Division
1979-81 Project Manager, U.S. Army Toxic and Hazardous Materials Agency
1978-79 Chemical Staff Officer, Department of the Army, Project Manager for Chemical
Demilitarization and Installation Restoration
1977-78 Ordnance Officer, Munitions Materiel Management, U.S. Army

PROFILE OF PROFESSIONAL ACTIVITIES

Remedial Investigations/Site Investigations/RCRA Facility Investigations and Feasibility Studies

- Served as Project Manager for all aspects from work plan development through final report preparation for investigation of the following facilities:
 - Electronic component manufacturing plant - New Brighton, Minnesota (NPL site)
 - Metal parts manufacturing plant - New Brighton, Minnesota (NPL site)
 - Engineering and testing facility - Anoka County, Minnesota
 - Precision metals fabricating plant - Niles, Michigan
 - Tennessee chemical company plant - Copperhill, Tennessee
 - Demolition landfill - New Brighton, Minnesota
 - Private dump - New Brighton, Minnesota
 - Trio solvents plant - New Brighton, Minnesota
 - Sporting goods manufacturing facility - Tennessee
 - Vehicle maintenance facility - Minnesota
 - Metal parts manufacturing facilities - Germany, Czech Republic, England
 - Electro-mechanical components facility - New York
 - Industrial landfills - Michigan, Texas

BRIAN C. BOEVERS

- Served as Project Manager for all aspects of remedial investigations at propellant and explosives manufacturing and loading plants. The specific areas of investigation included explosive and propellant manufacture, explosive loading, red and pink water disposal, detonation sites, and explosives burning at the following plants:
 - Joliet Army Ammunition Plant - Elwood, Illinois (NPL site)
 - Iowa Army Ammunition Plant - Burlington, Iowa
 - Badger Army Ammunition Plant - Baraboo, Wisconsin
 - Louisiana Army Ammunition Plant - Doyline, Louisiana (NPL site)
 - Cornhusker Army Ammunition Plant - Grand Island, Nebraska (NPL site)
 - Twin Cities Army Ammunition Plant - New Brighton, Minnesota (NPL site)

Environmental Assessments/Audits

- Performed environmental assessments for acquisition, secured financing or compliance at the following facilities:
 - Electronic component manufacturing facilities - Minnesota, Pennsylvania
 - Explosive loading plants - Illinois, Iowa, Tennessee, Arkansas
 - Solid fiberboard and paper mills - California, Vermont, Michigan, Minnesota, Illinois, Missouri
 - Metals fabrication and die casting plants - Illinois, North Carolina
 - Metals fabrication facilities - Ohio, South Carolina, Illinois, Brazil, Germany, England, Czech Republic, Missouri, Nevada, New York, Indiana
 - Chemical formulation plants - Illinois, England, Ireland
 - Manufacturing and warehouse facilities - Illinois, Indiana, Wisconsin, Georgia, Texas, Pennsylvania, California
 - Food production, processing, and packaging plants - Indiana, Louisiana, Minnesota, Ohio, New York, California, Illinois
 - Construction equipment maintenance facilities - Georgia, Minnesota, Washington, Illinois
 - Industrial equipment manufacturing facilities - Ohio
 - Soft drink bottling plants - Arkansas, North Carolina, South Carolina, Tennessee, Belgium
 - Soft drink distribution facilities - Arkansas, North Carolina, South Carolina, Tennessee, Texas, Belgium
 - Heavy equipment manufacturing plants - Illinois, Wisconsin, Indiana
 - Commercial munitions, production and testing facilities - Ohio, Pennsylvania, Florida, New Mexico, Tennessee
 - Medical equipment manufacturing facilities - Connecticut, Puerto Rico
 - Cement plants - Iowa, Mississippi, Missouri
 - Precision metals fabrication plants - Michigan, Illinois, Indiana, Pennsylvania
 - Chemical manufacturing plants - Tennessee, Wisconsin
 - Athletic and swimming facilities - Minnesota
 - Waste derived fuel plants - Missouri, Kansas, Indiana, Pennsylvania, Maryland
 - Cabinet manufacturing plants - Texas, Kentucky, Iowa, Minnesota, Ohio
 - Photo processing facilities - Minnesota, Missouri, Netherlands, Kansas

BRIAN C. BOEVERS

- Photographic film manufacturing facilities - United Kingdom, Germany, Switzerland
- Corrugated box plants - South Carolina, Georgia, Alabama, Tennessee
- Fiberboard partition plants - Maine, New Jersey, Wisconsin, Quebec, Iowa, Minnesota, Massachusetts
- Hazardous waste blending facilities - Ohio
- Plastic extrusion and molding plants - Germany, Michigan, Minnesota
- Window and door manufacturing facilities - Wisconsin, Michigan, Iowa
- Furniture manufacturing facilities - North Carolina, Ohio, Pennsylvania, Virginia
- Foundries - Michigan, Illinois, Ohio, Pennsylvania, Tennessee, Mexico
- Photographic chemical and plate manufacturing - Germany, Switzerland, England
- Chemical processing facilities - United States, Australia, Korea, Japan

Remedial Designs or Remedial Construction Supervision

- Served as Project Manager for the design and/or construction of the following remedial actions:
 - Groundwater collection tile, extraction, and VOC treatment system - (NPL site) New Brighton, Minnesota
 - Extraction well and VOC treatment system - (NPL site) New Brighton, Minnesota
 - 2,900 GPM groundwater extraction, VOC treatment and recharge system - (NPL site) New Brighton, Minnesota
 - Excavation and on-site contained storage of 12,000 tons of PCB contaminated soil - (NPL site) New Brighton, Minnesota
 - Groundwater Extraction and Discharge System - New Brighton, Minnesota
 - Excavation and off-site disposal of metals contaminated soils - New Brighton, Minnesota
 - Decontamination and off-site disposal of PCB equipment and oils - New Brighton, Minnesota
 - Decontamination of PCB contaminated plant areas - Lafayette, Indiana
 - Excavation and off-site disposal of over 100,000 tons of organics contaminated soil (NPL site) - New Jersey
 - Industrial sewer cleaning and sludge handling project involving VOCs, PCBs and metals - (NPL site) New Brighton, Minnesota
 - Excavation and off-site disposal of lead contaminated soils - Minneapolis, Minnesota
 - PCB soil contamination site - Iowa
 - Soil vapor extraction system for VOC removal - Wisconsin
 - Air sparging system for VOC removal - Minnesota
 - VOC air stripping water treatment system - New Jersey
 - Excavation, on-site separation and off-site disposal of contaminated soils - Fridley, Minnesota
 - Soil vapor extraction system for VOC removal - Germany
 - Wastewater lagoon closure - Michigan

BRIAN C. BOEVERS

Environmental Compliance at Industrial Facilities

- Responsible for environmental compliance at multi-facility division of Honeywell, Inc. including:
 - Prepared permit applications for hazardous waste treatment and storage facilities
 - Developed in-plant hazardous waste management procedures for division
 - Developed RCRA training programs for treatment and storage facilities
 - Managed in-house hazardous waste generation, treatment, storage, and disposal program for six manufacturing facilities
 - Developed in-plant spill response procedures for manufacturing facilities
 - Prepared industrial discharge (POTW) permit applications for manufacturing plants and remedial actions
 - Prepared NPDES permits for remedial actions
- Performed multi-media compliance audits at the following types of industrial facilities:
 - Chemical manufacturing, chemical formulation, explosives loading, metal parts manufacturing, primary and secondary steel manufacturing, paper manufacturing, furniture and cabinet manufacturing, and miscellaneous manufacturing

Technical Support for Litigation and Administrative Orders

- Provided the following technical expert services in conjunction with permitting and litigation issues:
 - Assisted PRP at VOC contaminated groundwater site consisting of review and comment on; remedial investigations, feasibility studies, risk assessment, groundwater modeling, records of decision, consent orders - NPL site in Minnesota
 - Assisted PRP at VOC and PCB contaminated site consisting of review and comment on; remedial investigations, feasibility studies, risk assessment and administrative orders - Illinois
 - Assisted PRP group at mixed municipal and demolition landfill consisting of review and comment on; remedial investigation, remedial objectives and remedial cost estimates - NPL site in Minnesota
 - Assisted industrial client in negotiation of administrative and judicial orders for investigation and implementation of corrective actions at a mining and chemical manufacturing facility - Tennessee
 - Assisted township in removing a potential landfill site from final consideration list - Minnesota
 - Assisted PRP group at mixed municipal landfill consisting of RD/RA Scope of Work negotiations, remedial cost estimates, allocation negotiations and mediation - NPL site in Minnesota
 - Assisted industrial clients in negotiation of contribution claims for past releases on property - Iowa, Texas, Tennessee, Minnesota, Wisconsin, Idaho, Pennsylvania, Illinois, Indiana
 - Assisted industrial client with evaluation of compliance and recommended corrective measures in response to potential litigation - Mississippi
 - Technical expert for an industrial client with PCB risk issues from former industrial disposal site under litigation - Michigan
 - Technical expert for industrial client regarding acquisition due diligence

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**APPENDIX B
ENVIRONMENTAL DATABASE SEARCH RESULTS**

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EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**045285 - Saginaw, MI
700 Garey Street
Saginaw, MI 48601**

Inquiry Number: 1656167.2s

April 17, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

700 GAREY STREET
SAGINAW, MI 48601

COORDINATES

Latitude (North): 43.413600 - 43° 24' 49.0"
Longitude (West): 83.942000 - 83° 56' 31.2"
Universal Transverse Mercator: Zone 17
UTM X (Meters): 261804.4
UTM Y (Meters): 4810735.5
Elevation: 608 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 43083-D8 SAGINAW, MI
Most Recent Revision: 1973

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

ERNS.....	Emergency Response Notification System
HMIRS.....	Hazardous Materials Information Reporting System
US ENG CONTROLS.....	Engineering Controls Sites List
US INST CONTROL.....	Sites with Institutional Controls
DOD.....	Department of Defense Sites
FUDS.....	Formerly Used Defense Sites
CONSENT.....	Superfund (CERCLA) Consent Decrees
ROD.....	Records Of Decision
UMTRA.....	Uranium Mill Tailings Sites
ODI.....	Open Dump Inventory
TRIS.....	Toxic Chemical Release Inventory System
TSCA.....	Toxic Substances Control Act
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS.....	Section 7 Tracking Systems
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SWF/LF.....	Solid Waste Facilities Database
HIST LF.....	Inactive Solid Waste Facilities
PEAS.....	Pollution Emergency Alerting System
AUL.....	Engineering and Institutional Controls
DRYCLEANERS.....	Drycleaning Establishments

TRIBAL RECORDS

INDIAN RESERV.....	Indian Reservations
INDIAN UST.....	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

EDR Historical Auto Stations.....	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners.....	EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

FEDERAL RECORDS

RCRAInfo: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System(RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

A review of the RCRA-SQG list, as provided by EDR, and dated 02/24/2006 has revealed that there are 5 RCRA-SQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SAGINAW ELECTRIC	1716 S JEFFERSON	0 - 1/8 W	A1	6
WOLVERINE PATTERN AND MACHINE	1716 S JEFFERSON AVE	0 - 1/8 W	A2	6
CITY OF SAGINAW	1741 S JEFFERSON	0 - 1/8 W	A3	6
CITY OF SAGINAW	HOLLAND & OWEN RD	1/8 - 1/4 NNE	4	7
MEANS INDUSTRIES INC	1811 S JEFFERSON AVE	1/8 - 1/4 SSW	B7	12

US BROWNFIELDS: The EPA's listing of Brownfields properties addressed by Cooperative Agreement Recipients and Brownfields properties addressed by Targeted Brownfields Assessments

A review of the US BROWNFIELDS list, as provided by EDR, and dated 11/29/2005 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
HOME FOR THE AGED	1446 S. WASHINGTON AVE.	1/4 - 1/2 NW	C12	15
CMR	1100 RUST AVENUE	1/4 - 1/2 WSW	E19	23

STATE AND LOCAL RECORDS

SHWS: The State Hazardous Waste Sites records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. The data come from the Department of Environmental Quality's Contaminated Sites List on Diskette With Address.

A review of the SHWS list, as provided by EDR, and dated 02/20/2006 has revealed that there are 5 SHWS sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BOXWOOD ST 1705, SAGINAW Facility Status: Inactive - no actions taken to address contamination	1705 BOXWOOD ST	1/2 - 1 E	20	23
WICKES ENGINEERING Facility Status: Interim Response in progress	1621 E HOLLAND AVE	1/2 - 1 E	F22	23
U.S. GRAPHITE Facility Status: Interim Response in progress	1621 E. HOLLAND	1/2 - 1 E	F23	24

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NAT ASSOC OF PHYSICALLY HANDIC Facility Status: Inactive - no actions taken to address contamination	1151 N. NIAGARA	1/2 - 1 NW	24	24
LUFKIN RULE Facility Status: Interim Response conducted - No further activities anticipated	1730 HESS	1/2 - 1 S	26	25

DEL SHWS: Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does support it's listing or the site no longer meets criteria specified in rules.

A review of the DEL SHWS list, as provided by EDR, and dated 02/27/2006 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>Not reported</i>	2322 GALLAGHER STREET	1/2 - 1 SSE	25	24

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 12/13/2005 has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FISCHER-FLACK, INC Facility Status: Closed	2115 RUST AVE	1/4 - 1/2 SE	8	12
GENE A MIXON Facility Status: Open	1106 E HOLLAND AVE	1/4 - 1/2 ENE	9	12
ACME BLOCK & SUPPLY Facility Status: Closed	1833 SHERIDAN ST	1/4 - 1/2 ESE	10	14

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JEFFERSON OIL CO Facility Status: Closed Facility Status: Closed	1807 S JEFFERSON AVE	1/8 - 1/4 SSW	B6	8
CROSTOWN MARATHON Facility Status: Open Facility Status: Open	306 E REMINGTON ST	1/4 - 1/2 NNW	D14	16
CITY OF SAGINAW/MOTOR EQUIP DI Facility Status: Closed Facility Status: Closed	1435 S WASHINGTON AVE	1/4 - 1/2 NW	C16	19

EXECUTIVE SUMMARY

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the Department of Environmental Quality's Michigan UST database.

A review of the UST list, as provided by EDR, and dated 03/13/2006 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JEFFERSON OIL CO	1807 S JEFFERSON AVE	1/8 - 1/4SSW B6		8

AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources' Michigan AST database.

A review of the AST list, as provided by EDR, and dated 12/13/2005 has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
JEFFERSON OIL CO	1807 S JEFFERSON AVE	1/8 - 1/4SSW B6		8

BROWNFIELDS: Brownfields and USTfield Site Database.

A review of the BROWNFIELDS list, as provided by EDR, and dated 02/23/2006 has revealed that there is 1 BROWNFIELDS site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
306 E. REMINGTON	306 E. REMINGTON	1/4 - 1/2NNW D15		19

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 12/16/2005 has revealed that there are 6 BEA sites within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
Not reported	1800 S. JEFFERSON AVE.	1/8 - 1/4SSW	B5	7
Not reported	1475 S. WASHINGTON AVE.	1/4 - 1/2NW	11	15
Not reported	1446 SOUTH WASHINGTON A	1/4 - 1/2NW	C13	15
306 E. REMINGTON	306 E. REMINGTON	1/4 - 1/2NNW	D15	19
Not reported	1424 S. WASHINGTON AVE.	1/4 - 1/2NW	17	22
Not reported	1100 RUST AVE.	1/4 - 1/2WSW	E18	22

EDR PROPRIETARY RECORDS

EDR Manufactured Gas Plants: The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and

EXECUTIVE SUMMARY

non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

A review of the Manufactured Gas Plants list, as provided by EDR, has revealed that there is 1 Manufactured Gas Plants site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
THE EAST SAGINAW GAS CO	HOLLAND AVE AND WASHING	1/2 - 1 NW	21	23

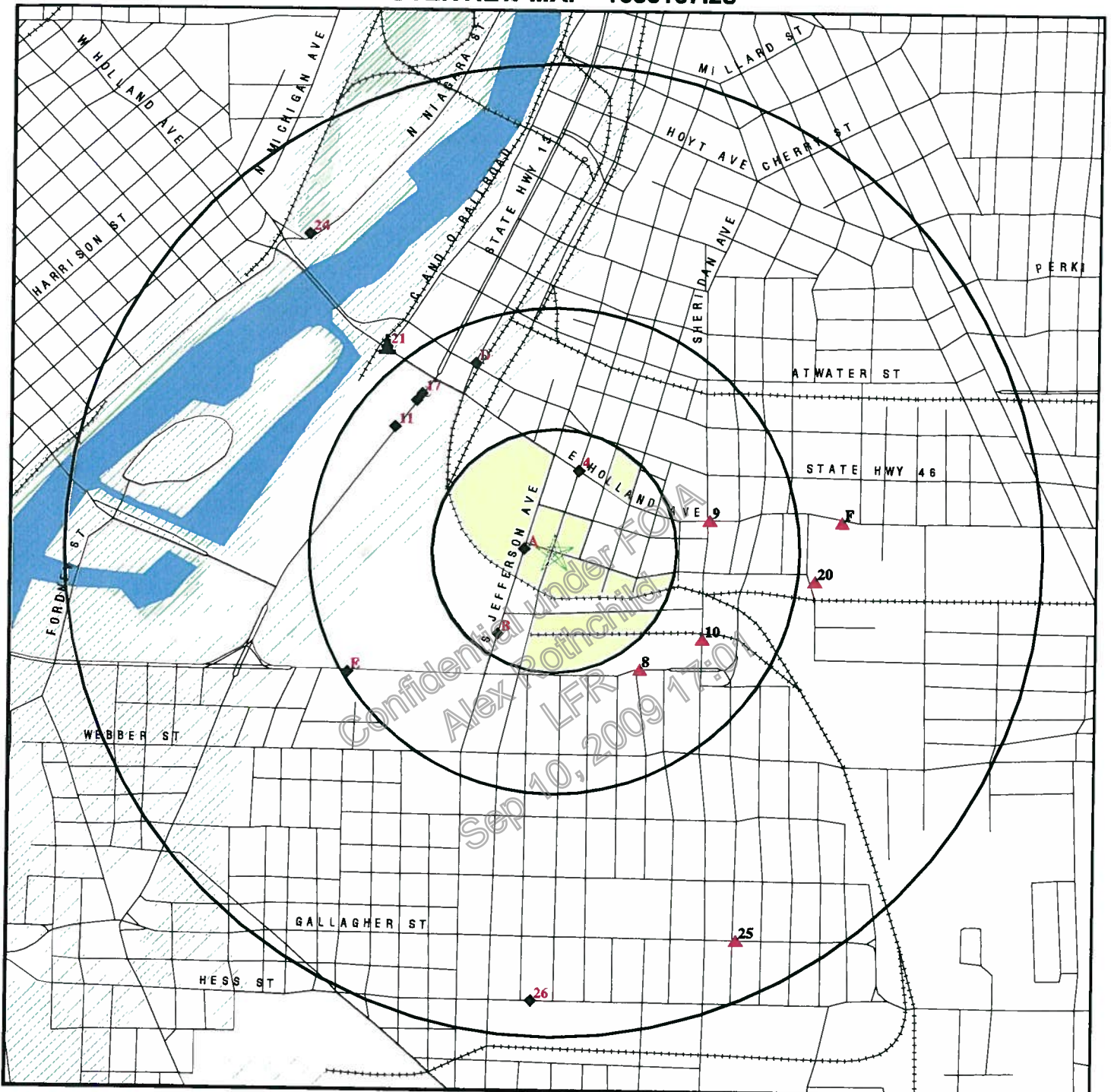
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EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

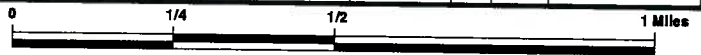
<u>Site Name</u>	<u>Database(s)</u>
SAGINAW WASTEWATER	FTTS
FORMER NATIONAL PLATE GLASS	SHWS, BROWNFIELDS, AUL
GRAND TRUNK RR GENESEE ST	SHWS
EMERSON STREET RETENTION BASIN	SHWS
CROW ISLAND LANDFILL	SHWS
SCHULTZ SCRAPYARD	SHWS
W. GENESEE, S. SIDE BTW MICH/SCH	SHWS
NIAGARA STREET, BLOCK 25	SHWS
NIAGARA STREET BLOCK 30	SHWS
WEISS ST RETENTION BASIN	SHWS
SCA SAGINAW TWP LF	SHWS
CSX FORMER GM NODULAR IRON YARD	SHWS
MDOT M13 RAMPS	SHWS
RUBEN SCHULTZ-FORMER TANNERY	SHWS
MI DEPT/NATURAL RESOURCES	CERC-NFRAP
	RCRA-SQG, FINDS,
	CERC-NFRAP
LAMBERT SANITARY LANDFILL	SWF/LF
CITY OF SAGINAW SLF	HIST LF
STEVENS VAN LINES, INC	LUST
FORMER BRUCE CARTAGE	LUST, UST
STEVENS VAN LINES, INC	UST
MI DEPT/TRANSPORTATION	RCRA-SQG
MI DEPT/TRANSPORTATION	RCRA-SQG
MI DEPT/ENVIRONMENTAL QUALITY	RCRA-SQG
WOLVERINE STATE BAPTIST CONVENTION	RCRA-SQG
THOMSON SAGINAW BALL SCREW CO INC	RCRA-SQG, FINDS
MI DEPT/TRANSPORTATION BRIDGE	RCRA-SQG, FINDS
SAGINAW ASPHALT PAVING NO 9	RCRA-SQG, FINDS
AMERICAN HOIST COMPANY SAGINAW RIVER	ERNS
BUENA VISTA DOCK SAGINAW RIVER	ERNS
SAGINAW RIVER	ERNS
SAGINAW YARD	ERNS
SAGINAW ASPHALT CO. 4711 VETERANS HY	ERNS
SAGINAW GRAY IRON PLANT	ERNS
STARTS FROM THE TOWN OF SAGINAW VIA RIVER TO LAKE HURON A LO	ERNS
MI DEPT/TRANSPORTATION	FINDS
CITY OF SAGINAW SLF	FINDS
CITY OF SAGINAW SLF	FINDS
MI DEPT/ENVIRONMENTAL QUALITY	FINDS
MI DEPT/TRANSPORTATION	FINDS
SAGINAW WASTEWATER	FINDS
1807 & 1811 S. JEFFERSON AVE.	FINDS
PARCEL B - 1700-2000 HESS AVE.	BEA
	BEA

OVERVIEW MAP - 1656167.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands



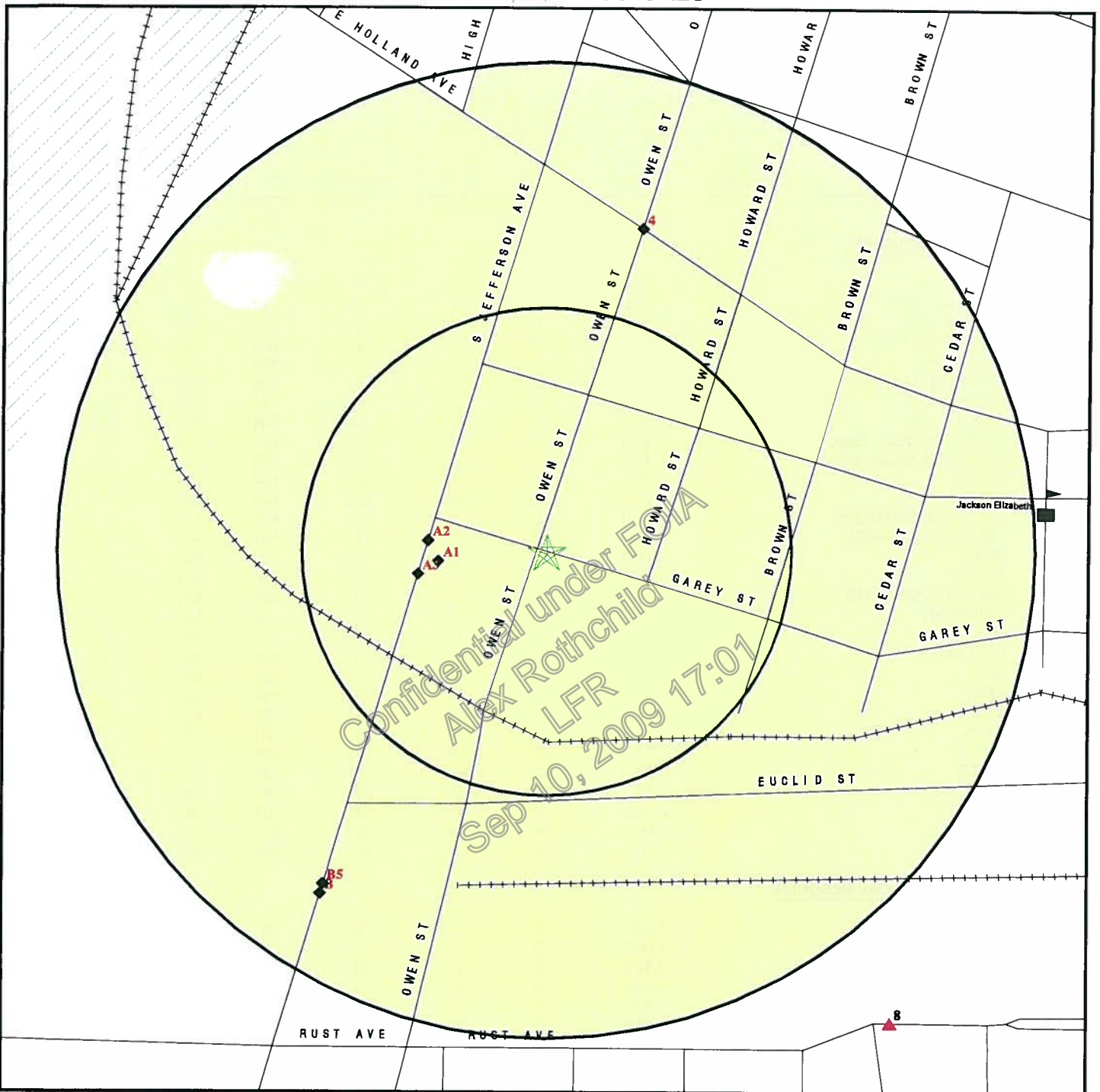
This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: 045285 - Saginaw, MI
ADDRESS: 700 Garey Street
 Saginaw MI 48601
LAT/LONG: 43.4136 / 83.9420

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 LFR
 Sep 10, 2009

CLIENT: Conestoga-Rovers & Associates
CONTACT: Kelly F. Connolly
INQUIRY #: 1656167.2s
DATE: April 17, 2006

DETAIL MAP 1656167.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

<p>SITE NAME: 045285 - Saginaw, MI ADDRESS: 700 Garey Street Saginaw MI 48601 LAT/LONG: 43.4136 / 83.9420</p>	<p>CLIENT: Conestoga-Rovers & Associates CONTACT: Kelly F. Connolly INQUIRY #: 1656167.2s DATE: April 17, 2006</p>
---	---

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY		TP	NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	3	2	NR	NR	NR	5
ERNS		TP	NR	NR	NR	NR	NR	0
HMIRS		TP	NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	2	NR	NR	2
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
State Haz. Waste		1.000	0	0	0	5	NR	5
DEL SHWS		1.000	0	0	0	1	NR	1
State Landfill		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	5	NR	NR	6
UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	1	NR	NR	NR	1
PEAS		TP	NR	NR	NR	NR	NR	0
AUL		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
BROWNFIELDS		0.500	0	0	1	NR	NR	1
BEA		0.500	0	1	5	NR	NR	6
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0

MAP FINDINGS SUMMARY

<u>Database</u>	<u>Target Property</u>	<u>Search Distance (Miles)</u>	<u>< 1/8</u>	<u>1/8 - 1/4</u>	<u>1/4 - 1/2</u>	<u>1/2 - 1</u>	<u>> 1</u>	<u>Total Plotted</u>
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	1	NR	1
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site	Database(s)	EDR ID Number EPA ID Number
------	-------------	--------------------------------

A1 West < 1/8 294 ft.	SAGINAW ELECTRIC 1716 S JEFFERSON SAGINAW, MI 48607	RCRA-SQG FINDS 1000691363 MID985640853
---------------------------------------	--	---

Site 1 of 3 in cluster A

Relative:
Lower

RCRAInfo:

Contact: JACK ROMANOFF
(407) 479-4821

Actual:
607 ft.

Classification: Small Quantity Generator
 TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

A2 West < 1/8 322 ft.	WOLVERINE PATTERN AND MACHINE INC 1716 S JEFFERSON AVE SAGINAW, MI 48601	RCRA-SQG FINDS 1004725352 MIR000041715
---------------------------------------	---	---

Site 2 of 3 in cluster A

Relative:
Lower

RCRAInfo:

Owner: CLARK RUDY AND RICHARD J WILLARD
 EPA ID: MIR000041715
 Contact: RICHARD J WILLARD
(517) 752-0091

Actual:
607 ft.

Classification: Conditionally Exempt Small Quantity Generator
 TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site:
 RESOURCE CONSERVATION AND RECOVERY ACT INFORMATION SYSTEM

A3 West < 1/8 353 ft.	CITY OF SAGINAW 1741 S JEFFERSON SAGINAW, MI 48601	RCRA-SQG FINDS 1008373763 MIK932979768
---------------------------------------	---	---

Site 3 of 3 in cluster A

Relative:
Lower

RCRAInfo:

Owner: CITY OF SAGINAW
 EPA ID: MIK932979768
 Contact: JERRY GOMEZ
(989) 759-1682

Actual:
607 ft.

Classification: Small Quantity Generator
 TSDF Activities: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

CITY OF SAGINAW (Continued)

Violation Status: No violations found

1008373763

4
 NNE
 1/8-1/4
 909 ft.

**CITY OF SAGINAW
 HOLLAND & OWEN RD
 SAGINAW, MI 48601**

**RCRA-SQG 1007100921
 MIK898614565**

**Relative:
 Lower**

RCRAInfo:
 Contact: ALLEN SZTUCZKO
 (989) 759-1523

**Actual:
 604 ft.**

Classification: Small Quantity Generator
 TSDF Activities: Not reported

Violation Status: No violations found

B5
 SSW
 1/8-1/4
 1084 ft.

**1800 S. JEFFERSON AVE.
 SAGINAW, MI 48601**

**BEA S105767935
 NA**

**Relative:
 Lower**

Site 1 of 3 in cluster B

BEA:
 BEA Number: 479
 District: Saginaw Bay
 Date Received: 2002-05-29 00:59:00
 Submitter Name: City of Saginaw
 Petition Determination: No Request
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: lyonmr
 Division Assigned: Environmental Response Division
 Secondary Address: Not reported

BEA Number: 478
 District: Saginaw Bay
 Date Received: 2002-05-29 00:59:00
 Submitter Name: Friends of the Saginaw Zoo, Inc.
 Petition Determination: No Request
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: lyonmr
 Division Assigned: Environmental Response Division
 Secondary Address: Not reported

BEA Number: 477
 District: Saginaw Bay
 Date Received: 2002-05-29 00:59:00
 Submitter Name: Saginaw Valley Zoological Society
 Petition Determination: No Request
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: lyonmr
 Division Assigned: Environmental Response Division
 Secondary Address: Not reported

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MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

B6 JEFFERSON OIL CO
SSW 1807 S JEFFERSON AVE
 1/8-1/4 SAGINAW, MI 48601
 1110 ft.

LUST U000264343
 UST N/A
 AST

Site 2 of 3 in cluster B

Relative:
 Lower

Actual:
 607 ft.

LUST:

Facility ID: 00004110
 Release Date: Jan 25 1990
Facility Status: Closed
 District: Saginaw Bay District Office
 Closed Date: Sep 26 1995
 Owner Contact : Not reported
 Owner Name : Furstenburg-Braun Lumber Co
 Owner Address : 1764 S Jefferson Ave
 Saginaw, MI 48601
 Country : USA
 Owner Phone : (517) 752-5101
 Leak Number: C-0169-90
 Substance Release: Not reported
 Site Name : Jefferson Oil - Furstenburg/brau

Facility ID: 00004110
 Release Date: Jan 26 1990
Facility Status: Closed
 District: Saginaw Bay District Office
 Closed Date: Sep 28 1995
 Owner Contact : Not reported
 Owner Name : Furstenburg-Braun Lumber Co
 Owner Address : 1764 S Jefferson Ave
 Saginaw, MI 48601
 Country : USA
 Owner Phone : (517) 752-5101
 Leak Number: C-0175-90
 Substance Release: Not reported
 Site Name : Jefferson Oil - Furstenburg/brau

UST:

Facility ID: 00004110
 Facility Status: CLOSED
 Tank ID: 1
 Owner: Furstenburg-Braun Lumber Co
 Owner Country: USA
 Owner Contact: Not reported
 Owner Address: 1764 S Jefferson Ave
 Saginaw, MI 48601
 Owner Phone: (517) 752-5101
 Product: Gasoline
 Capacity: 2000
 Tank Status: Removed from Ground
 Remove Date: Feb 6 1990
 Constr Material: Asphalt Coated or Bare Steel
 Piping Material: Galvanized Steel
 Piping Type: Not reported
 Contact: ROBERT E BRAUN
 Contact Phone: (517) 752-5101
 Impressed Device: No
 Install Date: Apr 22 1977
 Release Detection:
 Tank: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

JEFFERSON OIL CO (Continued)

U000264343

Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 2
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave
Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Gasoline
Capacity: 1000
Tank Status: Removed from Ground
Remove Date: Feb 6 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Apr 23 1975
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 3
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave
Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Feb 6 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Apr 22 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 4
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

JEFFERSON OIL CO (Continued)

U000264343

Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Feb 6 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Apr 22 1966
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 5
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave
Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Used Oil
Capacity: 280
Tank Status: Removed from Ground
Remove Date: Feb 6 1990
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Not reported
Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Apr 22 1974
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 6
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave
Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Diesel
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Nov 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

JEFFERSON OIL CO (Continued)

U000264343

Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00004110
Facility Status: CLOSED
Tank ID: 7
Owner: Furstenburg-Braun Lumber Co
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1764 S Jefferson Ave
Saginaw, MI 48601
Owner Phone: (517) 752-5101
Product: Diesel
Capacity: 1500
Tank Status: Removed from Ground
Remove Date: Nov 1 1992
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: ROBERT E BRAUN
Contact Phone: (517) 752-5101
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

AST:

Facility ID: 91073020
Tank ID: 1
Type: CLOSED
Tank Status: Removed from Premises
Content: Flammable Liquid
Capacity: 10477
Owner: Jefferson Oil Co
Owner Address: 1807 S JEFFERSON
SAGINAW, MI 48601
Owner Contact: Not reported
Owner Country: USA
District: Saginaw Bay District Office
Install Date: Not reported
Close Date: Dec 5 1984
Facility Phone: () -
Contact: Not reported

Facility ID: 91073020
Tank ID: 2
Type: CLOSED
Tank Status: Removed from Premises
Content: Flammable Liquid
Capacity: 13807
Owner: Jefferson Oil Co
Owner Address: 1807 S JEFFERSON

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

JEFFERSON OIL CO (Continued)

U000264343

SAGINAW, MI 48601
Owner Contact: Not reported
Owner Country: USA
District: Saginaw Bay District Office
Install Date: Not reported
Close Date: Dec 5 1984
Facility Phone: () -
Contact: Not reported

**B7
SSW
1/8-1/4
1128 ft.**

**MEANS INDUSTRIES INC
1811 S JEFFERSON AVE
SAGINAW, MI 48601**

**RCRA-SQG 1007100006
MIK759926785**

Site 3 of 3 in cluster B

**Relative:
Lower**

**Actual:
607 ft.**

RCRAInfo:
Owner: MEANS INDUSTRIES INC
EPA ID: MIK759926785
Contact: DAVID CORNELIUS
(989) 754-3300
Classification: Conditionally Exempt Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

**8
SE
1/4-1/2
1579 ft.**

**FISCHER-FLACK, INC
2115 RUST AVE
SAGINAW, MI 48601**

**LUST S105213578
N/A**

**Relative:
Higher**

**Actual:
609 ft.**

LUST:
Facility ID: 00015613
Release Date: Dec 23 1991
Facility Status: **Closed**
District: Saginaw Bay District Office
Closed Date: Apr 30 1993
Owner Contact : Not reported
Owner Name : Fischer-Flack, Inc
Owner Address : 2115 Rust Ave
Saginaw, MI 48601
Country : USA
Owner Phone : (517) 752-4181
Leak Number: C-2699-91
Substance Released: unknown
Site Name : Fisher Flack, Inc.

**9
ENE
1/4-1/2
1707 ft.**

**GENE A MIXON
1106 E HOLLAND AVE
SAGINAW, MI 48601**

**LUST U000264260
UST N/A**

**Relative:
Higher**

**Actual:
609 ft.**

LUST:
Facility ID: 00034405
Release Date: Dec 27 1990
Facility Status: **Open**
District: Saginaw Bay District Office

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

GENE A MIXON (Continued)

U000264260

Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Gene A Mixon
Owner Address : 1106 E Holland Ave
Saginaw, MI 48601
Country : USA
Owner Phone : (517) 752-6271
Leak Number: C-2805-90
Substance Released: Not reported
Site Name : Gene's Service

UST:

Facility ID: 00034405
Facility Status: CLOSED
Tank ID: 1
Owner: Gene A Mixon
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1106 E Holland Ave
Saginaw, MI 48601
Owner Phone: (517) 752-6271
Product: Gasoline
Capacity: 6000
Tank Status: Removed from Ground
Remove Date: Nov 5 1991
Constr Material: Unknown
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: GENE A MIXON
Contact Phone: (517) 752-6271
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00034405
Facility Status: CLOSED
Tank ID: 2
Owner: Gene A Mixon
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1106 E Holland Ave
Saginaw, MI 48601
Owner Phone: (517) 752-6271
Product: Gasoline
Capacity: 6000
Tank Status: Removed from Ground
Remove Date: Nov 5 1991
Constr Material: Unknown
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Contact: GENE A MIXON
Contact Phone: (517) 752-6271
Impressed Device: No
Install Date: Not reported
Release Detection:
Tank: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

Database(s) EDR ID Number
 EPA ID Number

GENE A MIXON (Continued)

U000264260

Pipe: Not reported
 Facility ID: 00034405
 Facility Status: CLOSED
 Tank ID: 3
 Owner: Gene A Mixon
 Owner Country: USA
 Owner Contact: Not reported
 Owner Address: 1106 E Holland Ave
 Saginaw, MI 48601
 Owner Phone: (517) 752-6271
 Product: Gasoline
 Capacity: 4000
 Tank Status: Removed from Ground
 Remove Date: Nov 5 1991
 Constr Material: Unknown
 Piping Material: Bare Steel
 Piping Type: Suction: No Valve At Tank
 Contact: GENE A MIXON
 Contact Phone: (517) 752-6271
 Impressed Device: No
 Install Date: Not reported
 Release Detection:
 Tank: Not reported
 Pipe: Not reported

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10
 ESE
 1/4-1/2
 1861 ft.

ACME BLOCK & SUPPLY
1833 SHERIDAN ST
SAGINAW, MI 48602

LUST U000264347
UST N/A

Relative:
Higher

LUST:
 Facility ID: 00003431
 Release Date: Nov 8 1991
 Facility Status: **Closed**
 District: Saginaw Bay District Office
 Closed Date: Apr 30 1993
 Owner Contact : Not reported
 Owner Name : Acme Block & Supply
 Owner Address : 1506 Mackinaw St
 Saginaw, MI 48602
 Country : USA
 Owner Phone : (517) 793-7331
 Leak Number: C-2387-91
 Substance Released: unknown
 Site Name : Acme Block & Supply-sheridan Rd.

Actual:
609 ft.

UST:
 Facility ID: 00003431
 Facility Status: CLOSED
 Tank ID: 1
 Owner: Acme Block & Supply
 Owner Country: USA
 Owner Contact: Not reported
 Owner Address: 1506 Mackinaw St
 Saginaw, MI 48602
 Owner Phone: (517) 793-7331
 Product: Gasoline
 Capacity: 1000

MAP FINDINGS

Map ID							
Direction							
Distance							
Distance (ft.)							EDR ID Number
Elevation	Site					Database(s)	EPA ID Number

ACME BLOCK & SUPPLY (Continued)

U000264347

Tank Status: Removed from Ground
 Remove Date: Nov 8 1991
 Constr Material: Asphalt Coated or Bare Steel
 Piping Material: Bare Steel
 Piping Type: Not reported
 Contact: JAMES PELTON
 Contact Phone: (517) 793-7331
 Impressed Device: No
 Install Date: Apr 29 1976
 Release Detection:
 Tank: Not reported
 Pipe: Not reported

11
 NW
 1/4-1/2
 2191 ft.

**1475 S. WASHINGTON AVE.
 SAGINAW, MI**

**BEA S105767944
 N/A**

**Relative:
 Lower**

BEA:
 BEA Number: 93
 District: Saginaw Bay
 Date Received: 1997-07-28 00:00:00
 Submitter Name: William A. Kibbe & Associates, Inc.
 Petition Determination: No Request
 Category: No Hazardous Substance(s)
 Determination 20107A: No Request
 Reviewer: temppm
 Division Assigned: Environmental Response Division
 Secondary Address: Not reported

**Actual:
 602 ft.**

**C12
 NW
 1/4-1/2
 2204 ft.**

**HOME FOR THE AGED
 1446 S. WASHINGTON AVE.
 SAGINAW, MI 48601**

**US BROWNFIELDS 1006882508
 N/A**

Site 1 of 3 in cluster C

**Relative:
 Lower**

US BROWNFIELDS:
 Pilot Name: Saginaw, MI
 EPA ID: Not reported
 Latitude: 43.417887
 Longitude: -83.948129
 Assessment: Not reported

**Actual:
 601 ft.**

**C13
 NW
 1/4-1/2
 2204 ft.**

**1446 SOUTH WASHINGTON AVE
 SAGINAW, MI 48605**

**BEA S105767906
 N/A**

Site 2 of 3 in cluster C

**Relative:
 Lower**

**Actual:
 601 ft.**

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

S105767906

BEA:

BEA Number: 357
District: Saginaw Bay
Date Received: 2000-12-01 00:59:00
Submitter Name: Gary Fogelsonger Zimmerman Living Trust
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: klannr
Division Assigned: Environmental Response Division
Secondary Address: Not reported

D14
NNW
1/4-1/2
2216 ft.

CROSSTOWN MARATHON
306 E REMINGTON ST
SAGINAW, MI 48601

LUST U000264448
UST N/A

Site 1 of 2 in cluster D

Relative:
Lower

Actual:
589 ft.

LUST:

Facility ID: 00007239
Release Date: Feb 28 2000
Facility Status: Open
District: Saginaw Bay District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Saginaw Land Development Llc
Owner Address : PO Box 1873
Saginaw, MI 48605
Country : USA
Owner Phone : (517) 754-9896
Leak Number: C-0214-00
Substance Released: unknown
Site Name : Crosstown Marathon

Facility ID: 00007239
Release Date: Jun 11 1999
Facility Status: Open
District: Saginaw Bay District Office
Closed Date: Not reported
Owner Contact : Not reported
Owner Name : Saginaw Land Development Llc
Owner Address : PO Box 1873
Saginaw, MI 48605
Country : USA
Owner Phone : (517) 754-9896
Leak Number: C-0117-00
Substance Released: unknown
Site Name : Crosstown Marathon

UST:

Facility ID: 00007239
Facility Status: CLOSED
Tank ID: 1
Owner: Saginaw Land Development Llc
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 1873
Saginaw, MI 48605
Owner Phone: (517) 754-9896

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CROSTOWN MARATHON (Continued)

U000264448

Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Feb 22 2000
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Contact: WILLIAM J GIORGIS
Contact Phone: (517) 755-1133
Impressed Device: No
Install Date: Jan 1 1967
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00007239
Facility Status: CLOSED
Tank ID: 2
Owner: Saginaw Land Development Llc
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 1873
Saginaw, MI 48605

Owner Phone: (517) 754-9896
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Feb 22 2000
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Contact: WILLIAM J GIORGIS
Contact Phone: (517) 755-1133
Impressed Device: No
Install Date: Jan 1 1967
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00007239
Facility Status: CLOSED
Tank ID: 3
Owner: Saginaw Land Development Llc
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 1873
Saginaw, MI 48605
Owner Phone: (517) 754-9896
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Feb 22 2000
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Contact: WILLIAM J GIORGIS
Contact Phone: (517) 755-1133

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

CROSSTOWN MARATHON (Continued)

U000264448

Impressed DeviceNo
Install Date: Jan 1 1967
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00007239
Facility Status: CLOSED
Tank ID: 4
Owner: Saginaw Land Development Llc
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 1873
Saginaw, MI 48605
Owner Phone: (517) 754-9896
Product: Gasoline
Capacity: 4000
Tank Status: Removed from Ground
Remove Date: Feb 22 2000
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Contact: WILLIAM J GIORGIS
Contact Phone: (517) 755-1133

Impressed DeviceNo
Install Date: Jan 1 1967
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00007239
Facility Status: CLOSED
Tank ID: 5
Owner: Saginaw Land Development Llc
Owner Country: USA
Owner Contact: Not reported
Owner Address: PO Box 1873
Saginaw, MI 48605
Owner Phone: (517) 754-9896
Product: Used Oil
Capacity: 500
Tank Status: Removed from Ground
Remove Date: Feb 23 2000
Constr Material: Cathodically Protected Steel
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Contact: WILLIAM J GIORGIS
Contact Phone: (517) 755-1133

Impressed DeviceNo
Install Date: Jan 1 1967
Release Detection:
Tank: Not reported
Pipe: Not reported

Confidential under FOIA
Alex Rothchild
LFR
Sep 10, 2009 17:01

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site Database(s) EDR ID Number
EPA ID Number

D15 **306 E. REMINGTON**
NNW **306 E. REMINGTON** **BEA** **S104910745**
1/4-1/2 **SAGINAW, MI 48601** **BROWNFIELDS** **N/A**
2216 ft.

Site 2 of 2 in cluster D

Relative:
Lower

BEA:
BEA Number: 264
District: Saginaw Bay
Date Received: 1999-12-07 00:00:00
Submitter Name: Saginaw Land Development, L.L.C.
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: tempm
Division Assigned: Storage Tank Division
Secondary Address: Not reported

Actual:
589 ft.

Brownfield:
Facility ID: 00007239
Status: Completed (LP)
Property Use: Abandoned gas station
Summary: Not reported
Market: Not reported
Comments: USTs removed.

C16 **CITY OF SAGINAW/MOTOR EQUIP DIV** **LUST** **U003081656**
NW **1435 S WASHINGTON AVE** **UST** **N/A**
1/4-1/2 **SAGINAW, MI 48601**
2218 ft.

Site 3 of 3 in cluster C

Relative:
Lower

LUST:
Facility ID: 00005034
Release Date: Dec 7 1998
Facility Status: Closed
District: Saginaw Bay District Office
Closed Date: Mar 3 1999
Owner Contact : Not reported
Owner Name : City Of Saginaw
Owner Address : 1435 S Washington Ave
Saginaw, MI 48601
Country : USA
Owner Phone : (517) 759-1414
Leak Number: C-1228-98
Substance Released: Unknown
Site Name : City Of Saginaw/motor Equip Div

Actual:
601 ft.

Facility ID: 00005034
Release Date: Jan 6 1994
Facility Status: Closed
District: Saginaw Bay District Office
Closed Date: Mar 3 1999
Owner Contact : Not reported
Owner Name : City Of Saginaw
Owner Address : 1435 S Washington Ave
Saginaw, MI 48601
Country : USA
Owner Phone : (517) 759-1414
Leak Number: C-1552-93
Substance Released: Gasoline, Unknown

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CITY OF SAGINAW/MOTOR EQUIP DIV (Continued)

U003081656

Site Name : Saginaw City Garage

UST:

Facility ID: 00005034
Facility Status: CLOSED
Tank ID: 1
Owner: City Of Saginaw
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1435 S Washington Ave
Saginaw, MI 48601

Owner Phone: (517) 759-1414
Product: Diesel
Capacity: 10000
Tank Status: Removed from Ground
Remove Date: Dec 7 1993
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Cathodically Protected,Galvanized Steel
Piping Type: Suction: No Valve At Tank
Contact: PETE BONK III
Contact Phone: (517) 759-1210

Impressed DeviceNo
Install Date: Apr 8 1973

Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00005034
Facility Status: CLOSED
Tank ID: 2
Owner: City Of Saginaw
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1435 S Washington Ave
Saginaw, MI 48601

Owner Phone: (517) 759-1414
Product: Diesel
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Dec 1 1998
Constr Material: Composite(Steel w/Fiberglass)
Piping Material: Cathodically Protected
Piping Type: Suction: No Valve At Tank
Contact: PETE BONK III
Contact Phone: (517) 759-1210

Impressed DeviceNo
Install Date: Jan 1 1980

Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00005034
Facility Status: CLOSED
Tank ID: 3
Owner: City Of Saginaw
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1435 S Washington Ave

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CITY OF SAGINAW/MOTOR EQUIP DIV (Continued)

U003081656

Saginaw, MI 48601
Owner Phone: (517) 759-1414
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Dec 1 1998
Constr Material: Fiberglass Reinforced plastic
Piping Material: Cathodically Protected
Piping Type: Suction: No Valve At Tank
Contact: PETE BONK III
Contact Phone: (517) 759-1210
Impressed Device: No
Install Date: Jan 1 1980
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00005034
Facility Status: CLOSED
Tank ID: 4
Owner: City Of Saginaw
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1435 S Washington Ave
Saginaw, MI 48601
Owner Phone: (517) 759-1414
Product: Gasoline
Capacity: 12000
Tank Status: Removed from Ground
Remove Date: Dec 7 1993
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Cathodically Protected Galvanized Steel
Piping Type: Suction: No Valve At Tank
Contact: PETE BONK III
Contact Phone: (517) 759-1210
Impressed Device: No
Install Date: Apr 8 1972
Release Detection:
Tank: Not reported
Pipe: Not reported

Facility ID: 00005034
Facility Status: CLOSED
Tank ID: 5
Owner: City Of Saginaw
Owner Country: USA
Owner Contact: Not reported
Owner Address: 1435 S Washington Ave
Saginaw, MI 48601
Owner Phone: (517) 759-1414
Product: Used Oil
Capacity: 550
Tank Status: Removed from Ground
Remove Date: Dec 1 1998
Constr Material: Asphalt Coated or Bare Steel
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

CITY OF SAGINAW/MOTOR EQUIP DIV (Continued)

U003081656

Contact: PETE BONK III
Contact Phone: (517) 759-1210
Impressed Device: No
Install Date: Jan 1 1980
Release Detection:
Tank: Not reported
Pipe: Not reported

17
NW
1/4-1/2
2235 ft.

1424 S. WASHINGTON AVE.
SAGINAW, MI

BEA S105767929
N/A

Relative:
Lower

BEA:

BEA Number: 458
District: Saginaw Bay
Date Received: 2002-03-26 00:59:00
Submitter Name: Downtown Area Development, L.L.C.
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: lyonmr
Division Assigned: Environmental Response Division
Secondary Address: Not reported

Actual:
601 ft.

E18
WSW
1/4-1/2
2582 ft.

1100 RUST AVE.
SAGINAW, MI 48601

BEA S105767914
N/A

Relative:
Lower

Site 1 of 2 in cluster E

BEA:

BEA Number: 453
District: Saginaw Bay
Date Received: 2002-03-06 00:59:00
Submitter Name: City of Saginaw
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: lyonmr
Division Assigned: Environmental Response Division
Secondary Address: Not reported

Actual:
603 ft.

BEA Number: 452
District: Saginaw Bay
Date Received: 2002-03-06 00:59:00
Submitter Name: Saginaw Valley Zoological Society
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: lyonmr
Division Assigned: Environmental Response Division
Secondary Address: Not reported

MAP FINDINGS

Map ID				
Direction				
Distance				
Distance (ft.)				
Elevation	Site		Database(s)	EDR ID Number EPA ID Number

E19	CMR		US BROWNFIELDS	1006882497
WSW	1100 RUST AVENUE			N/A
1/4-1/2	SAGINAW, MI			
2582 ft.				

Relative: **Site 2 of 2 in cluster E**

Lower **US BROWNFIELDS:**

 Pilot Name: Saginaw, MI

Actual: EPA ID: Not reported

603 ft. Latitude: 43.409843

 Longitude: -83.950173

 Assessment: Not reported

20	BOXWOOD ST 1705, SAGINAW		SHWS	S105144681
East	1705 BOXWOOD ST			N/A
1/2-1	SAGINAW, MI 48601			
2823 ft.				

Relative: **SHWS:**

Higher Facility ID: 73000482

 Source: Motor Vehicle Parts

Actual: **Facility Status: Inactive - no actions taken to address contamination**

609 ft. Pollutants : Acenaphthene

 SAM Score: 18 out of 48

 SAM Score Date: 11/3/2005

 Township: 12N

 Range: 05E

 Section: 30

 Quarter: SW

 Quarter/Quarter: NW

21	THE EAST SAGINAW GAS CO		Manufactured Gas Plants	1008408149
NW	HOLLAND AVE AND WASHINGTON STREET			N/A
1/2-1	SAGINAW, MI 48601			
2870 ft.				

Relative: Alternate Name: CONSUMERS POWER CO.

Lower

Actual:

593 ft.

F22	WICKES ENGINEERING		SHWS	S103084696
East	1621 E HOLLAND AVE			N/A
1/2-1	SAGINAW, MI 48601			
3113 ft.				

Relative: **Site 1 of 2 in cluster F**

Equal **SHWS:**

 Facility ID: 73000039

 Source: null

Actual: **Facility Status: Interim Response in progress**

608 ft. Pollutants : "1,1,1 TCA; 1,1 DCA; 1,2 DCA; TCM; TCE; VC"

 SAM Score: 34 out of 48

 SAM Score Date: 6/22/2004

 Township: 12N

 Range: 05E

 Section: 30

 Quarter: SW

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

WICKES ENGINEERING (Continued)

S103084696

Quarter/Quarter: NE

F23
 East
 1/2-1
 3113 ft.

U.S. GRAPHITE
1621 E. HOLLAND
SAGINAW, MI 48601

SHWS S105144676
 N/A

Site 2 of 2 in cluster F

Relative:
 Equal

SHWS:

Actual:
 608 ft.

Facility ID: 73000417
 Source: Carbon & Graphite Products
Facility Status: Interim Response in progress
 Pollutants : PCB's; Metals; PNAs; Solvents
 SAM Score: 31 out of 48
 SAM Score Date: 6/29/2004
 Township: 12N
 Range: 05E
 Section: 30
 Quarter: SW
 Quarter/Quarter: NE

24
 NW
 1/2-1
 4342 ft.

NAT ASSOC OF PHYSICALLY HANDICAP
1151 N. NIAGARA
SAGINAW, MI 48602

SHWS S105144684
 N/A

Relative:
 Lower

SHWS:

Actual:
 589 ft.

Facility ID: 73000487
 Source: Transformers
Facility Status: Inactive - no actions taken to address contamination
 Pollutants : PCB's
 SAM Score: 28 out of 48
 SAM Score Date: 6/18/2004
 Township: 12N
 Range: 04E
 Section: 24
 Quarter: SW
 Quarter/Quarter: SE

25
 SSE
 1/2-1
 4667 ft.

2322 GALLAGHER STREET
SAGINAW, MI 48601

BEA S105767957
 DEL SHWS N/A

Relative:
 Higher

DELETED HWS:

Actual:
 609 ft.

Facility ID : 73000488
 Status : Delisted - no longer meets criteria specified in rules

MAP FINDINGS

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

Database(s) EDR ID Number
EPA ID Number

(Continued)

S105767957

BEA:
BEA Number: 132
District: Saginaw Bay
Date Received: 1998-04-01 00:00:00
Submitter Name: Ronald S. Kudek/Donald Mason
Petition Determination: No Request
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: tempm
Division Assigned: Environmental Response Division
Secondary Address: Not reported

26 LUFKIN RULE
South 1730 HESS
1/2-1 SAGINAW, MI 48601
4889 ft.

SHWS S105144677
N/A

Relative:
Lower

SHWS:
Facility ID: 73000449
Source: Hardware
Facility Status: Interim Response conducted - No further activities anticipated
Pollutants : PCB's; CFC-11; PNAS
SAM Score: 17 out of 48
SAM Score Date: 11/1/2004
Township: 12N
Range: 04E
Section: 36
Quarter: SE
Quarter/Quarter: NW

Actual:
604 ft.

ORPHAN SUMMARY

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City	EDR ID	Site Name	Site Address	Zip	Database(s)
BAY CITY	U003866508	STEVENS VAN LINES, INC	3780 EUCLID AVE	48601	UST
BAY CITY	S105213360	STEVENS VAN LINES, INC	3780 EUCLID AVE	48601	LUST
SAGINAW	1003873106	RUBEN SCHULTZ-FORMER TANNERY	1000, 1115 & 1225 N. WASHINGTON AVENUE	48601	CERC-NFRAP
SAGINAW	S105576426	LAMBERT SANITARY LANDFILL	RR 1	48601	SWF/LF
SAGINAW	S104910717	1807 & 1811 S. JEFFERSON AVE.	1807 / 1811 S. JEFFERSON AVE.		BEA
SAGINAW	1007218198	MI DEPT/TRANSPORTATION	ALL COUNTIES LOCATED IN BAY RE	48601	FINDS
SAGINAW	1007096639	MI DEPT/TRANSPORTATION	ALL COUNTIES LOCATED IN BAY RE	48601	RCRA-SQG
SAGINAW	94373180	AMERICAN HOIST COMPANY SAGINAW RIVER	AMERICAN HOIST COMPANY SAGINAW RIVER		ERNS
SAGINAW	S105144674	FORMER NATIONAL PLATE GLASS	4000-4061 ARTHUR STREET	48602	SHWS, BROWNFIELDS, AUL
SAGINAW	1006829040	CITY OF SAGINAW SLF	4100 BAY CITY RD		FINDS
SAGINAW	S103084687	GRAND TRUNK RR GENESEE ST	400 BLCK W. GENESEE ST	48607	SHWS
SAGINAW	1007101776	MI DEPT/TRANSPORTATION	BRIDGEPORT REST AREA	48601	RCRA-SQG
SAGINAW	92263590	BUENA VISTA DOCK SAGINAW RIVER	BUENA VISTA DOCK SAGINAW RIVER		ERNS
SAGINAW	S103084741	EMERSON STREET RETENTION BASIN	NW CORNER EMERSON AND WATER	48607	SHWS
SAGINAW	S100070676	CITY OF SAGINAW SLF	4670 CROW ISLAND RD	48601	HIST LF
SAGINAW	1006840505	CITY OF SAGINAW SLF	4670 CROW ISLAND RD	48601	FINDS
SAGINAW	S103084701	CROW ISLAND LANDFILL	CROW ISLAND	48607	SHWS
SAGINAW	1007139093	MI DEPT/ENVIRONMENTAL QUALITY	FRED & RITTER RD	48601	FINDS
SAGINAW	1007102333	MI DEPT/ENVIRONMENTAL QUALITY	FRED & RITTER RD	48601	RCRA-SQG
SAGINAW	S103094896	SCHULTZ SCRAPYARD	3300 GABRIEL RD.	48602	SHWS
SAGINAW	S103084827	W. GENESEE, S. SIDE BTW MICH/SCH	W. GENESEE, S. SIDE, BTW MICHIGAN/SCHAEF	48602	SHWS
SAGINAW	1007096987	WOLVERINE STATE BAPTIST CONVENTION	615 S JEFFERSON	48601	RCRA-SQG
SAGINAW	1000119635	MI DEPT/NATURAL RESOURCES	17 MILES FROM TITAB RIVER TO	48601	RCRA-SQG, FINDS, CERC-NFRAP
SAGINAW	S103084795	NIAGARA STREET, BLOCK 25	NIAGARA AND MADISON	48602	SHWS
SAGINAW	S103084797	NIAGARA STREET BLOCK 30	NIAGARA AND MADISON	48602	SHWS
SAGINAW	S105144669	WEISS ST RETENTION BASIN	NULL	48602	SHWS
SAGINAW	1007140074	MI DEPT/TRANSPORTATION	P O BOX 4949	48601	FINDS
SAGINAW	S103594664	SCA SAGINAW TWP LF	1810 O'CONNOR ROAD	48602	SHWS
SAGINAW	S104005118	CSX FORMER GM NODULAR IRON YARD	NORTH OF 2619 N. WASHINGTON	48601	SHWS
SAGINAW	S104910286	PARCEL B - 1700-2000 HESS AVE.	PARCEL B - 1700-2000 HESS AVE.		BEA
SAGINAW	1008188698	SAGINAW WASTEWATER	7406 PLAY VETERAN'S MEMORIAL PARKEY	48601	FTTS
SAGINAW	1004530795	SAGINAW WASTEWATER	7406 PLAY VETERAN S MEMORIAL PARKEY	48601	FINDS
SAGINAW	89127480	SAGINAW RIVER	SAGINAW RIVER		ERNS
SAGINAW	99609039	SAGINAW YARD	SAGINAW YARD		ERNS
SAGINAW	91240105	SAGINAW ASPHALT CO. 4711 VETERANS HY	SAGINAW ASPHALT CO. 4711 VETERANS HY		ERNS
SAGINAW	873594	SAGINAW GRAY IRON PLANT	SAGINAW GRAY IRON PLANT		ERNS
SAGINAW	900102531	STARTS FROM THE TOWN OF SAGINAW VIA RIVER TO LAKE HURON A LO	STARTS FROM THE TOWN OF SAGINAW VIA RIVER TO LAKE HURON A LO		ERNS
SAGINAW	1000303377	THOMSON SAGINAW BALL SCREW CO INC	S TOWERLINE RD	48601	RCRA-SQG, FINDS
SAGINAW	1000691460	MI DEPT/TRANSPORTATION BRIDGE	I-75 UNDER HESS RD	48601	RCRA-SQG, FINDS
SAGINAW	1000255730	SAGINAW ASPHALT PAVING NO 9	4745 VETERANS MEMORIAL PKWY	48601	RCRA-SQG, FINDS
SAGINAW	U002303064	FORMER BRUCE CARTAGE	3460 E WASHINGTON AVE	48601	LUST, UST
ZILWaukee	S103084815	MDOT M13 RAMPS	M13 RAMP FOR I 75	48601	SHWS

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 02/24/2006	Source: EPA
Date Data Arrived at EDR: 03/01/2006	Telephone: N/A
Date Made Active in Reports: 03/31/2006	Last EDR Contact: 03/01/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/01/2006
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 8
Telephone: 303-312-6774

EPA Region 4
Telephone 404-562-8033

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 02/24/2006	Source: EPA
Date Data Arrived at EDR: 03/01/2006	Telephone: N/A
Date Made Active in Reports: 03/31/2006	Last EDR Contact: 03/01/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/01/2006
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 02/24/2006	Source: EPA
Date Data Arrived at EDR: 03/01/2006	Telephone: N/A
Date Made Active in Reports: 03/31/2006	Last EDR Contact: 03/01/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 05/01/2006
	Data Release Frequency: Quarterly

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 03/06/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 05/22/2006
	Data Release Frequency: No Update Planned

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/21/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 02/01/2006	Source: EPA
Date Data Arrived at EDR: 03/21/2006	Telephone: 703-413-0223
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/21/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 03/06/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 06/05/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 02/21/2006	Source: EPA
Date Data Arrived at EDR: 03/01/2006	Telephone: 800-424-9346
Date Made Active in Reports: 03/31/2006	Last EDR Contact: 03/01/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 04/24/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 01/12/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/24/2006
	Data Release Frequency: Annually

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/31/2005	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 01/16/2006	Telephone: 202-366-4555
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/14/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 08/02/2005	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/12/2005	Telephone: 703-603-8905
Date Made Active in Reports: 10/06/2005	Last EDR Contact: 03/03/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 01/10/2005	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/11/2005	Telephone: 703-603-8905
Date Made Active in Reports: 04/06/2005	Last EDR Contact: 03/03/2006
Number of Days to Update: 54	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 02/06/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 05/08/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients-States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 11/29/2005
Date Data Arrived at EDR: 12/05/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 04/25/2005
Number of Days to Update: 69

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 07/24/2006
Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 12/07/2005
Date Data Arrived at EDR: 01/06/2006
Date Made Active in Reports: 02/21/2006
Number of Days to Update: 46

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/05/2006
Next Scheduled EDR Contact: 07/03/2006
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005
Date Data Arrived at EDR: 11/28/2005
Date Made Active in Reports: 01/30/2006
Number of Days to Update: 63

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 03/20/2006
Next Scheduled EDR Contact: 06/19/2006
Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 07/13/2005	Telephone: 202-566-0250
Date Made Active in Reports: 08/17/2005	Last EDR Contact: 03/21/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/27/2004	Telephone: 202-260-5521
Date Made Active in Reports: 05/21/2004	Last EDR Contact: 04/12/2006
Number of Days to Update: 24	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 01/17/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 01/24/2006	Telephone: 202-566-1667
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 03/20/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 01/17/2006	Source: EPA
Date Data Arrived at EDR: 01/24/2006	Telephone: 202-566-1667
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 03/20/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/19/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2003	Source: EPA
Date Data Arrived at EDR: 01/03/2005	Telephone: 202-564-4203
Date Made Active in Reports: 01/25/2005	Last EDR Contact: 03/06/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 07/17/2006
	Data Release Frequency: Annually

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 12/27/2005	Source: EPA
Date Data Arrived at EDR: 02/08/2006	Telephone: 202-566-0500
Date Made Active in Reports: 02/27/2006	Last EDR Contact: 02/08/2006
Number of Days to Update: 19	Next Scheduled EDR Contact: 05/08/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 02/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 02/16/2006	Telephone: 301-415-7169
Date Made Active in Reports: 03/31/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 11/08/2005	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 12/27/2005	Telephone: 303-231-5959
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 03/29/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 06/26/2006
	Data Release Frequency: Semi-Annually

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and pointers to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 01/09/2006	Source: EPA
Date Data Arrived at EDR: 01/16/2006	Telephone: N/A
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 04/03/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 07/03/2006
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 03/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 06/05/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 03/17/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 06/12/2006
	Data Release Frequency: Biennially

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

STATE AND LOCAL RECORDS

SHWS: Contaminated Sites

State Hazardous Waste Sites. State hazardous waste site records are the states' equivalent to CERCLIS. These sites may or may not already be listed on the federal CERCLIS list. Priority sites planned for cleanup using state funds (state equivalent of Superfund) are identified along with sites where cleanup will be paid for by potentially responsible parties. Available information varies by state.

Date of Government Version: 02/20/2006	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/21/2006	Telephone: 517-373-9541
Date Made Active in Reports: 03/17/2006	Last EDR Contact: 02/21/2006
Number of Days to Update: 24	Next Scheduled EDR Contact: 05/22/2006
	Data Release Frequency: Semi-Annually

DEL SHWS: Delisted List of Contaminated Sites

Sites that have been delisted or deleted from the List of Contaminated Sites. The available documentation for the site does not support its listing or the site no longer meets criteria specified in rules.

Date of Government Version: 02/27/2006	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/27/2006	Telephone: 517-373-9541
Date Made Active in Reports: 03/17/2006	Last EDR Contact: 02/20/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 05/22/2006
	Data Release Frequency: Varies

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, 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.

Date of Government Version: 11/01/2005	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/14/2005	Telephone: 517-335-4035
Date Made Active in Reports: 12/20/2005	Last EDR Contact: 01/23/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 04/24/2006
	Data Release Frequency: Semi-Annually

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997	Source: Department of Environmental Quality
Date Data Arrived at EDR: 02/28/2003	Telephone: 517-335-4034
Date Made Active in Reports: 03/06/2003	Last EDR Contact: 02/28/2003
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 12/13/2005	Source: Department of Environmental Quality
Date Data Arrived at EDR: 12/13/2005	Telephone: 517-373-9837
Date Made Active in Reports: 01/23/2006	Last EDR Contact: 03/15/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 06/12/2006
	Data Release Frequency: Annually

UST: Underground Storage Tank Facility List

Registered Underground Storage Tanks. UST's are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA) and must be registered with the state department responsible for administering the UST program. Available information varies by state program.

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/13/2006
Date Data Arrived at EDR: 03/15/2006
Date Made Active in Reports: 04/12/2006
Number of Days to Update: 28

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 03/15/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 12/13/2005
Date Data Arrived at EDR: 12/14/2005
Date Made Active in Reports: 01/16/2006
Number of Days to Update: 33

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: No Update Planned

PEAS: Pollution Emergency Alerting System

Environmental pollution emergencies reported to the Department of Environmental Quality such as tanker accidents, pipeline breaks, and release of reportable quantities of hazardous substances.

Date of Government Version: 10/02/2005
Date Data Arrived at EDR: 10/04/2005
Date Made Active in Reports: 11/11/2005
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 03/06/2006
Next Scheduled EDR Contact: 04/03/2006
Data Release Frequency: Quarterly

AUL: Engineering and Institutional Controls

A listing of sites with institutional and/or engineering controls in place

Date of Government Version: 02/01/2006
Date Data Arrived at EDR: 02/15/2006
Date Made Active in Reports: 03/17/2006
Number of Days to Update: 30

Source: Department of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 03/29/2006
Next Scheduled EDR Contact: 06/26/2006
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 11/18/2005
Date Data Arrived at EDR: 12/16/2005
Date Made Active in Reports: 01/23/2006
Number of Days to Update: 38

Source: Department of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 02/13/2006
Next Scheduled EDR Contact: 05/15/2006
Data Release Frequency: Varies

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 02/23/2006
Date Data Arrived at EDR: 02/27/2006
Date Made Active in Reports: 03/17/2006
Number of Days to Update: 18

Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 02/22/2006
Next Scheduled EDR Contact: 05/22/2006
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Date of Government Version: 12/16/2005
Date Data Arrived at EDR: 12/16/2005
Date Made Active in Reports: 01/23/2006
Number of Days to Update: 38

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541
Last EDR Contact: 03/13/2006
Next Scheduled EDR Contact: 06/12/2006
Data Release Frequency: Semi-Annually

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 202-208-3710
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 02/06/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 05/08/2006
	Data Release Frequency: Semi-Annually

INDIAN UST: Underground Storage Tanks on Indian Land

Date of Government Version: 12/02/2004	Source: EPA Region 5
Date Data Arrived at EDR: 12/29/2004	Telephone: 312-886-6136
Date Made Active in Reports: 02/04/2005	Last EDR Contact: 02/20/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 05/22/2006
	Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: Varies

Sep 10, 2009 17:01

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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LFR
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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

045285 - SAGINAW, MI
700 GAREY STREET
SAGINAW, MI 48601

TARGET PROPERTY COORDINATES

Latitude (North):	43.41360 - 43° 24' 49.0"
Longitude (West):	83.942 - 83° 56' 31.2"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	261804.4
UTM Y (Meters):	4810735.5
Elevation:	608 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43083-D8 SAGINAW, MI
Most Recent Revision:	1973

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

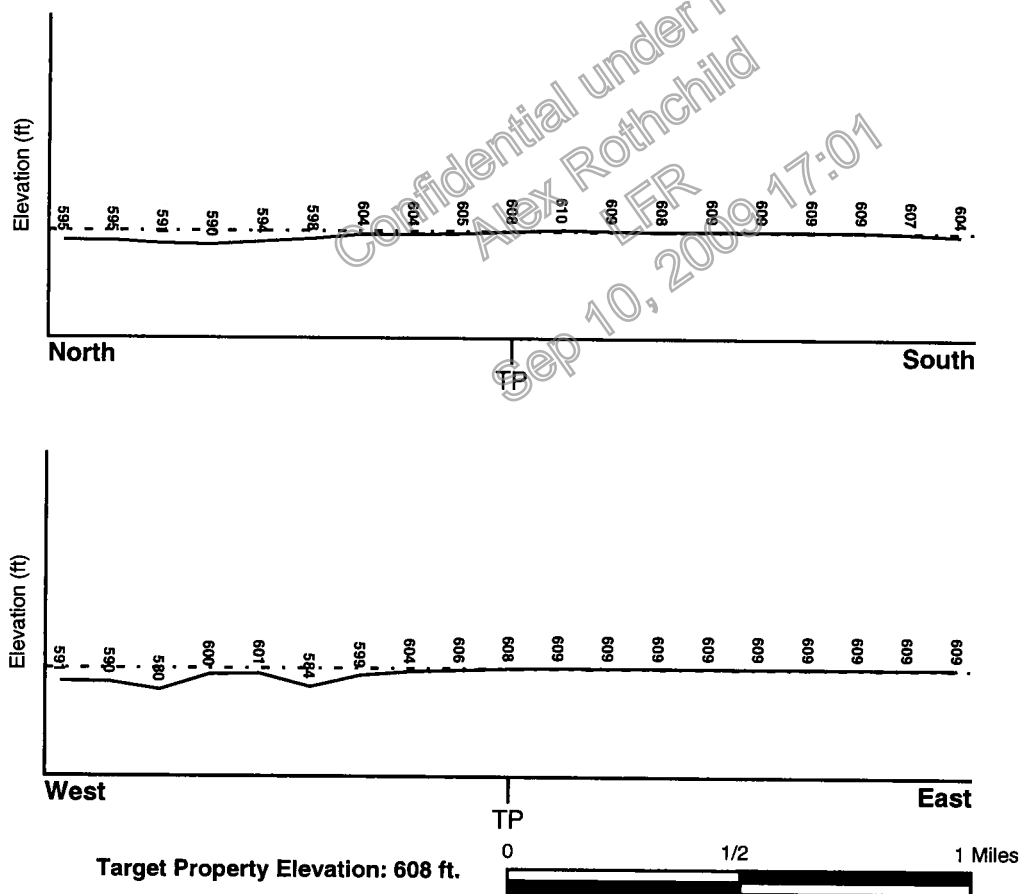
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SAGINAW, MI	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	26145C0135D
Additional Panels in search area:	26145C0140D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> SAGINAW	<u>NWI Electronic Data Coverage</u> Not Available
---	--

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
1	1/8 - 1/4 Mile SW	Not Reported
4	1/4 - 1/2 Mile ESE	Not Reported
A5	1/4 - 1/2 Mile NNW	W
9	1/2 - 1 Mile ESE	Not Reported
12	1/2 - 1 Mile NNW	E
14	1/2 - 1 Mile North	Not Reported
B16	1/2 - 1 Mile SSE	Not Reported
18	1/2 - 1 Mile East	N
20	1/2 - 1 Mile North	N,NE,E

For additional site information, refer to Physical Setting Source Map Findings.

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

Era: Paleozoic
System: Pennsylvanian
Series: Atokan and Morrowan Series
Code: PP1 (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: URBANLAND
Soil Surface Texture: variable
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	60 inches	variable	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: loamy sand

Surficial Soil Types: loamy sand

Shallow Soil Types: No Other Soil Types

Deeper Soil Types: sand
 silty clay loam

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
---------------	----------------	-------------------------

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
8	MI0005850	1/2 - 1 Mile NW

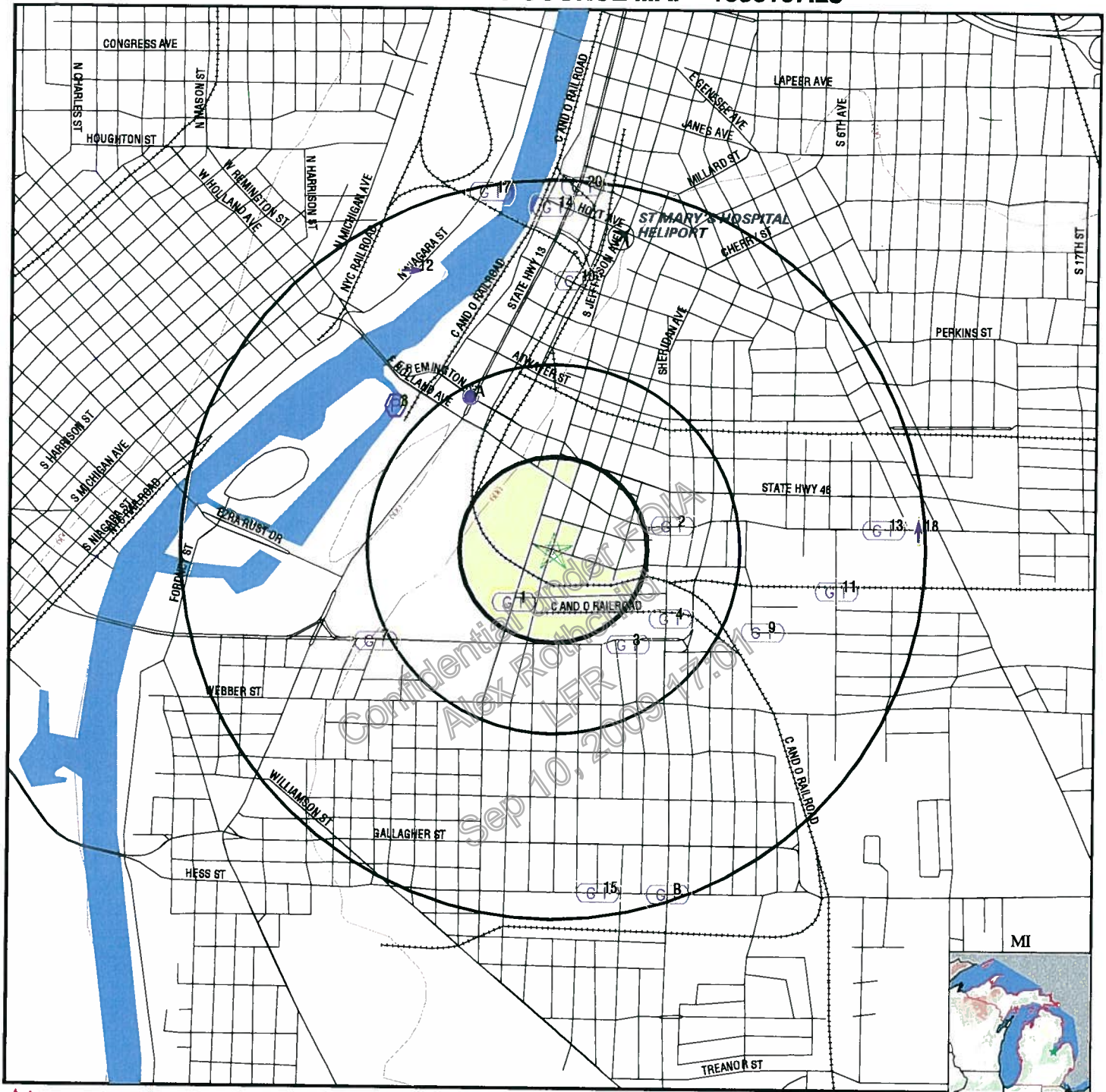
Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

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PHYSICAL SETTING SOURCE MAP - 1656167.2s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: 045285 - Saginaw, MI
ADDRESS: 700 Garey Street
 Saginaw MI 48601
LAT/LONG: 43.4136 / 83.9420

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 LFR
 Sep 10, 2009

CLIENT: Conestoga-Rovers & Associates
CONTACT: Kelly F. Connolly
INQUIRY #: 1656167.2s
DATE: April 17, 2006

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

			Database	EDR ID Number
1 SW 1/8 - 1/4 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	730258 Not Reported Not Reported 5 ft Not Reported 09/22/1995	AQUIFLOW	28136

4 ESE 1/4 - 1/2 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	0117922518 Not Reported 7 10.6 Not Reported 03/31/1992	AQUIFLOW	35543
--	---	---	-----------------	--------------

A5 NNW 1/4 - 1/2 Mile Lower	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	Not Reported W Not Reported Not Reported Not Reported 10/22/1997	AQUIFLOW	28156
--	---	---	-----------------	--------------

8 NW 1/2 - 1 Mile Lower			FRDS PWS	MI0005850
	PWS ID: Date Initiated: PWS Name:	MI0005850 Not Reported SAGINAW CITY OF SAGINAW 1701 SOUTH JEFFERSON SAGINAW, MI 48601	PWS Status: Date Deactivated:	Not Reported Not Reported

Source: Surface water
 Treatment Objective: DISINFECTION
 Treatment Objective: PARTICULATE REMOVAL
 Treatment Objective: SOFTENING (HARDNESS REMOVAL)
 Treatment Objective: OTHER

Process: GASEOUS CHLORINATION, POST
 Process: COAGULATION
 Process: LIME - SODA ASH ADDITION
 Process: FLUORIDATION

Addressee / Facility: Not Reported

Facility Latitude: 43 25 09 Facility Longitude: 083 57 02
 City Served: Not Reported
 Treatment Class: Mixed (treated and untreated) Population: 69512

PWS currently has or had major violation(s) or enforcement: No

9 ESE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	08009891 Not Reported 2 1/2 4 Not Reported 05/24/1991	AQUIFLOW	35531
--	---	--	-----------------	--------------

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

12 NNW 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	28367 E Not Reported Not Reported 8 09/23/1998	AQUIFLOW	28141
14 North 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	730448 Not Reported 12 22 Not Reported 11/20/1997	AQUIFLOW	35458
B16 SSE 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	730165 Not Reported 1.14 1.76 Not Reported 04/29/1993	AQUIFLOW	35634
18 East 1/2 - 1 Mile Higher	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	730123 N 3 ft 5 ft Not Reported 09/30/1996	AQUIFLOW	28140
20 North 1/2 - 1 Mile Lower	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	730250 N,NE,E 4 17 Not Reported 02/03/1995	AQUIFLOW	35642

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Test Type	Zip	Floor	Stop Date	Can 1 Res pCi/L	Can 1 Error	Can 2 Res pCi/L	Can 2 Error
Random	48601			NR			
Random	48601	1	10/29/87	LT 0.5			
Random	48601	1	2/20/88	0.8	31.0%		
Random	48601	0	2/10/88	1.1	14.2%		
Random	48601	0	11/4/87	3.4	9.8%		
Geographic	48601	1	4/15/88	0.6	56.7%		
Geographic	48601	0	4/14/88	1.3	15.7%		
Geographic	48601	0	4/14/88	1.5	16.8%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48601		0.40
48601	<	0.30
48601		1.70
48601		1.80
48601		0.50
48601		2.70
48601		2.50
48601		1.00
48601		2.10
48601		1.60

Federal EPA Radon Zone for SAGINAW County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 48601

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.650 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.900 pCi/L	100%	0%	0%

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW[®] Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality, Drinking Water and Radiological Protection Division

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

Locations of oil and gas wells are compiled from permit records on file at the Geological Survey Division (GSD), Michigan Department of Natural Resources.

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Prepared at the Request of Counsel***

APPENDIX C

SANBORN MAPS

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**EDR° Environmental
Data Resources Inc**

"Linking Technology with Tradition"®

Sanborn® Map Report

Ship To: Kelly F. Connolly
Conestoga-Rovers &
8615 West Bryn Mawr
Chicago, IL 60631

Order Date: 4/17/2006 **Completion Date:** 4/17/2006

Inquiry #: 1656167.3S

P.O. #: 045285

Site Name: 045285 - Saginaw MI

Address: 700 Garey Street

City/State: Saginaw, MI 48601

Cross Streets:

Customer Project: 045285
1103659ZIP 773-380-9933

Based on client-supplied information, fire insurance maps for the following years were identified

1901 - 1 Map

1935 - 2 Maps

1950 - 2 Maps

1969 - 2 Maps

Limited Permission to Photocopy

Total Maps: 7

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USER'S GUIDE

This User's Guide provides guidelines for accessing Sanborn Map® images and for transferring them to your Word Processor.

Reading Sanborn Maps

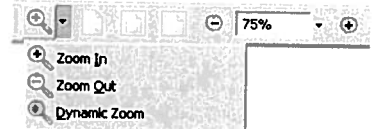
- Sanborn Maps document historical property use by displaying property information through words, abbreviations, and map symbols. The Sanborn Map Key provides information to help interpret the symbols and abbreviations used on Sanborn Maps. The Key is available from EDR's Web Site at: <http://www.edrnet.com/reports/samples/key.pdf>

Organization of Electronic Sanborn Image File

- Sanborn Map Report, listing years of coverage
- User's Guide
- Oldest Sanborn Map Image
- Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

1. Open file on screen.
2. Identify TP (Target Property) on the most recent map.
3. Find TP on older printed images.
4. Using Acrobat® Reader®, zoom to 250% in order to view more clearly. (200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.)
 - A. On the menu bar, click "View" and then "Zoom to..."
 - B. Or, use the magnifying tool and drag a box around the TP



Printing a Sanborn Map From the Electronic File

- EDR recommends printing images at 300 dpi (300 dpi prints faster than 600 dpi)
- To print only the TP area, cut and paste from Acrobat to your word processor application.

Acrobat Versions 6 and 7

1. Go to the menu bar
2. Click the "Select Tool"
3. Draw a box around the area selected
4. "Right click" on your mouse
5. Select "Copy Image to Clipboard"
6. Go to Word Processor such as Microsoft Word, paste and print.



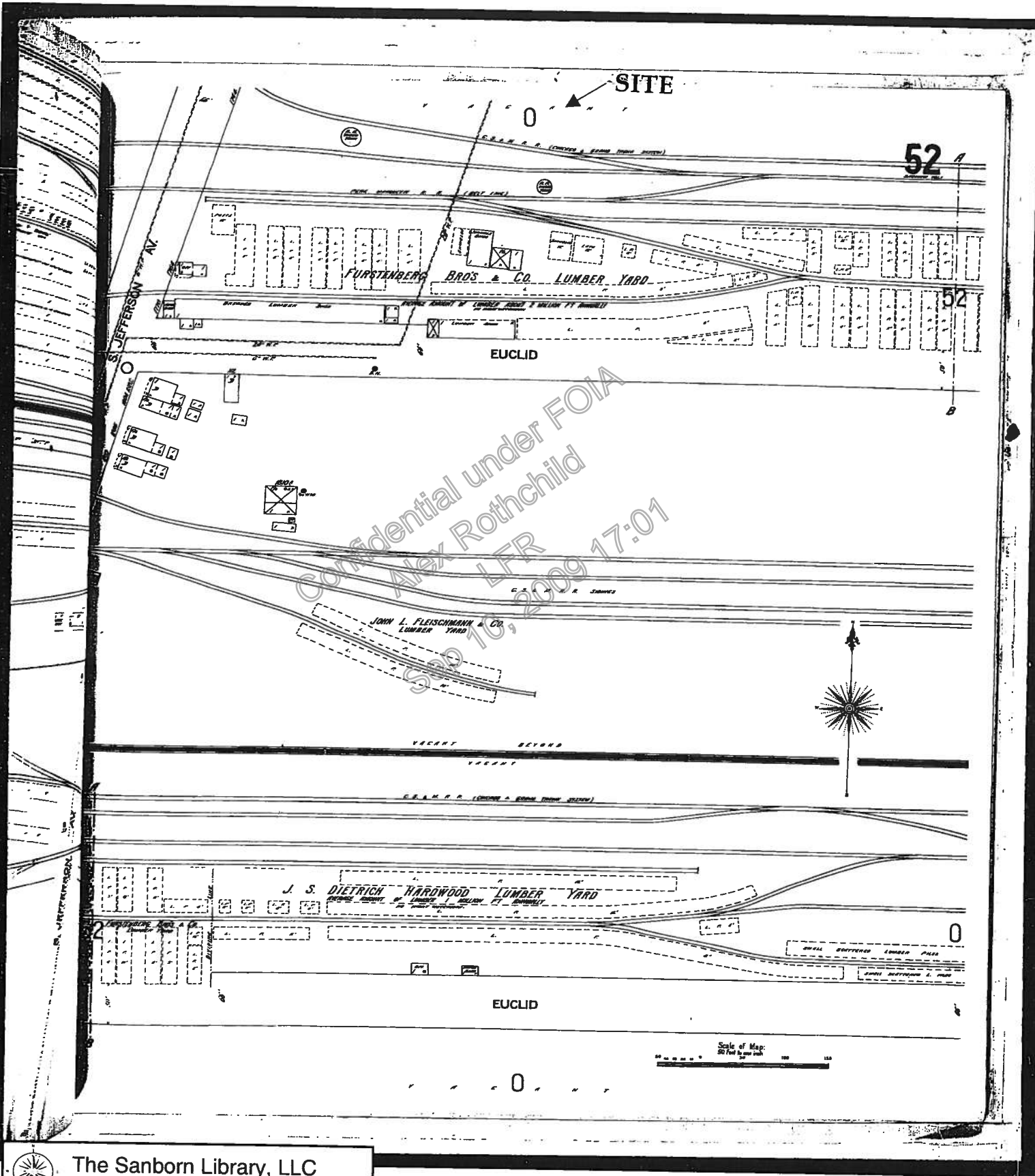
Acrobat Version 5

1. Go to the menu bar
2. Click the "Graphics Select Tool"
3. Draw a box around the area selected
4. Go to "Menu"
5. Highlight "Edit"
6. Highlight "Copy"
7. Go to Word Processor such as Microsoft Word, paste and print.




Important Information about Email Delivery of Electronic Sanborn Map Images

- Images are grouped into one file, up to 2MB.
- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as "1 of 3", "2 of 3", etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.



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LFR
Sep 10, 2009 17:01

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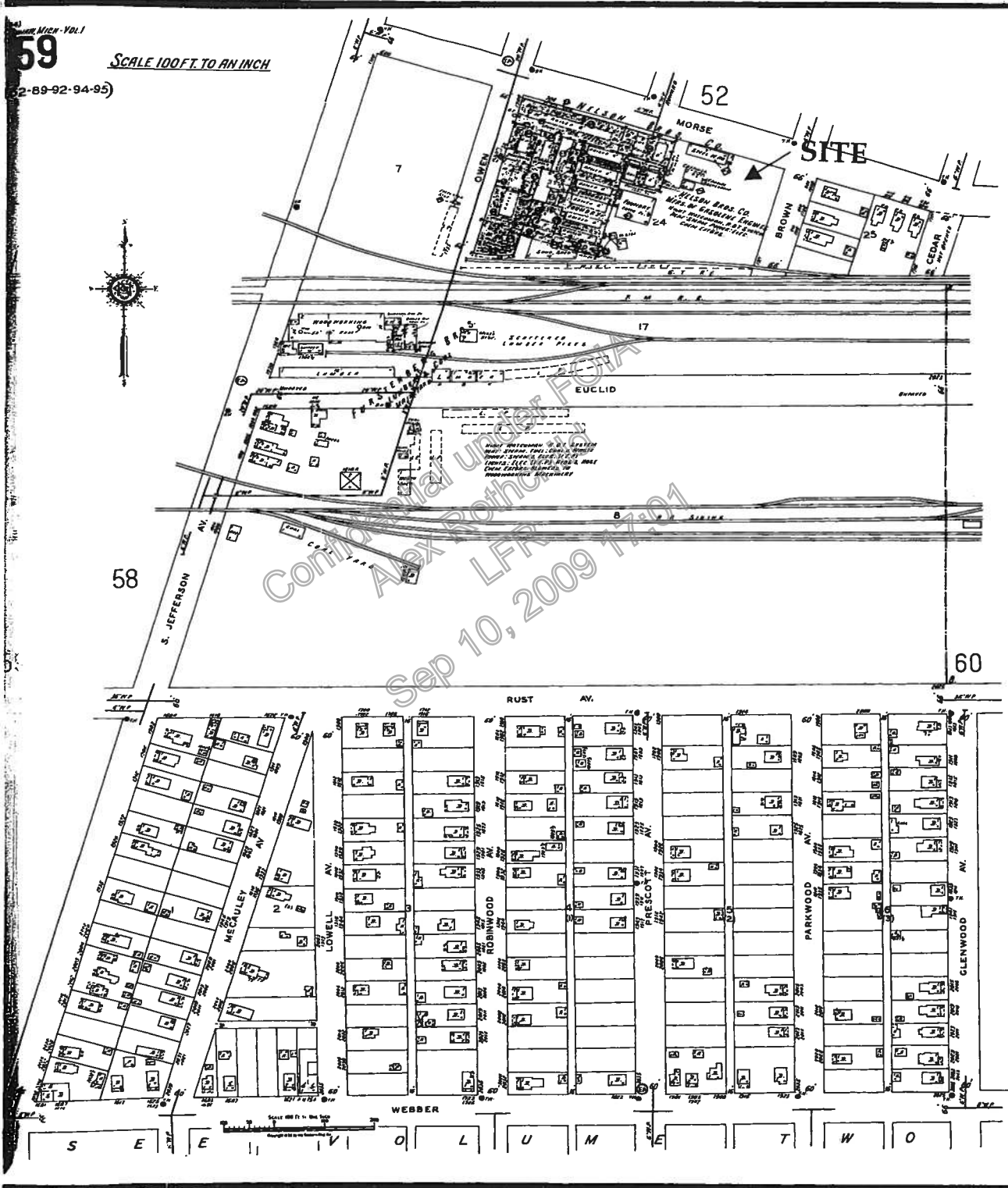
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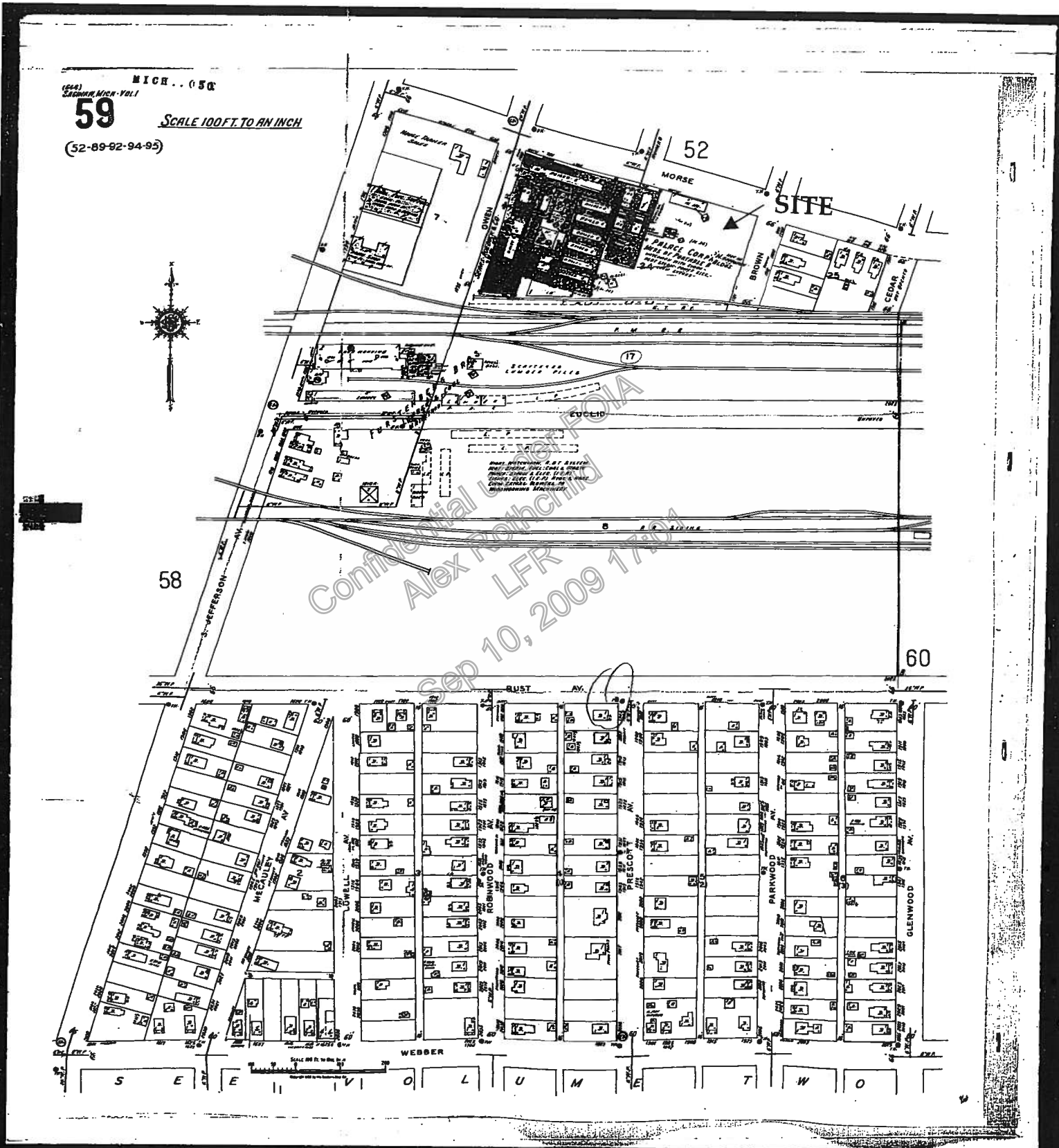
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
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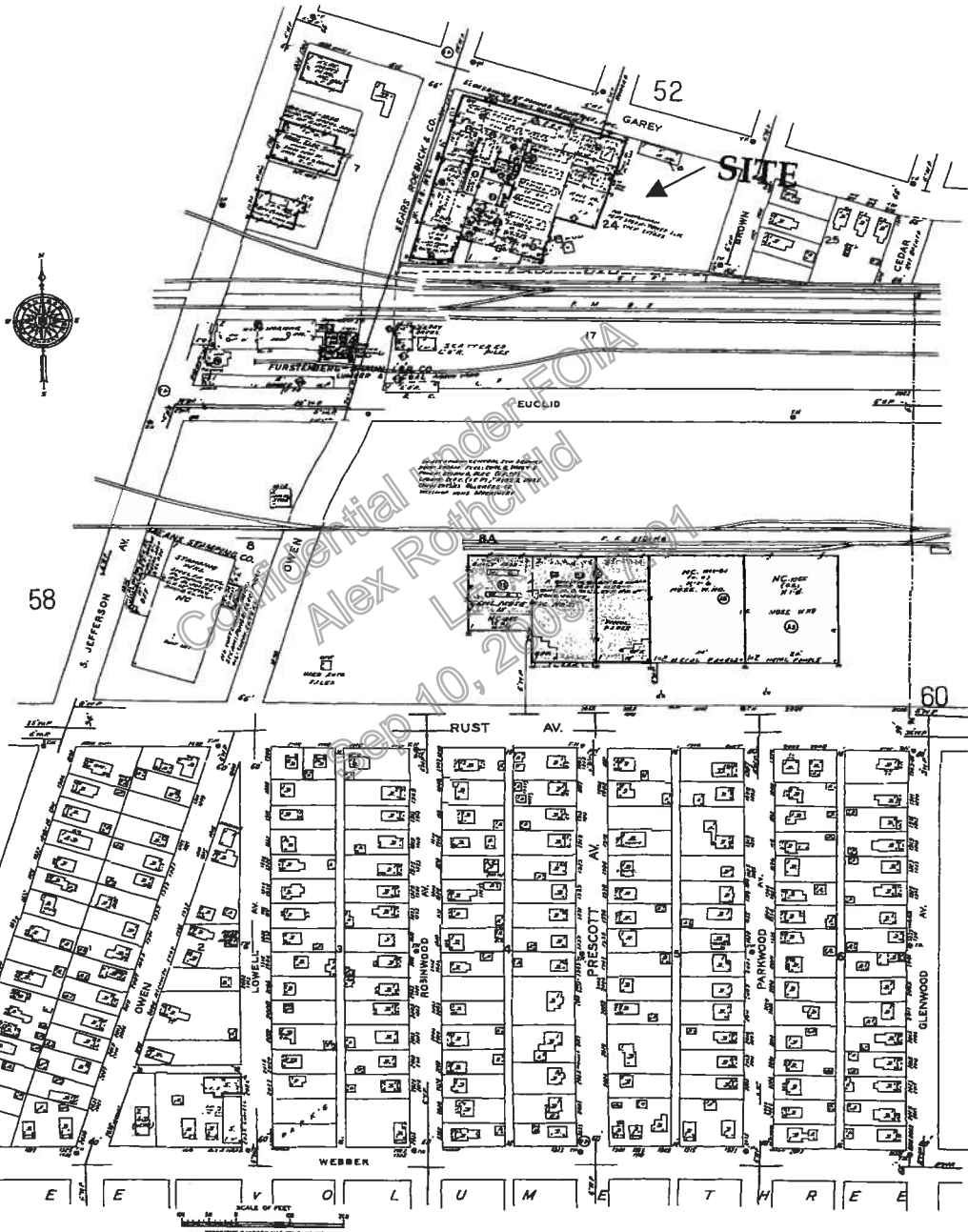





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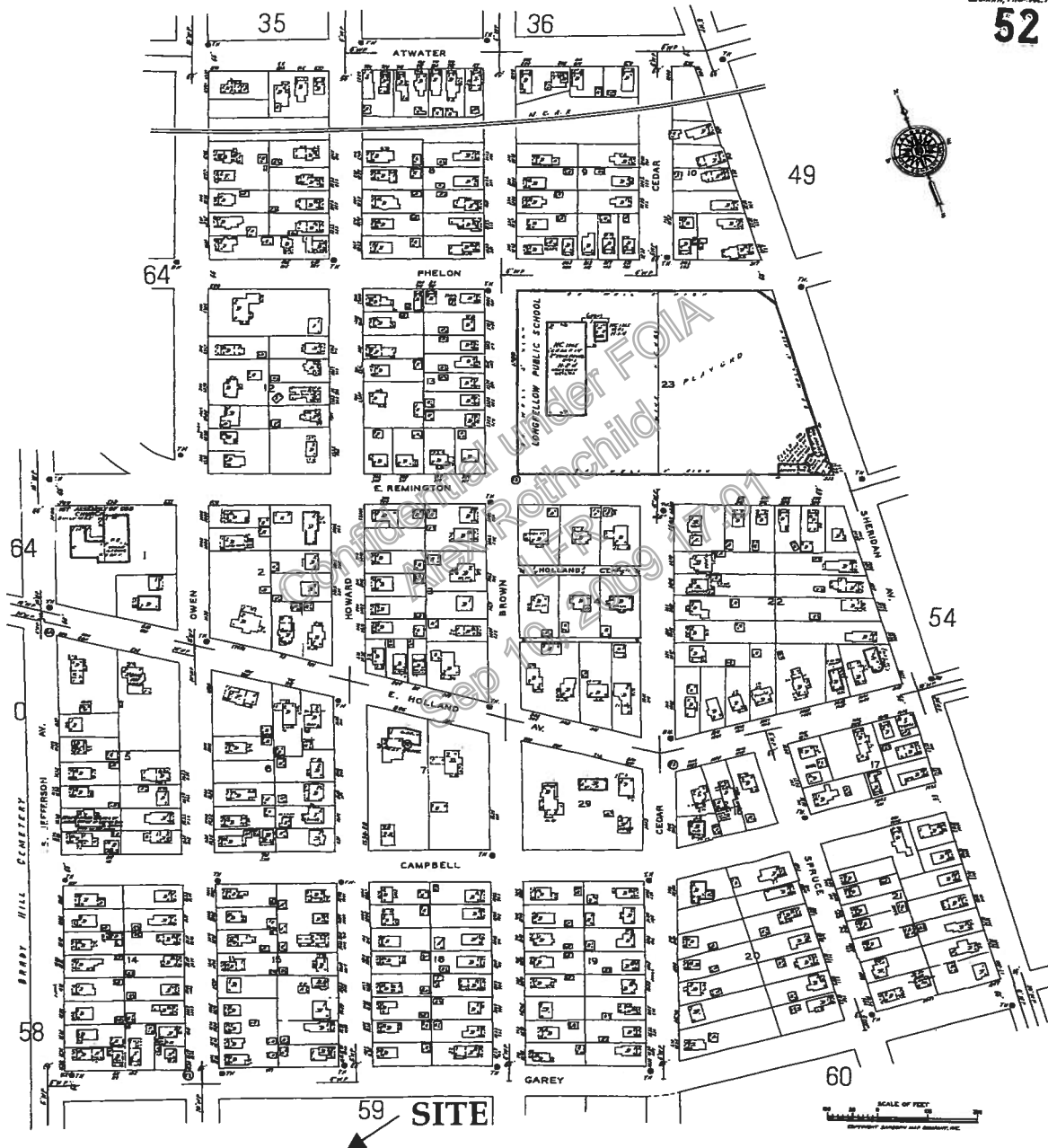


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Sheet No. 52



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APPENDIX D

TITLE SEARCH RESULTS

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LFR
Sep 10, 2009 17:01

April 25, 2006

Ms. Kelly Connolly
Conestoga-Rovers & Associates
8615 W. Bryn Mawr Avenue
Chicago, IL 60631

Subject: REFERENCE NO: 045285
HOWARD STREET WAREHOUSE PROPERTY
700 GAREY STREET
SAGINAW, MI 48601

Dear Ms. Connolly:

Public records on the subject real property identified above revealed the following information effective to April 17, 2006:

PROPERTY REPORT

ASSESSMENT

Location: Saginaw County
Land/Description: Parcel of Land
Parcel No. 08-0002-00000

DEEDS

1
Grantee(s): General Motors Corporation
(Buyer)
Grantor(s): Lydia M. Dunn f/k/a Lydia M. Doss,
(Seller) by Howard J. Doss II, her Attorney-In-Fact

Conveys: Parcel of Land

Date Executed: February 1, 1979
Date Recorded: February 2, 1979
DBV/PG: 1561/839

NOTE: Copy attached as Exhibit "A".

2
Grantee(s): Lydia Doss
(Buyer)

Grantor(s): Dallas E. Winslow, Inc.
(Seller)

Conveys: Parcel of Land

Date Executed: November 28, 1941
Date Recorded: December 3, 1941
Document Number: 636/394

EXAMINER'S NOTE

Public records of Saginaw County, Michigan were searched from January 1, 1940 to April 17, 2006, and no other deeds vesting title in the subject property were found of record during the period searched.

LEASES

None found of record at Saginaw County, Michigan Public Records Office.

EASEMENTS

Ordinance by City Council recorded December 23, 1919. Copy of pertinent pages from book attached as Exhibit "B".

ENVIRONMENTAL LIENS

None found of record at Saginaw County, Michigan Public Records Office.


LEGAL DESCRIPTION

Legal Description included on Exhibit "A"

We hope this information assists in your decision making process. If we can be of additional assistance, please do not hesitate to contact us at your convenience.

Cordially,

NCO FINANCIAL SYSTEMS, INC.
FINANCIAL INVESTIGATIVE SERVICES


Rachel Prince
Title Analyst

RP/rp
cc: David Ruh

NCO File #764206

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Alex Rothchild
LFR
Sep 10, 2009 17:01

TERMS AND CONDITIONS

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EXHIBIT A

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Alex Rothchild
LFR
Sep 10, 2009 17:01

Sep 10 2009

Saginaw County

STATE OF MICHIGAN

REAL ESTATE TRANSFER TAX

Dept. of TREASURY Taxation



231.00

★ ★ ★ ★ ★

2-P

RECORDED IN DEEDS

WARRANTY DEED - SING - 881 (Rev. 1967)

This Indenture, made February 1, 1979, BETWEEN LYDIA M. DUNN, formerly Lydia M. Doss, by Howard J. Doss II, her attorney-in-fact, of Apartment 1C-411 North Colony Drive, Saginaw, Michigan, party

and GENERAL MOTORS CORPORATION, a Delaware corporation having its principal office at 3044 West Grand Boulevard, Detroit, Michigan, party

of the first part, of the second part,

Witnesseth, That the said party of the first part, for and in consideration of

Two Hundred Ten Thousand and No/100 (\$210,000.00) Dollars, to him in hand paid by the said party of the second part, the receipt whereof is hereby acknowledged and certified, and in full discharge of all dues by these presents, grant, bargain, sell, remise, release, alien and confirm unto the said party of the second part, his heirs and assigns, forever, all that certain piece or parcel of land situate and being in the City of Saginaw County of Saginaw and State of Michigan, and described as follows, to-wit:

A parcel of land, being part of Block 6 and Block 7, all in Brewster Park Addition to the City of East Saginaw, now the City of Saginaw, Saginaw County, Michigan, and that part of Owen Street vacated by Saginaw City Council December 23, 1919, and that part of Howard Street, vacated by Saginaw City Council June 8, 1915, and that part of Morse (now known as Garey) Street vacated by Saginaw City Council December 24, 1935, described as follows: Commencing at the point of intersection of the West line of the Brown Street right-of-way and the North line of the Grand Trunk Western Railroad Company right-of-way; thence South 88° 21' 28" West, on said North line of the Grand Trunk Western Railroad Company right-of-way, 584.74 feet to the Easterly line of the existing Owen Street right-of-way, said Easterly line being the arc of a curve to the right having a radius of 488.67 feet; thence Northeasterly on said Easterly line of existing Owen Street and on the arc of said curve to the right, 60.26 feet to the point of tangency of said curve, said arc being subtended by a chord bearing North 11° 47' 04" East, 60.22 feet to said point of tangency; thence North 13° 19' 00" East, on said Easterly line of the existing Owen Street right-of-way, 326.17 feet to the South line of existing Garey Street right-of-way; thence South 74° 34' 23" East, on said South line of Garey Street, 15.00 feet to the Northwest corner of said Block 6 of said Brewster Park Addition, according to the Plat thereof recorded in Liber 38, Page 195 of Plats, Saginaw County Records; thence North 15° 19' 00" East, on the Northerly extension of the Westerly line of Block 6 of said Brewster Park Addition, 3.00 feet; thence South 74° 34' 23" East, on the North line of a 3.00 foot strip of said Morse (now Garey) Street vacated by Council December 24, 1935, and also on a line which is parallel to and 30.00 feet, measured at right angles, South of the centerline of said Garey Street right-of-way, 347.70 feet to said West line of Brown Street; thence South 15° 13' 51" West, on said West line of Brown Street, 217.63 feet to the point of beginning, containing 3.93 acres (171,009 square feet) of land and subject to all easements and reservations for utilities and structures, as stipulated by the Saginaw City Council Proceedings December 23, 1919, for vacated Owen Street and said Proceedings June 8, 1915, for vacated Howard Street.

Together with all and singular the hereditaments and appurtenances thereunto belonging or in anywise appertaining: To Have and to Hold the said premises, as herein described, with the appurtenances, unto the said party of the second part and to his heirs and assigns, forever. And the said party of the first part, for himself, his heirs, executors and administrators, does covenant, grant, bargain and agree to and with the said party of the second part, his heirs and assigns, that at the time of the delivery of these presents he is well seized of the above granted premises in fee simple; that they are free from all incumbrances whatever

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M-2 R 893 • 001.00 • TO

and that he will, and his heirs, executors, and administrators shall warrant and defend the same against all lawful claims whatsoever

When applicable, pronouns and relative words shall be read as plural, feminine or neuter. In Witness Whereof, The said party of the first part has hereunto set his hand the day and year first above written.

Signed, and Delivered in Presence of
J. Richard Kendrick
Luella Modrall

Lydia M. Dunn
LYDIA M. DUNN
Howard J. Doss II
HOWARD J. DOSS II, her attorney-in-fact

7/16

LIBER 1561 PAGE 040

STATE OF MICHIGAN)
COUNTY OF SAGINAW) SS

On February 1, 1979, before me, a Notary Public
in and for said County, personally appeared HOWARD J. DOSS II. to me known to
be the person who executed the foregoing instrument in behalf of Lydia M. Dunn,
and acknowledged that he executed the same as the free act and deed of said
Lydia M. Dunn.

Luella Madras
Notary Public, Saginaw County,
Michigan.

My commission expires: October 13, 1982

This instrument drafted by:
J. Richard Kendrick
812 2nd National Bank Building
Saginaw, Michigan 48607

Confidential under FOIA
Alex Rothchild
LFR
Sep 10, 2009 17:01

RECORDED
Feb 2 11 47 AM '79
Kendrick
NOTARY PUBLIC

EXHIBIT B

Confidential under FOIA
Alex Rothchild
LFR
Sep 10, 2009 17:01

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DECEMBER 22, 1919.

13/16
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Mercer—5.
Nays: 0.

REPORTS FROM BOARDS.
To the Honorable, the Council of the City of Saginaw.
Gentlemen:—At a meeting of the Board of Estimates held Thursday, December 18, 1919, the following action was taken.

Respectfully,
E. S. GAY, City Clerk.
The Board approved of an additional appropriation in the sum of \$100 for the purposes of Item No. 11, Health Department Fund, said sum to be taken from any unappropriated, unencumbered balance to the credit of said fund on June 30, 1919, in accordance with the resolution of President Mercer, Council Pro. page 606.

The Board approved of an additional appropriation in the sum of \$1500.00 for the purpose of paying the cost and expense incident to the present water supply investigation, said sum to be taken from any unappropriated, unencumbered balance of the Water East and Water West Funds, respectively, and credited to the following items, viz:
Item No. 6-A, Water East Fund \$1,000 00
Item No. 6-A, Water West Fund 500 00
All in accordance with the resolution of Councilman Johnson, Council pro. page 536.

FRED J. BUCKHOUT,
President of the Board,
E. S. GAY,
Clerk of the Board,
Received and filed.

NOTICES.
President Mercer:
I take notice that I will at this meeting of the Council introduce an ordinance entitled "An Ordinance to amend Section One of Ordinance Number B-85, Entitled "An Ordinance to Regulate the Running and Stopping of Street Cars Within the Limits of the City of Saginaw."
Received and filed.

INTRODUCTION OF ORDINANCES.
Pursuant to previous notice President Mercer introduced an ordinance entitled "An Ordinance to amend Section One of Ordinance Number B-85, entitled "An Ordinance to Regulate the Running and Stopping of Street Cars Within the Limits of the City of

Saginaw,"
Received and filed.
CONSIDERATION AND PASSAGE OF ORDINANCES.

Councilman Holcomb moved that an ordinance entitled "An Ordinance Vacating that Portion of Owen Street between Morse Street and the North Line of the Right of Way of the Grand Trunk Railway" be taken up.

Adopted by the following vote:
Ayes: Councilmen Hammel, Holcomb, Johnson, Phoenix and President Mercer—5.
Nays: None.

Councilman Holcomb moved that the ordinance pass to its second reading.

Adopted by the following vote:
Ayes: Councilmen Hammel, Holcomb, Johnson, Phoenix and President Mercer—5.
Nays: None.

The ordinance was thereupon read for a second time as follows:

AN ORDINANCE VACATING THAT PORTION OF OWEN STREET BETWEEN MORSE STREET AND THE NORTH LINE OF THE RIGHT OF WAY OF THE GRAND TRUNK RAILWAY. BE IT ORDAINED BY THE CITY OF SAGINAW:

Section 1.—That that portion of Owen Street lying between Morse Street and the North line of the right of way of the Grand Trunk Railway be and the same is hereby vacated as a public highway; reserving to the City rights of way for all sewer, water and all public utility pipes and conduits, and further reserving to the City the power to protect its said right of way for said sewer, water and public utility pipes and conduits by requiring, before any building or other structure or works shall be built or installed on or over said right of way, that said sewer, water and public utility pipes and conduits shall be rendered at all times accessible, or that the same be protected, in such manner as the City Engineer, or other officer of like jurisdiction, shall require, without expense to the City.

Councilman Holcomb moved that the ordinance be now made, passed and adopted, and the question being stated "Shall this Ordinance be now made, passed and adopted?"

14/16

the same was made, passed and adopted by the following vote:

Ayes: Councilmen Hammel, Holcomb, Johnson and President Mercer—4.

Nays: Councilman Phoenix—1.

RESOLUTIONS.

By Councilman Johnson:

Resolved, That Rule One of the Rules of the Council (C. P. 1214, page 125) be suspended from this date until and including March 30, 1920, and that during that period all meetings of the Council be held in the Justice Court Room, and that the regular weekly meetings be held on Tuesday of each week at 2:30 o'clock p. m.

Councilman Holcomb moved the adoption of the resolution.

Councilman Phoenix moved that the resolution be amended by striking out the figures 2:30 and inserting in lieu thereof the figures 7:30.

Lost by the following vote:

Ayes: Councilmen Hammel and Phoenix—2.

Nays: Councilmen Holcomb, Johnson and Pres. Mercer—3.

The original motion was then put and adopted by the following vote:

Ayes: Councilmen Holcomb, Johnson, Phoenix and Pres. Mercer—4.

Nays: Councilman Hammel—1.

MOTIONS AND MISCELLANEOUS BUSINESS.

President Mercer called Vice Pres. Holcomb to the chair.

Vice President assumed the chair.

President Mercer assumed the chair. J. Buckhout Mayor of the Board for a term of five years beginning January 1, 1920.

Those voting for Buckhout were Councilmen Holcomb, Johnson, Pres. Mercer—3.

Fred J. Buckhout was the unanimous vote and was thereupon declared a member of the Board for a term of five (5) years beginning January 1, 1920.

President Mercer assumed the chair.

Councilman Holcomb moved that Devillo E. Denison be appointed a member of the Board of Public Works for a term of five (5) years beginning January 1, 1920.

Those voting for Devillo Denison were Councilmen Holcomb, Johnson, Phoenix and Pres. Mercer—4.

Devillo E. Denison having received the unanimous vote of the Council was thereupon appointed a member of the Board of Public Works for a term of five (5) years beginning January 1, 1920.

On motion the Council adjourned.

H. S. GAY, City Clerk.

R. N. MERCER, Mayor.

Meeting of City of Saginaw Tuesday, Dec 23, 1919. Council, pursuant to call by said body, held Tuesday, Dec 23, 1919, in the Justice Court Room, and was presided over by President Mercer. Council present—Councilmen Holcomb, Johnson, Phoenix, Mercer. Absent—None. The minutes of the meeting held Tuesday, December 22, 1919, were approved.

PETITIONS AND RESOLUTIONS.

111. Rev. L. Brauer, urging the Council to permit to John I. Street a modern tract at 2447 North Michigan. Referred to the committee.

112. Flint, Mich. Honorable Mayor of Saginaw, Michigan. Gentlemen—Owning conditions it is proposed that part of lot 21, avenue B tract for which Oct. 21, 1919. Will you kindly grant time to conform tract to June 1. Thanking you for courtesy and prompt attention. Very truly yours, THE GLOOM CO.

Councilman Johnson communicated that the time for said contract is 20, 1920.

Adopted by the Council—Councilmen Holcomb, Johnson, and Mercer—3.

Nays—None.

To the Honorable City of Saginaw, Michigan. Gentlemen—Owning conditions it is proposed that part of lot 21, avenue B tract for which Oct. 21, 1919. Will you kindly grant time to conform tract to June 1. Thanking you for courtesy and prompt attention. Very truly yours, THE GLOOM CO.

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Sep 10, 2009 17:01

15/16

JUNE 8, 1915

878

Two Dollars and Ninety-four Cents Together with Other Unappropriated Available Funds for the Use of the Several Departments, Officers and Boards of the City of Saginaw for the Purpose of Defraying and Paying all Costs and Expenses of Every Kind and Nature Incident to its Every Municipal Function for the Fiscal Year Ending June 30th, 1915." be taken up.

Adopted by the following vote:
Ayes: Councilmen Holcomb, Jahnke, Johnson, Reins, Pres. Paddock—5.
Nays: None.

Councilman Jahnke moved that the ordinance pass to its first reading.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Jahnke, Johnson, Reins, Pres. Paddock—5.
Nays: None.

The ordinance was thereupon read for a first time.

RESOLUTIONS.

By Councilman Jahnke:
Resolved, That the Mayor be authorized to employ a competent accountant to make an audit of the books of all city departments from Jan. 1, 1915 to June 30, 1915. Inclusive.

Councilman Johnson moved the adoption of the resolution.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Jahnke, Johnson, Reins, Pres. Paddock—5.
Nays: None.

By Councilman Jahnke:
Whereas the present contract for the publication of all proceedings of the Council and Boards of the City of Saginaw together with all ordinances, resolutions and all doings or matters required to be published will expire by limitation June 30th, 1915.

Resolved, That the Commissioner of Finance be and he is hereby authorized to proceed with the letting of a contract upon competitive bids, according to the terms of the Charter for the publication of all proceedings of the Council and Boards, together with all ordinances, resolutions and all doings or matters required to be published, to a daily newspaper, published in the City of Saginaw, and further that the amount in cash or certified check required to be deposited with each bid be fixed at the

sum of FIVE HUNDRED DOLLARS, and further that the successful bidder be required to furnish a Surety Company bond to secure the faithful performance of the contract in the sum of not less than twenty-five (25) per cent of the amount of the contract, and further that the time for receiving such bids be fixed for Tuesday, June 15th, 1915.

Councilman Johnson moved the adoption of the resolution.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Jahnke, Johnson, Reins, Pres. Paddock—5.
Nays: None.

By President Paddock:
Whereas, The Charter provides that the Commissioner of Health and Safety shall have supervision over the Poor Department, and,

Whereas, No provision is made by the Charter or by ordinance for the office of Director of the Poor, Now therefore be it

Resolved, That the office of Director of the Poor as it existed under the former charter and has been temporarily continued under the present Charter, be, and the same is hereby abolished and terminated.

Councilman Jahnke moved the adoption of the resolution.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Jahnke, Johnson, Reins, Pres. Paddock—5.
Nays: None.

By Councilman Holcomb:
Resolved, That all that portion of Howard street, between blocks (6) and seven (7), Brewster Park and south of the south line of Morse street, be and the same is hereby vacated for and so long only as same shall be used for and occupied by buildings for manufacturing purposes, reserving and saving unto the City at all times rights of way along and under said vacated street for sewer, gas, water and other utility service pipes and conduits.

Councilman Johnson moved the adoption of the resolution.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Johnson, Reins, Pres. Paddock—5.
Nays: None.

By Councilman Johnson:
Resolved, By the Council of the City of Saginaw, that the

tion of a lot Germania avenue, T Eleventh street, in the Eleventh District, of the City of Saginaw, and hereinafter described, is hereby declared to be a public improvement, and the construction of a lateral sewer between the pole and, is hereby ordered by the proper, manhole sewer basins and exit

Said sewer shall be center of said Germania constructed of 12-inch. The work shall be conform to detail plans to be hereafter by the Commissioner of Light Sewers, and approved

Resolved, Further, That it be determined that the cost of the construction of sewer basins, and extending the cost of making and other expenses (not to be deducted from the lands to be benefited) shall be made according to the advantage which the property is derived from the making of said sewer, and the benefits derived therefrom; and,

Resolved, Further, That the Commissioner of Light Sewers, and is hereby directed to make and specifications of the probable cost of labor and material to be prepared, and presented to the Council.

Councilman Jahnke moved the adoption of the resolution.
Adopted by the following vote:
Ayes: Councilmen Holcomb, Johnson, Reins, Pres. Paddock—5.
Nays: None.

By Councilman Johnson:
Resolved, By the Council of the City of Saginaw, that the construction of a lateral sewer between the pole and, is hereby ordered by the proper, manhole sewer basins and exit

16/16

JUNE 9, 1915

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the resolution,
by the following vote:
ouncilmen Holcomb, Jahnke,
Reina, Pres. Paddock—5.
ne.

nan Holcomb:
That all that portion
bet, between blocks
on (?) Browster Park Ad
south of the south line of
be and the same is her
for and so long only as
is used for and occupied
for manufacturing pur
ving and saving unto the
times rights of way in
ider said vacated street
s, water and other pub
lica and conduits.
Johnson moved the
the resolution,
the following vote:
ouncilmen Holcomb, Jahnke,
Reina, Pres. Paddock—5.

an Johnson:
y the Council of the
w, that the construc-

a lateral sewer in
avenue, Tenth street to
street, in the Eastern Tax
District, of the dimensions, and
material, and in the manner
after described, is deemed and
declared to be a necessary
improvement, and the con-
struction of a lateral sewer in said
street, between the points above nam-
ed, is hereby ordered together with
proper manholes, connections,
basins and extensions,
Said sewer shall be located in the
center of said Germania avenue, and
constructed of 12-inch concrete pipe.

The work shall be done in con-
formity to detail plans and specifica-
tions to be hereafter prepared by the
Commissioner of Light, Water and
Sewers, and approved by the Council.

Resolved, Further, That it is here-
by determined that the whole expense
of the construction of said lateral
sewer, basins, and extensions, includ-
ing the cost of making assessments
and other expenses incidental thereto,
shall be defrayed by an assessment
on the lands to be benefited thereby,
to be made according to the benefit
and advantage which each descrip-
tion of property is deemed to receive
by the making of said improvement;
provided such assessment shall not
exceed the benefits derived from said
improvement; and.

Resolved, Further, That the Com-
missioner of Light, Water and Sew-
ers be and is hereby directed to cause
plans and specifications and an esti-
mate of the probable cost and ex-
pense of labor and material for said
work to be prepared, and submit the
same to the Council.

Councilman Jahnke moved the
adoption of the resolution.
Adopted by the following vote:
Aye: Councilmen Holcomb, Jahnke,
Johnson, Reina, Pres. Paddock—5.
Nays: None.

By Councilman Johnson:
Resolved, By the Council of the
City of Saginaw, that the construc-
tion of a lateral sewer in
Fordney avenue, Webber street to
Linton street, in the Eastern Taxing
District, of the dimensions, and of the
material, and in the manner herein-
after described, is deemed and is
hereby declared to be a necessary
public improvement, and the con-
struction of a lateral sewer in said

street, between the points above
named, is hereby ordered together
with the proper manholes, connec-
tions, sewer basins and extensions.

Said sewer shall be located in the
center of said Fordney avenue, and
constructed of 12-inch concrete pipe.

The work shall be done in con-
formity to detail plans and specifica-
tions to be hereafter prepared by the
Commissioner of Light, Water and
Sewers, and approved by the Council.

Resolved, Further, That it is here-
by determined that the whole expense
of the construction of said lateral
sewer, basins, and extensions, includ-
ing the cost of making assessments
and other expenses incidental thereto,
shall be defrayed by an assessment
on the lands to be benefited thereby,
to be made according to the benefit
and advantage which each descrip-
tion of property is deemed to receive
by the making of said improvement;
provided such assessment shall not
exceed the benefits derived from said
improvement; and.

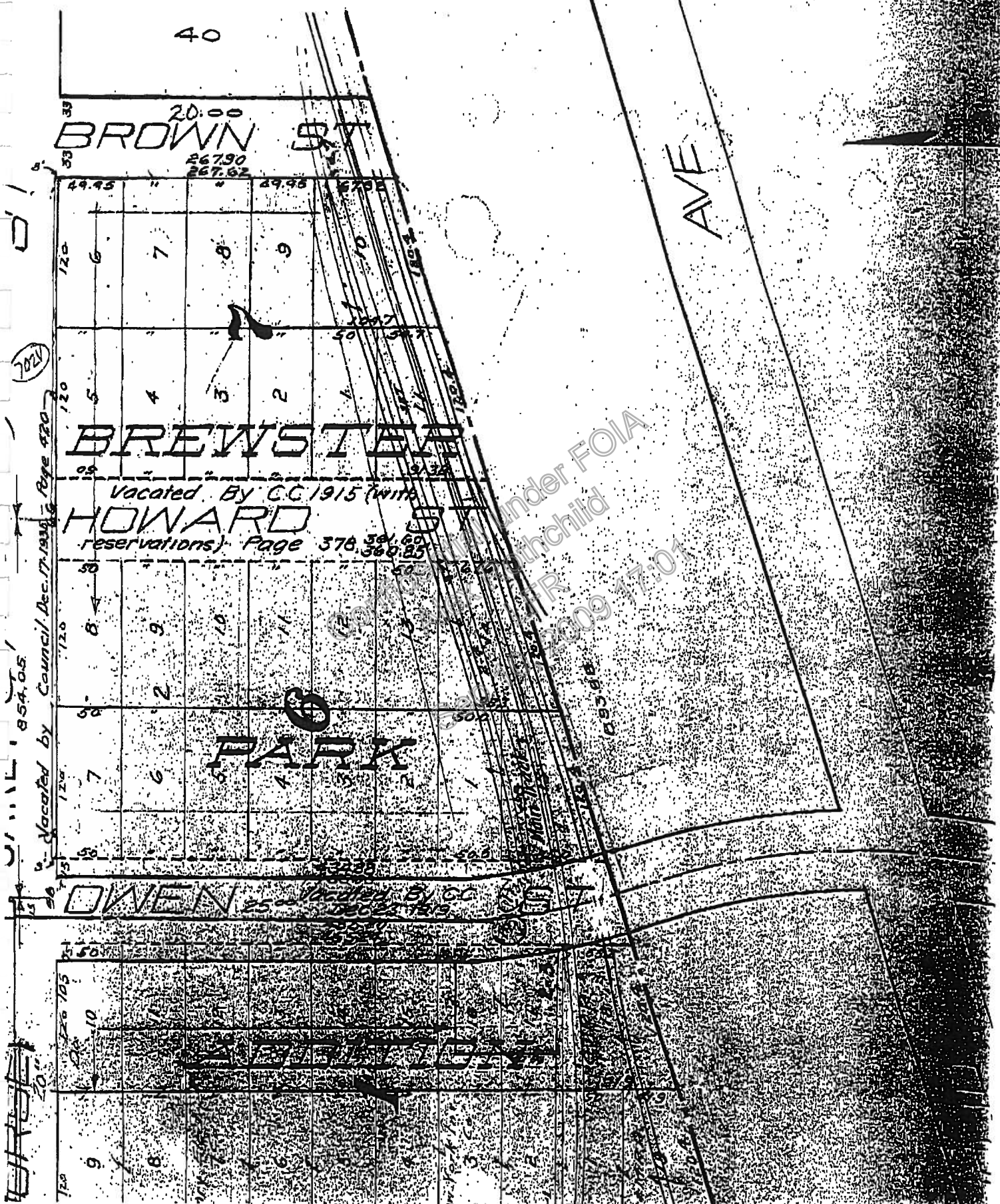
Resolved, Further, That the Com-
missioner of Light, Water and Sew-
ers be and is hereby directed to cause
plans and specifications and an esti-
mate of the probable cost and ex-
pense of labor and material for said
work to be prepared, and submit the
same to the Council.

Councilman Jahnke moved the
adoption of the resolution.
Adopted by the following vote:
Aye: Councilmen Holcomb, Jahnke,
Johnson, Reina, Pres. Paddock—5.
Nays: None.

By Councilman Johnson:
Resolved, By the Council of the
City of Saginaw, that the construc-
tion of a lateral sewer in
Spruce street, Holland avenue to
Morro street, in the Eastern Taxing
District, of the dimensions, and of the
material, and in the manner herein-
after described, is deemed and is
hereby declared to be a necessary
public improvement, and the con-
struction of a lateral sewer in said
street, between the points above
named, is hereby ordered together
with the proper manholes, connec-
tions, sewer basins and extensions.

Said sewer shall be located in the
center of Spruce street, and con-
structed of 12-inch concrete pipe.

12/16



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APPENDIX E
HISTORIC AERIAL PHOTOGRAPHS

Confidential under FOIA
Alex Rothchild
LFR
Sep 10, 2009 17:01



EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**045285 - Saginaw, MI
700 Garey Street
Saginaw, MI 48601**

Inquiry Number: 1656167.5

April 20, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06461**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

THE EDR AERIAL PHOTO DECADE PACKAGE

Environmental Data Resources, Inc.'s (EDR) Aerial Photography Print Service 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 at one photo per decade.

References

EPAs Standards and Practices for All Appropriate Inquiries (AAI), section 312.24, identifies the historical sources of information necessary to achieve the objectives and performance factors of section 312.20. According to AAI, "historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

To meet the prior use requirements of ASTM E 1527-05, Section 8.3.2, the following standard *historical sources* may be used: aerial photographs, fire insurance maps, property tax files, land title records (although these cannot be the sole historical source consulted), topographic maps, city directories, building department records, or zoning/land use records. ASTM E 1527-05, Section 8.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. ASTM E 1527-05 requires "All obvious uses of the property shall be identified from the present, back to the property's first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary and both reasonably ascertainable and likely to be useful." (ASTM E 1527-05, Section 8.3.2) Reasonably ascertainable means information that is publicly available, obtainable from a source within reasonable time and cost constraints, and practically reviewable.

Data Gaps

In order to address *data gaps*, additional sources of information may be consulted. According to the AAI, Section 312.20 (g), "to the extent there are data gaps (as defined in section 312.10) in the information developed...that affect the ability of persons (including the environmental professional) conducting the all appropriate inquiries to identify conditions indicative of releases or threatened releases...such persons should identify such data gaps, identify the sources of information consulted to address such data gaps, and comment upon the significance of such data gaps." According to ASTM E 1527-05, Section 8.3.2.3, "historical research is complete when either: (1) the objectives in 8.3.1 through 8.3.2.2 are achieved; or (2) data failure is encountered. Data failure occurs when all of the standard historical sources that are reasonably ascertainable and likely to be useful have been reviewed and yet the objectives have not been met...If data failure is encountered, the report shall document the failure and, if any of the standard historical sources were excluded, give the reasons for their exclusion."

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.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography April 20, 2006

Target Property:

700 Garey Street
Saginaw, MI 48601

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1941	Aerial Photograph. Scale: 1"=500'	Flight Year: 1941	AAA
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	PMA
1963	Aerial Photograph. Scale: 1"=500'	Flight Year: 1963 Photo Not Available - Image missing from collection	ASCS
1970	Aerial Photograph. Scale: 1"=600'	Flight Year: 1970	ASCS
1980	Aerial Photograph. Scale: 1"=600'	Flight Year: 1980	ASCS
1992	Aerial Photograph. Scale: unknown	Flight Year: 1992	FSA
1996	Aerial Photograph. Scale: unknown	Flight Year: 1996	FSA

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Alex Rothchild
LFR
Sep 10, 2009 17:01



INQUIRY #: 1656167.5

YEAR: 1941

— = 500'



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Sep 19 2009 17:01



INQUIRY #: 1656167.5

YEAR: 1950

— = 500'





INQUIRY #: 1656167.5

YEAR: 1970

= 600'

N

ESRI

LFR
Sep 10, 2009 17:01



INQUIRY #: 1656167.5

YEAR: 1980

— = 600'



LFR
Sep 10, 2009 17:01

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LFR
Sep 10, 2009 17:01



INQUIRY #: 1656167.5

YEAR: 1992

— = unknown





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LFR
Sep 10, 2009 17:01

INQUIRY #: 1656167.5

YEAR: 1996

 = unknown



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**APPENDIX F
HISTORIC TOPOGRAPHIC MAPS**

Confidential under FOIA
Alex Rothchild
LFR
Sep 10, 2009 17:01

*Martha Stanton
Lanning*



EDR™ Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**045285 - Saginaw, MI
700 Garey Street
Saginaw, MI 48601**

Inquiry Number: 1656167.4

April 18, 2006

The Standard in Environmental Risk Management Information

**440 Wheelers Farms Road
Milford, Connecticut 06460**

Nationwide Customer Service

**Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com**

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.'s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property, and its surrounding area, resulting from past activities. ASTM E 1527-00, Section 7.3 on Historical Use Information, identifies the prior use requirements for a Phase I environmental site assessment. The ASTM standard requires a review of *reasonably ascertainable standard historical sources*. *Reasonably ascertainable is defined as information that is publicly available, obtainable from a source with reasonable time and cost constraints, and practically reviewable*. To meet the prior use requirements of ASTM E 1527-00, Section 7.3.4, the following *standard historical sources* may be used: aerial photographs, city directories, fire insurance maps, topographic maps, property tax files, land title records (although these cannot be the sole historical source consulted), building department records, or zoning/and use records. ASTM E 1527-00 requires *"All obvious uses of the property shall be identified from the present, back to the property's obvious first developed use, or back to 1940, whichever is earlier. This task requires reviewing only as many of the standard historical sources as are necessary, and that are reasonably ascertainable and likely to be useful."* (ASTM E 1527-00, Section 7.3.2 page 12.)

EDR's Historical Topographic Map Report includes a search of available public and private color historical topographic map collections.

Topographic Maps

A topographic map (topo) is a color coded line-and-symbol representation of natural and selected artificial features plotted to a scale. Topos show the shape, elevation, and development of the terrain in precise detail by using contour lines and color coded symbols. Many features are shown by lines that may be straight, curved, solid, dashed, dotted, or in any combination. The colors of the lines usually indicate similar classes of information. For example, topographic contours (brown); lakes, streams, irrigation ditches, etc. (blue); land grids and important roads (red); secondary roads and trails, railroads, boundaries, etc. (black); and features that have been updated using aerial photography, but not field verified, such as disturbed land areas (e.g., gravel pits) and newly developed water bodies (purple).

For more than a century, the USGS has been creating and revising topographic maps for the entire country at a variety of scales. There are about 60,000 U.S. Geological Survey (USGS) produced topo maps covering the United States. Each map covers a specific quadrangle (quad) defined as a four-sided area bounded by latitude and longitude. Historical topographic maps are a valuable historical resource for documenting the prior use of a property and its surrounding area, and due to their frequent availability can be particularly helpful when other standard historical sources (such as city directories, fire insurance maps, or aerial photographs) are not reasonably ascertainable.

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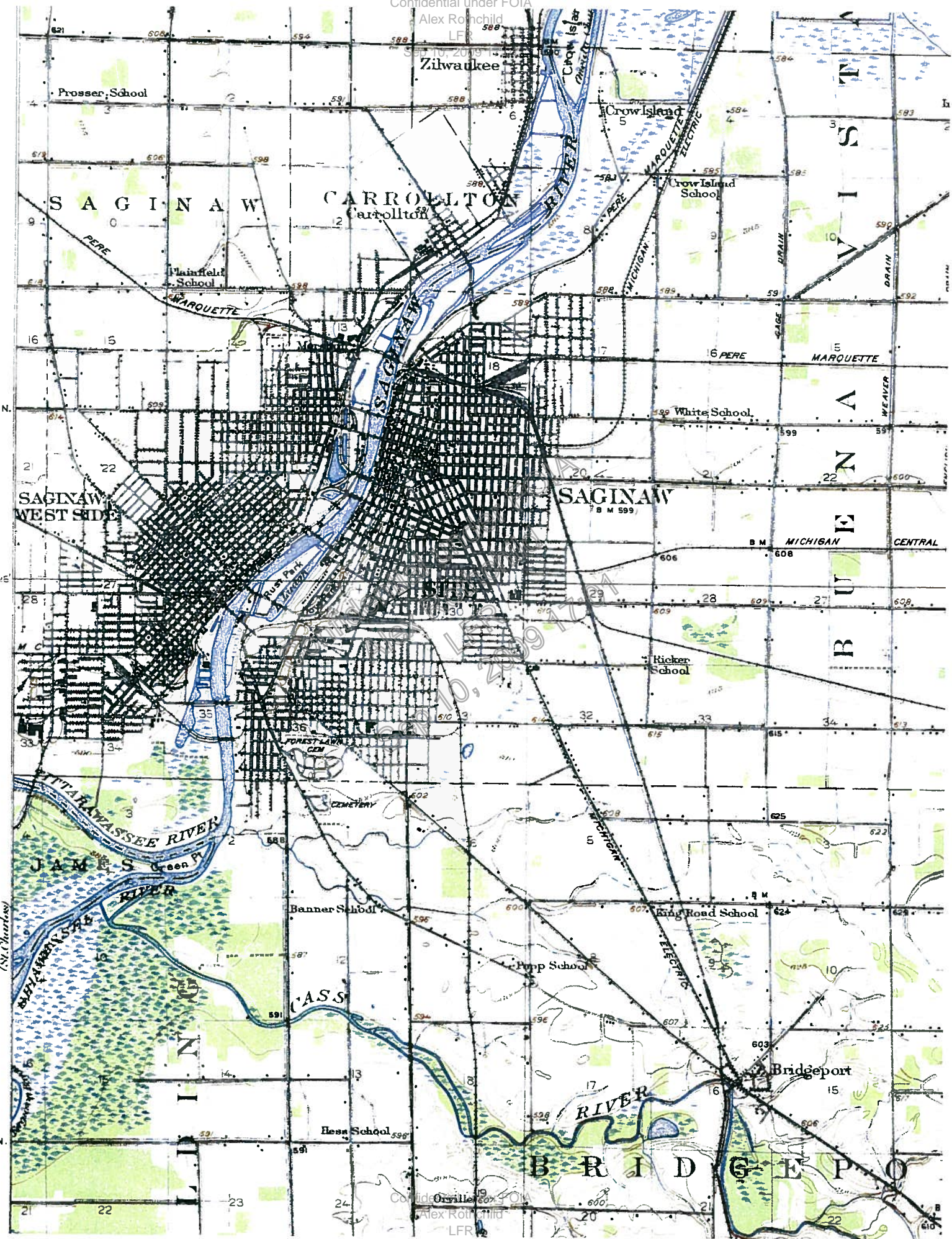
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Alex Rothchild LFR

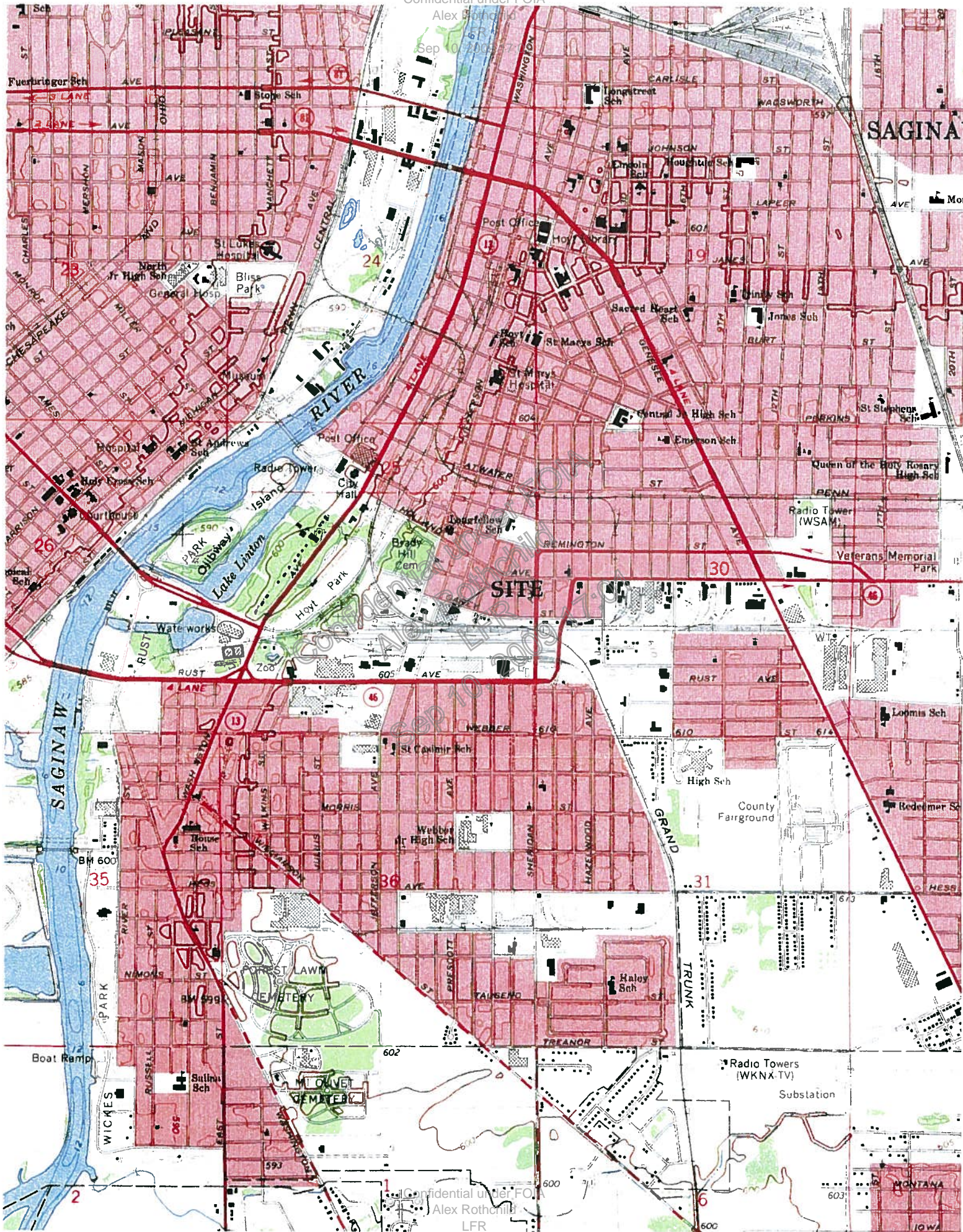
Sept 10, 2009 17:01

Zilwaukee



Sept 10, 2009 17:01

Alex Rothchild LFR





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APPENDIX G
CITY DIRECTORY SEARCH RESULTS

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Alex Rothchild
LFR
Sep 10, 2009 17:01



EDR® Environmental
Data Resources Inc

The EDR-City Directory
Abstract

045285 - Saginaw MI
700 Garey Street
Saginaw, MI 48601

Inquiry Number: 1656167.6

Thursday, April 20, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Alex Rothchild
LFR
Sep 10, 2009 17:01

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract 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 Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

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Alex Rothchild
LFR
Sep 10, 2009 17:01

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1902 through 2005. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

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Alex Rothchild
LFR
Sep 10, 2009 17:01

Date EDR Searched Historical Sources: 4/20/2006

Target Property:
700 Garey Street
Saginaw, MI 48601

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1902	Address Not Listed in Research Source	Polk's City Directory
1906	Address Not Listed in Research Source	Polk's City Directory
1913	Address Not Listed in Research Source	Polk's City Directory
1919	Address Not Listed in Research Source	Polk's City Directory
1924	Address Not Listed in Research Source	Polk's City Directory
1929	Address Not Listed in Research Source	Polk's City Directory
1934	Address Not Listed in Research Source	Polk's City Directory
1939	Address Not Listed in Research Source	Polk's City Directory
1944	Address Not Listed in Research Source	Polk's City Directory
1950	Address Not Listed in Research Source	Polk's City Directory
1955	Address Not Listed in Research Source	Polk's City Directory
1959	Address Not Listed in Research Source	Polk's City Directory
1964	Address Not Listed in Research Source	Polk's City Directory
1969	Address Not Listed in Research Source	Polk's City Directory
1974	Address Not Listed in Research Source	Polk's City Directory
1979	Address Not Listed in Research Source	Polk's City Directory
1984	Address Not Listed in Research Source	Polk's City Directory
1989	Address Not Listed in Research Source	Polk's City Directory
1995	Address Not Listed in Research Source	Polk's City Directory

1656167-6

2

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2000	Address Not Listed in Research Source	Polk's City Directory
2005	Address Not Listed in Research Source	Polk's City Directory

Adjoining Properties

SURROUNDING

Multiple Addresses
Saginaw, MI 48601

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1902	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
1906	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
1913	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
1919	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	-No Addresses Listed in Research Source - STREETS ONLY	Polk's City Directory
1924	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory

1656167-6

3

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1924	Address not listed in research source (611)	Polk's City Directory
	Address not listed in research source (613)	Polk's City Directory
	Address not listed in research source (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Nelson Bros. Co. (gas engine mfrs.) (se cor) (Unnumbered)	Polk's City Directory
	Address not listed in research source (704)	Polk's City Directory
	-All Addresses on Garey Street Renumbered	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Address not listed in research source (1638)	Polk's City Directory
	-All Addresses on Owen Renumbered	Polk's City Directory
1929	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Address not listed in research source (611)	Polk's City Directory
	Address not listed in research source (613)	Polk's City Directory
	Address not listed in research source (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Nelson Bros. Co. (gas engine mfrs.) (se cor) (Unnumbered)	Polk's City Directory
	Address not listed in research source (704)	Polk's City Directory
	-All Addresses on Garey Street Renumbered	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Address not listed in research source (1638)	Polk's City Directory

1656167-6

4

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1929	-All Addresses on Owen Renumbered	Polk's City Directory
1934	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Vacant (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Nelson Bros. Co. (gas engine mfrs.) (se cor) (Unnumbered)	Polk's City Directory
	Address not listed in research source (704)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Otto Leitow (dairy) (1638)	Polk's City Directory
1939	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Nelson Bros. Co. (gas engine mfrs.) (se cor) (Unnumbered)	Polk's City Directory
	Address not listed in research source (704)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory

1656167-6

5

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1939	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Residence (1638)	Polk's City Directory
1944	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Howard Industries (auto trailer mfrs.) (704)	Polk's City Directory
	Palace Corp. (auto trailer mfrs.) (704)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Residence (1638)	Polk's City Directory
1950	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Residence (616)	Polk's City Directory
	Address not listed in research source (618)	Polk's City Directory
	Sears Roebuck & Co. (w hse.) (704)	Polk's City Directory

1656167-6

6

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1950	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Residence (1638)	Polk's City Directory
1955	<u>**GAREY STREET** Changed to Morse</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Vacant (616)	Polk's City Directory
	Vacant (618)	Polk's City Directory
	Sears Roebuck & Co. (w hse.) (704)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Residence (1638)	Polk's City Directory
1959	<u>**GAREY STREET**</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Residence (616)	Polk's City Directory
	Sears Roebuck & Co. (w hse.) (704)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory

1656167-6

7

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1959	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
	<u>**OWEN**</u>	Polk's City Directory
	Residence (1638)	Polk's City Directory
1964	<u>**GAREY STREET**</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (613 1/2)	Polk's City Directory
	Address not listed in research source (616)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1969	<u>**GAREY STREET**</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Vacant (613 1/2)	Polk's City Directory
	Residence (616)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1974	<u>**GAREY STREET**</u>	Polk's City Directory
	Residence (611)	Polk's City Directory
	Residence (613)	Polk's City Directory
	Residence (616)	Polk's City Directory
	-No Other Addresses Listed Before 611 Garey Street	Polk's City Directory

1656167-6

8

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1974	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1979	**GAREY STREET**	Polk's City Directory
	Residence (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1984	**GAREY STREET**	Polk's City Directory
	Residence (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1989	**GAREY STREET**	Polk's City Directory
	Vacant (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
1995	**GAREY STREET**	Polk's City Directory
	No Return (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
2000	**GAREY STREET**	Polk's City Directory
	Residence (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory
2005	**GAREY STREET**	Polk's City Directory

1656167-6

9

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2005	No Return (613)	Polk's City Directory
	-No Other Addresses Listed Before 613 Garey Street	Polk's City Directory
	-No Other Addresses Listed 600-800 Block Garey Street	Polk's City Directory

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Prepared at the Request of Counsel***

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**APPENDIX H
HISTORIC SITE DOCUMENTATION**

10-18-88

1700 Owen

SE corner Owen + Itaney

Small tank - unknown use, water tested
44" d x 12'

Saginaw Div - old Howard St. Warehouse
tank must have been there prior ~20 yrs.
some Maj. here prior, Nelson - engine machine - found
Sears had a clock for gas engine

Debby Warren SD - 957-4266

Dave have test results of water (in tank)
has sent sample

No water in hole at time of insp.
Clay visible.

Strong petroleum odor

Need: Samples from sides + bottom - verify clean
Samples of cont. dirt for disposal

Dirt removed will be taken to SD, covered +
stored till get sample results

1:00 pm 10/18/88 - Hole excavated, 6 samples taken, 1 from
each side, 2 from bottom. Dave Seamans, Bill Willard
+ Debby Warren on-site. Water from tank samples -
VOAs - ND at 200 ug/l.

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Sep 10, 2009 17:01

T.H.

6" MAIN

FA

D.H.

6" MAIN

T.H.

T.H.
200'

JEFFERSON AVENUE

6" MAIN

JEFFERSON AVENUE

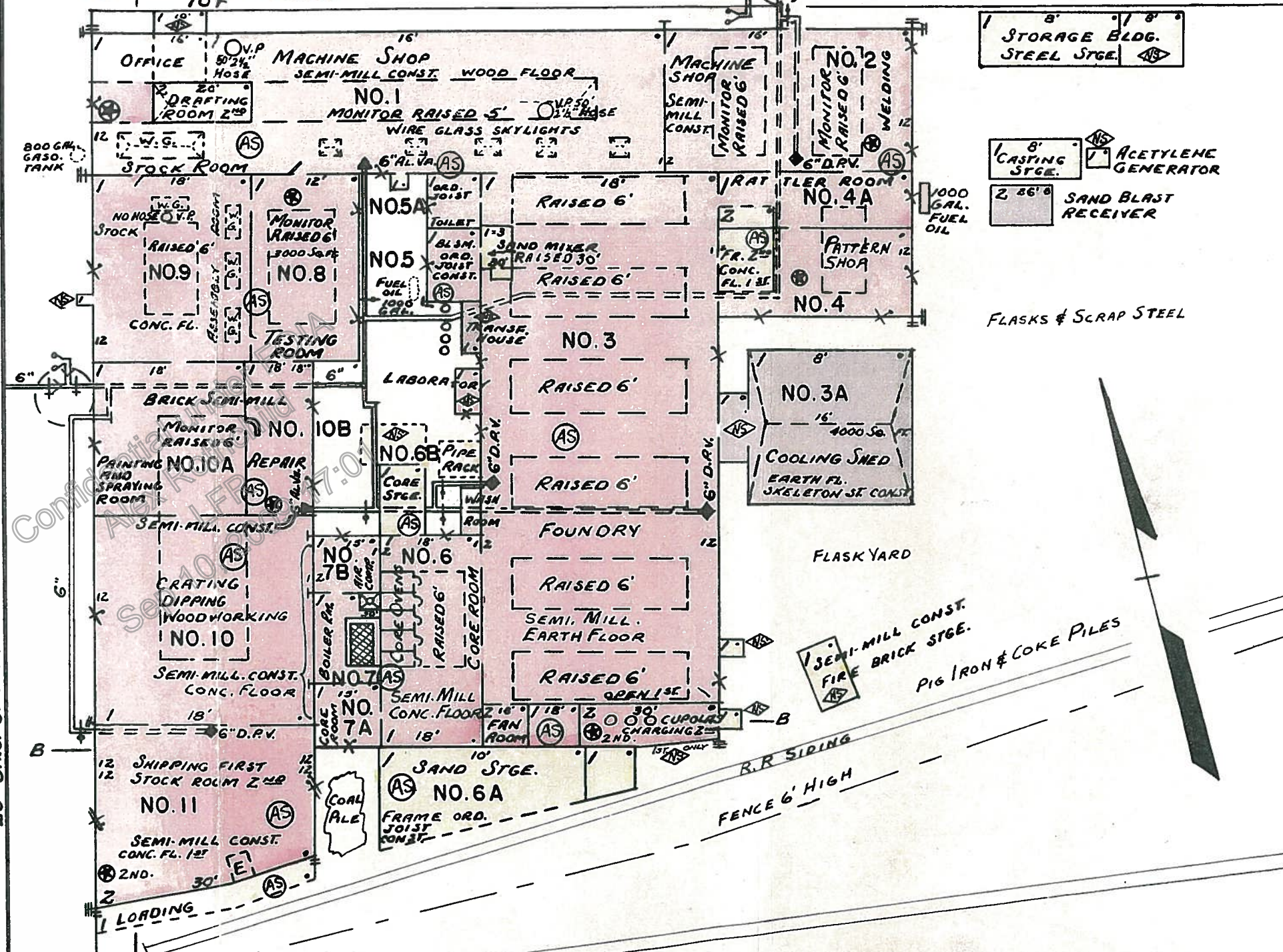
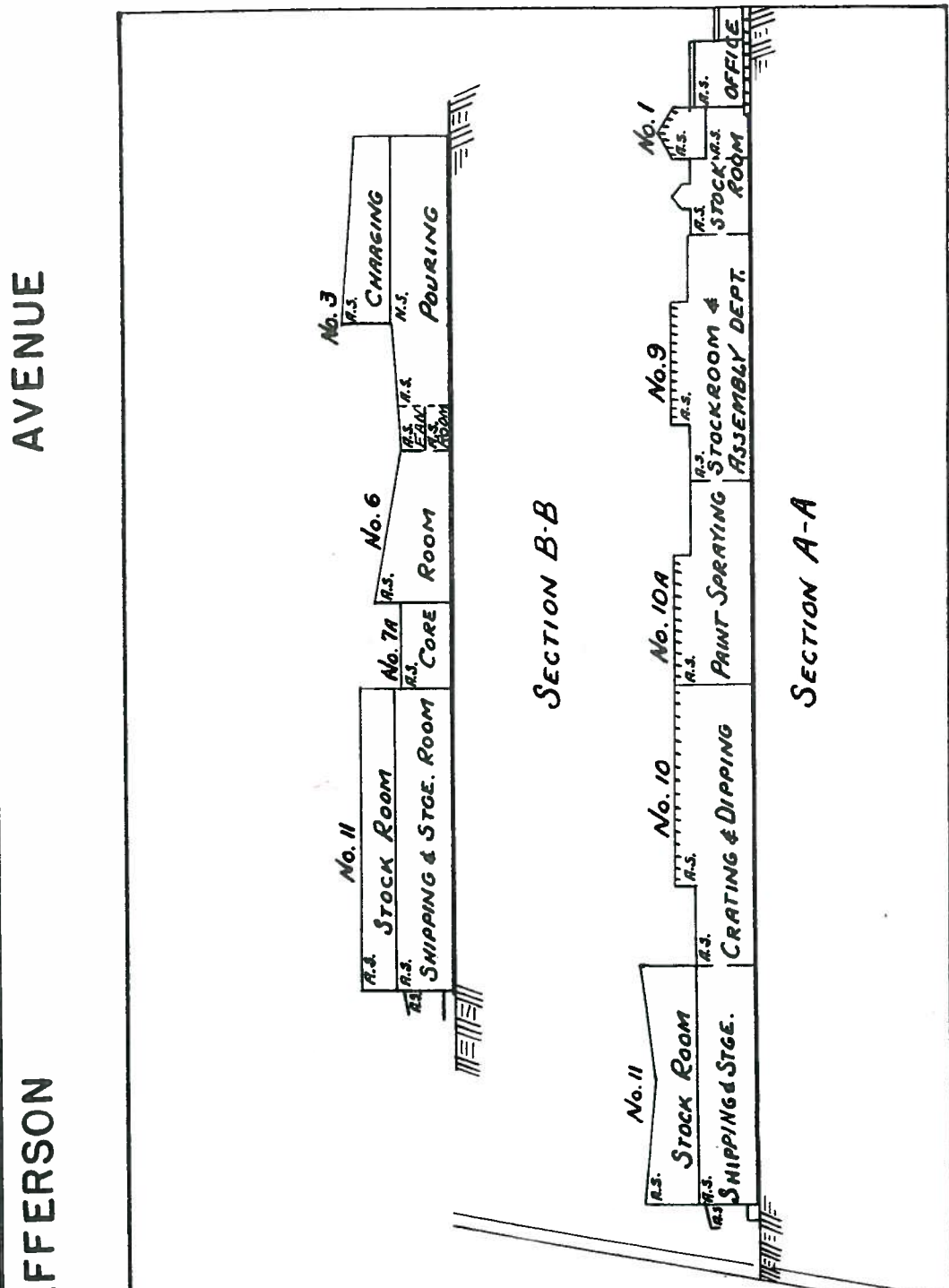
MORSE STREET

OWEN STREET

20" CIRC. CITY MAIN

400'

P.M. R.R. BELT LINE



JOSEPH REID GAS ENGINE CO.
NELSON BROTHERS DIVISION
SAGINAW MICHIGAN
JUNE 1940 FILE NO. 10796
SCALE 1" = 50' REPORT NO. 458
MICHIGAN INSPECTION BUREAU

ON TOOL NO.

WORK TO FRACTIONAL DIMEN

PATROL STATION 1793 SQ. FT. GARAGES

330 SQ. FT.

TRUCK BOAT FLOOR LEVEL WITH PLANT FLOOR

TRUCK WELL

1033 x 54 = 5580 SQ. FT.

79 x 18 = 1420 SQ. FT.

79 x 37 = 2920 SQ. FT.

SUBLEASE TO BAKER PERKINS 4140 SQ. FT.

309 SQ. FT.

224 SQ. FT.

8 x 60 = 480 SQ. FT.

166 x 87.8 = 14560 SQ. FT.

149.5 x 54 = 8070 SQ. FT.

SUBLEASE TO G. E. SEARS 8864

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MORSE ST.

OWEN ST.

FIRST AID TOILET 191 x 27.6 = 5270 SQ. FT. SWITCH ROOM 10 x 20 TRANSFORMERS 22 x 10 2423 SQ. FT. OPEN COURT

46.8 x 25.4 = 1190 SQ. FT.

COMPRESSION BOILERS

SUBLEASE TO SEARS 9025 SQ. FT.

OFFICE VEST LOBBY OFFICE OFFICE 3479 SQ. FT.

DIRECT LEASE TO SEARS 16325 SQ. FT.

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Sep 10, 2009 17:01

PURCHASING LOCATION
SAGINAW STEERING GEAR DIV.
GENERAL MOTORS CORP.
3900 E. HOLLAND RD.
SAGINAW, MI 48605



PURCHASE ORDER 3070254

ACKNOWLEDGMENT

LEGAL COPY

DECEMBER 5, 1984

VENDOR 467088 JUNS 007798790

INVOICE TO
SAGINAW STEERING GEAR
3900 E. HOLLAND RD.
SAGINAW, MI 48605
ATTN: ACCOUNTS PAYABLE

PUMFORD ALFRED & SONS INC
2115 RING ST
SAGINAW MI 48603

SHIP TO
SAGINAW STEERING GEAR
PLANT THREE
TOWERLINE RD. OFF HOLLAND RD.
SAGINAW, MI 48605

P.O. NUMBER (AND RELEASE NUMBER, IF APPLICABLE) MUST APPEAR ON ALL INVOICES, PACKING SLIPS, PACKAGES AND BILLS OF LADING. ITEM CODE NUMBERS MUST APPEAR ON ALL INVOICES AND PACKING SLIPS. ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE NAME SHOWN AT BOTTOM OF P.O. (OR RELEASE).

DATE REQUIRED 12/05/84	DATE PROMISED 12/16/84	TERMS NET 25TH PROXIMO	REC. DEPT. NOTIFY	CODES I A R S A
S.B. SHIPPING POINT			VIA CHEAPEST WAY	

STATE & LOCAL SALES TAX CODES 2A-MATERIAL ONLY TAXABLE -BILL TAX AS SEPARATE ITEM ON INVOICE.
ALIC 0ME3800440

QUANTITY	ITEM CODE NO.	DESCRIPTION	UNIT PRICE	UNIT MEAS.
		***** REFERENCE RFQ # E1964 ***** THE ENGINEER/FOLLOW-UP PERSON ON THIS PURCHASE ORDER IS <u>WM DAVIS</u> THE "TERMS AND CONDITIONS" THAT APPEAR ON THE REVERSE SIDE OF THE PURCHASE ORDER FORM ARE NULL AND VOID. THEY ARE REPLACED BY THE ATTACHED SHEET OF "TERMS AND CONDITIONS" WHICH ARE BINDING FOR THIS PURCHASE ORDER AND ARE A PART THEREOF.		
1 LOT	11881-01	PLEASE PROVIDE ALL MATERIAL EQUIPMENT AND LABOR NECESSARY TO COMPLETELY DEMOLISH (ONE FOOT BELOW EXISTING GRADE) SAGINAW STEERING GEAR WAREHOUSE LOCATED AT THE CORNER OF GAREY AND OWEN STREETS IN SAGINAW, MICH PER THE FOLLOWING SPEC: (1) DISCONNECT AND CAP OFF AT MAIN SUPPLY POINT ALL UTILITIES SERVICING THE BUILDING AND REMOVE COMPLETELY (GAS, WATER AND ELECTRIC) (2) SALVAGE STEEL STRUCTURE MEMBERS AND OTHER MISC STEEL AND DELIVER TO GM CENTRAL FOUNDRY	113,064.00	LLT

CONTINUED ON PAGE 2

COMPLETE AND RETURN PROMPTLY ** THE ABOVE NUMBERED ORDER IS ACKNOWLEDGED AND ACCEPTED, SUBJECT TO THE TERMS AND CONDITIONS ENCLOSED. SHIPMENT WILL BE MADE: _____

H.R. McMALL
DIVISIONAL BUYER
PHONE: (517) 776-4022

(BD)

ENDOR: _____ BY: _____

PURCHASING LOCATION
SAGINAW STEERING GEAR DIV.
GENERAL MOTORS CORP.
3900 E. HOLLAND RD.
SAGINAW, MI 48605



PURCHASE ORDER 3010284

ACKNOWLEDGMENT LEGAL COPY

DECEMBER 5, 1984

INVOICE TO

SAGINAW STEERING GEAR
3900 E. HOLLAND RD.
SAGINAW, MI 48605
ATTN: ACCOUNTS PAYABLE

SHIP TO

SAGINAW STEERING GEAR
PLANT THREE
TOWERLINE RD. OFF HOLLAND RD.
SAGINAW, MI 48605

VENDOR 467088 DUNS 007798795

PUMFORD ALFRED & SONS INC
2115 KING ST
SAGINAW MI 48603

P.O. NUMBER (AND RELEASE NUMBER, IF APPLICABLE) MUST APPEAR ON ALL INVOICES, PACKING SLIPS, PACKAGES AND BILLS OF LADING. ITEM CODE NUMBERS MUST APPEAR ON ALL INVOICES AND PACKING SLIPS. ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE NAME SHOWN AT BOTTOM OF P.O. (OR RELEASE).

DATE REQUIRED	DATE PROMISED	TERMS	REC. DEPT. NOTIFY	CODES I A R
J.B.			VIA	

STATE & LOCAL SALES TAX CODES

QUANTITY	ITEM CODE NO.	DESCRIPTION	UNIT PRICE	UNIT MEAS.
		(3) REMOVE CHAIN LINK FENCE (4) REMOVE COMPLETE ALL MACHINE FOUNDATIONS & PITS TO 12" BELOW FLOOR. REMOVAL OF CONCRETE STRUCTURES AND BACKFILL OF STRUCTURES BELOW GRADE WILL BE AT A RATE OF 6.00/LINIC FOOT. (IF REQUIRED) (5) KEEP ADJOINING STREETS CLEAN AND FREE OF DEBRIS DURING DEMOLITION. (6) BRING IN NEW TOP SOIL TO BRING GROUND LEVEL BACK TO EXISTING ELEVATION AND HYDRO-SEED TO GROW GRASS (7) BUILDING MUST BE DEMOLISHED BY 12/31/84 ACT 3201 7401036511010000* TAX 2A WE WELCOME YOUR SUGGESTIONS ON ANY COST SAVINGS IDEAS. SPECIAL CONSIDERATION ON FUTURE BUSINESS WILL BE GIVEN TO THOSE WHO HELP US REDUCE OUR COST.		

COMPLETE AND RETURN PROMPTLY ** THE ABOVE NUMBERED ORDER IS ACKNOWLEDGED AND ACCEPTED, SUBJECT TO THE TERMS AND CONDITIONS ENCLOSED. PAYMENT WILL BE MADE: _____

H.R. McMALL
DIVISIONAL BUYER
PHONE: (517) 776-4022

(BU)

VENDOR: _____ BY: _____

PURCHASING LOCATION

SAGINAW DIVISION
GENERAL MOTORS CORP.

500 E. HOLLAND RD.
SAGINAW, MI 48601-9494



PURCHASE ORDER 3070254

ALTERATION 63891

~~ACKNOWLEDGMENT~~

LEGAL COPY

ORDER ISSUE DATE: 12/05/84
NOVEMBER 12, 1985

INVOICE TO

VENDOR 467088 DUNS 007798796

ATTN: ACCOUNTS PAYABLE

SHIP TO

PUMFORD CONSTRUCTION INC
2115 RING ST
SAGINAW MI

48603

P.O. NUMBER (AND RELEASE NUMBER, IF APPLICABLE) MUST APPEAR ON ALL INVOICES, PACKING SLIPS, PACKAGES AND BILLS OF LADING. ITEM CODE NUMBERS MUST APPEAR ON ALL INVOICES AND PACKING SLIPS. ADDRESS ALL INQUIRIES AND CORRESPONDENCE TO THE NAME SHOWN AT BOTTOM OF P.O. (OR RELEASE).

DATE REQUIRED	DATE PROMISED	TERMS	REC. DEPT. NOTIFY <i>Bill Davis</i>	CODES IAR SA
B.			VIA	

STATE & LOCAL SALES TAXES: 2A-MATERIAL ONLY TAXABLE -BILL TAX AS SEPARATE ITEM ON INVOICE.
PERMIT NO 3800440 4F-00 NOT BILL TAX. BUYER HAS A DIRECT PAY PERMIT.

QUANTITY	ITEM CODE NO.	DESCRIPTION	UNIT PRICE	UNIT MEAS.
1 LOT	11681-02	<p>**** THE FOLLOWING HAS BEEN ADDED: ****</p> <p>FURNISH ALL LABOR, MATERIAL AND EQUIPMENT TO EXPOSE ALL BELOW GRADE FOOTINGS AND FOUNDATIONS AND REMOVE ADDITIONAL SALVAGE MATERIAL IN THE MAIN YARD</p> <p>ACT 3201 7401036511C10000* TAX 4F</p> <p>ADDING ITEM</p>	7,220.00	LOT

THIS IS NOT AN ORDER BUT CHANGES OR AMENDS PURCHASE ORDER NOW IN YOUR POSSESSION. KNOWLEDGMENT COPY MUST BE SIGNED AND RETURNED TO THE BUYER IMMEDIATELY. DATE: _____

H.R. MCMALL
DIVISIONAL BUYER
PHONE: (517) 776-4022

VENDOR _____ BY (SIGNATURE) _____

SAGINAW STEERING GEAR
GENERAL MOTORS CORPORATION
APPROPRIATION REQUEST

Date Sept. 6, 1984

Appropriation
 No. 1

Project
 No. 4732

Fixed Assets	\$	
Special Tools	\$	
Total Capital Expenditures		
Operations - Other	175,000	175,000
Total	\$ 175,000	\$ 175,000

SSG Appropriation No. 36511C

Description - Title: Demolition of Howard Warehouse

Necessity of Proposed Expenditures, Explanation and Economic Justification:

(If space is insufficient attach explanation on 8 1/2" x 11" sheets)

This project is requested at this time to provide the necessary funds to demolish the Howard Warehouse facility. The funds will include removing the current building located on 3.93 acres of land bounded by Brown Street, Grand Trunk R.R., Owen Street and Garey Street. All building materials will be removed from the site prior to leveling, grading and seeding the land.

This work is being done in preparation to dispose of the property.

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Estimated Costs	A. This Request	B. Appropriated To Date	C. Further Requests	D. Total Project
Land Imp. _____	\$	\$	\$	\$
Buildings _____ Sq. Ft.				
Equip. Incl. Furn. & Office Equip.				
Sub-Total Fixed Assets				
Special Tools				
Total Capital Expenditures				
Operations - Other	175,000			175,000
Total	175,000			175,000

Allied Transfers (Memo)	Memo
Special Tools \$ _____	Total Project (Incl. Transfers) \$ 175,000
Net Fixed Assets \$ _____	
Total \$ _____	

Forecast Expenditures	Facilities	Tools	Operations
Spent to Date	\$	\$	\$
1 Quarter 19 85			175,000
Quarter 19			
Quarter 19			
Quarter 19			
Quarter 19			
Quarter 19			
Quarter 19			
Subsequent Total			175,000

Extent to which proposed project is a replacement of existing property:

Replacement Cost \$ _____

Replacing Present Capital Values:

Gross Book Value \$ 130,059

Depreciation Accrued \$ 37,555

Net Book Value \$ 92,504

Estimated Salvage \$ -0-

Proposed disposition of replaced property:

This project ~~was~~ (was/was not) included in the current model year budget.

This project ~~was/was not~~ included in the current GME-52A.

APPROVALS

[Signature] Director, Ind. Engrg. or Mfr. Mfg. Engrg. 9/12/84

[Signature] Director, Mfg. Engrg. 10-9-84

[Signature] Divisional Comptroller 10-11-

Net Annual Cash Savings	Payback Period	Economic Life
	Yrs.	Yrs.

SAGINAW STEERING GEAR DIVISION

PROJECT # 4732

EXPLANATION OF PROJECT

It has been decided by the management of Saginaw Steering Gear to reduce the total amount of spare and surplus equipment to a point where the Howard Warehouse will no longer be needed. Therefore, the building is being vacated by selling the equipment or moving it to other locations.

Divisional plant engineering has had communication with Argonaut and Argonaut's position is as follows:

1. The site with empty warehouse cannot be sold.
2. The site with demolished building has no sale value.

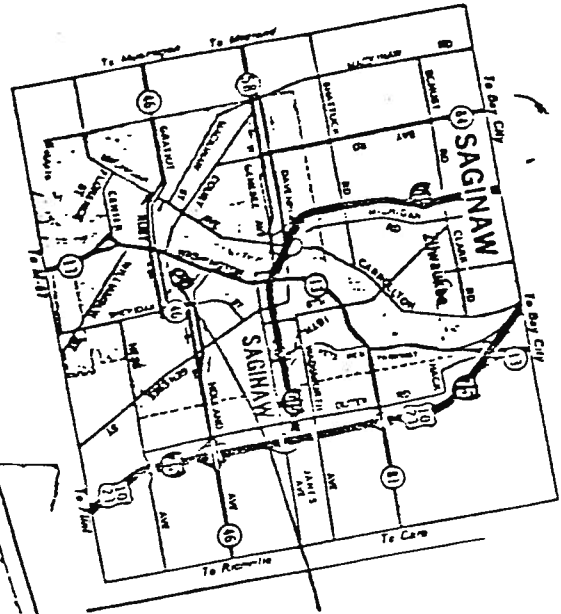
They recommend removing the building and disposing of the land as a gift or charity.

The cost of tearing the building down, hauling it to a landfill, and generally preparing the site for disposal is \$175,000.

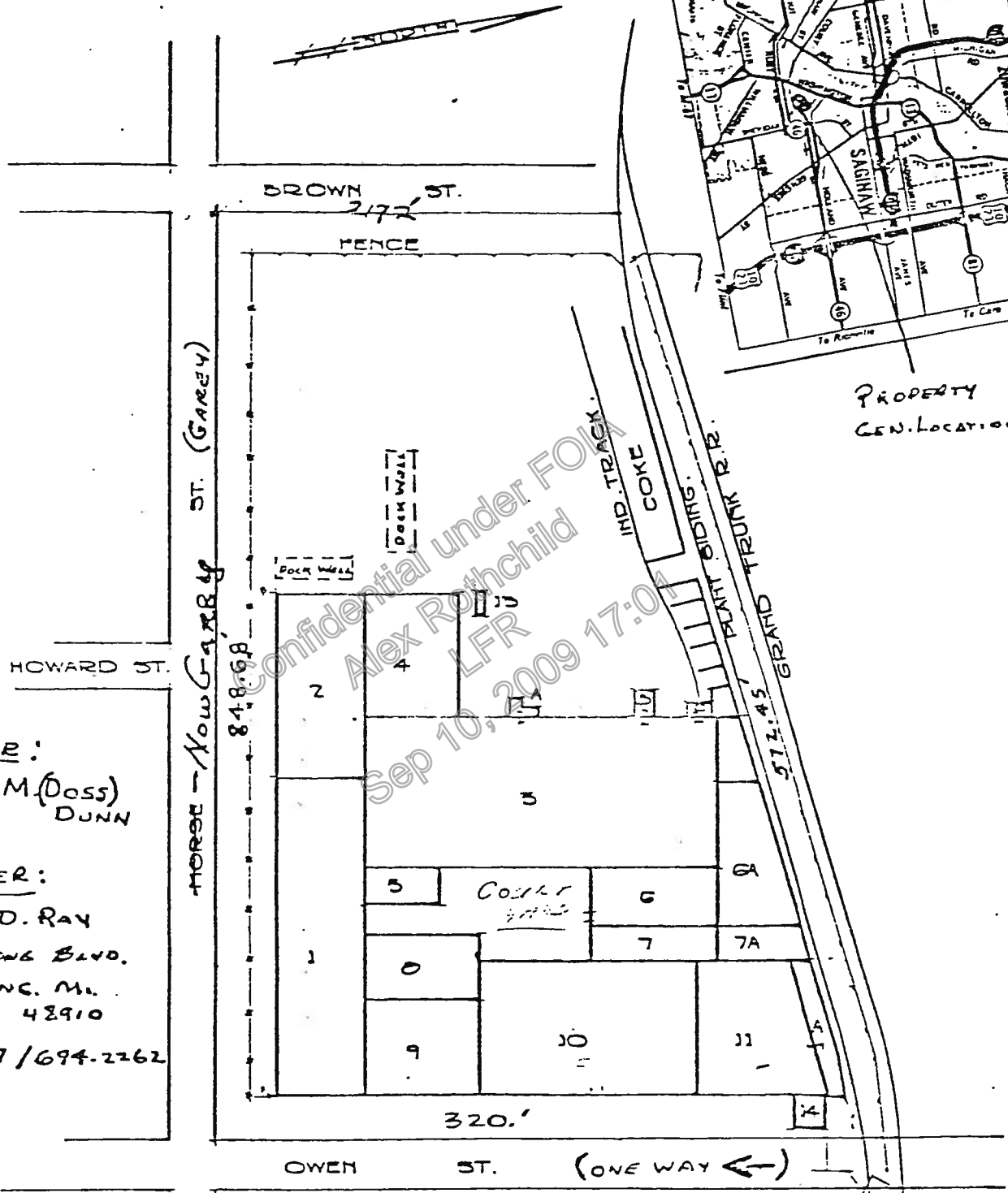
The annual depreciation on the building is \$6,828. The taxes and insurance on the property is \$6,368 per year.

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Howard Braunst
5801



PROPERTY GEN. LOCATION



OWNER:
 LYDIA M. (DOSS)
 DUNN

BROKER:
 PHIL D. RAY
 393 LONG BLVD.
 LANSING, MI.
 48910

TEL: 517/694-2262

704 Garey Street - Howard Warehouse leased to General Motors, Div. SAG. STR. CAR

Block 6 and Block 7, Brewster Park Addition to the City of East Saginaw, & Part of Owen St., Vacated by Council December 23, 1919, and that part of Howard St., Vacated by Council June 8, 1915, described as Follows - Beg. at the Point where the W. Line of Brown St. intersects the C. S. & M. R. R. Co., Grand Trunk R. R. Co. Right of Way, Thence Wly. along said R. R. Right of Way to the E. Line of Owen St., now established, thence N. Along said E. Line of Owen St. to the S. Line of Garey St., now established, thence E.

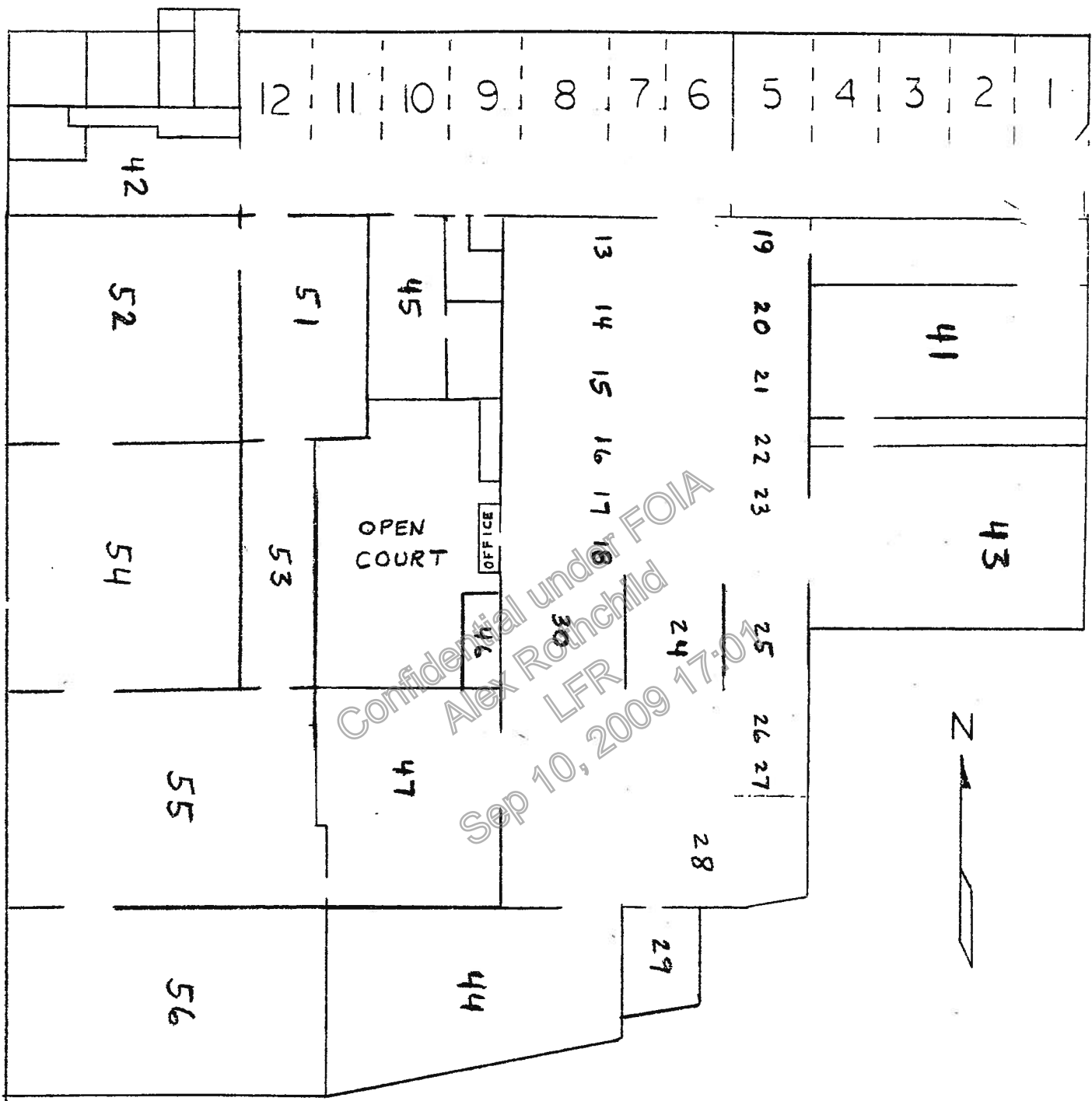
FACILITIES INFORMATION

<u>Item No.</u>	<u>Qty.</u>	<u>Description</u>	<u>Facilities Expenditures</u>		
			<u>Facilities</u>	<u>Tooling</u>	<u>Operations</u>
100		Demolition of Howard Warehouse	\$	\$	\$ 175,000
TOTAL PROJECT			175,000		

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GARREY ST.

LFR
Sep 10, 2009 17:01



DOCK AREA

48 = YARD

HOWARD WHSE.

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transmittal

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Sep 10, 2009 17:01



Date November 4, 1988

To Dave Seamans
GM Steering Gear Division
3900 Holland Road
Saginaw, MI 48601-9494

34400 Glendale Avenue
Livonia, Michigan 48150
(313) 525-0310

6022 West Side Saginaw Rd
Bay City, Michigan 48706
(517) 684-6050

5836 Executive Drive
Suite B
Lansing, Michigan 48910
(517) 887-6565

111 West Kingsley
Ann Arbor, Michigan 48103
(313) 994-5055

Project
Location

SME Job No.

We are transmitting herewith _____ / _____ copies of:

Geotechnical Services

- Soil Evaluation Report
- Boring Logs And Location Diagram
- Foundation Report
- Caisson Report
- Pile Driving Report
- Pile Length Summary

**Hydrogeological/
Environmental Services**

- Hydrogeological/
Environmental Report
- Boring Logs
- Well Construction Summaries
- Analytical Data
- Soil Testing Data
- Aquifer Testing
- Maps
- Other _____

Construction Material Services

- Daily Concrete Report
- Concrete Strength Report
- Report of Density-in-Place Tests
- Field Observation Report
- Structural Steel Report
- Laboratory Compaction Curve
- Analysis of Agregate Report
- Report of Concrete Cores
- Report of Asphalt Pavement Cores
- Built-Up Roofing Inspection Record
- Built-Up Roof Test Cut Report

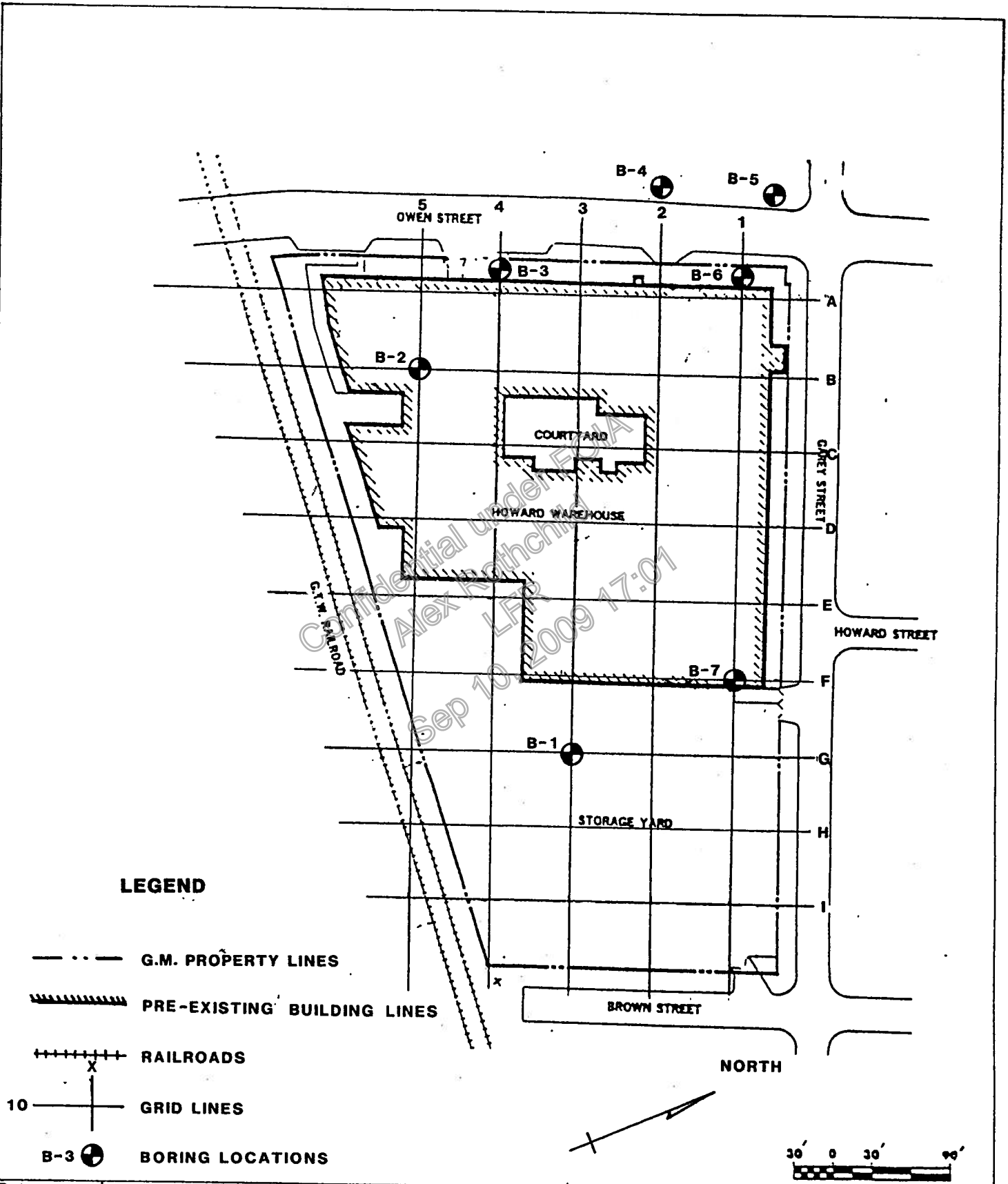
Remarks

Distribution

Very truly yours,

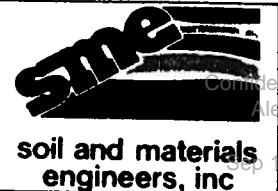
soil and materials engineers, inc.

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LFR
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Date
8/22/88
 Drawn By
BSM
 Scale
AS NOTED
 Job
B-12144

ANN ARBOR
 BATTLE CREEK
 BAY CITY
 LANSING
 LIVONIA



GM STEERING GEAR DIVISION
SAGINAW, MICHIGAN
BORING LOCATION MAP

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
JOB LOCATION: SAGINAW, MICHIGAN
OWNER: GM

A/E:
BY: BSM
JOB NUMBER: B12144
DATE: 7-19-88
BORING B-1
SHEET: 1

DEPTH (FEET)	SYMBOLIC PROFILE	DRILLER: G.L.D.	RIG: CME-55	PROFILE DESCRIPTION	SAMPLE TYPE & NUMBER & INTERVAL	STANDARD PENETRATION - (BLOWS/FOOT)	NATURAL DRY DENSITY - (LBS./CU. FT.)			LEGEND											
							100	110	120	130	▽ - PENETROMETER TEST	⊗ - TORVANE SHEAR TEST	⊙ - UNCONFINED COMPRESSION TEST	SHEAR STRENGTH (KIPS/SQ. FT.)							
GROUND SURFACE ELEVATION = 0						0	10	20	30	40	0	10	20	30	0	1	2	3	4	5	
0				TOPSOIL, FINE SAND WITH ORGANICS, BLACK THEN 1 FOOT OF FINE BLACK FOUNDRY SAND, DAMP	SS1																
-2.5				CLAYEY FINE SAND, GRAY WITH BLACK FOUNDRY SAND DEBRIS, MOIST	SS2																
					SS3																
-5				CLAYEY FINE TO MEDIUM SAND, LIGHT BROWN, MOIST	SS4																
					SS5																
-7.5				CLAY, LITTLE FINE SAND, LIGHT BROWN WITH GRAY MOTTLES	SS6																
					SS7																
-10				CLAY, TRACE FINE SAND, LIGHT BROWN																	
-12.5																					
-15																					
-17.5																					
-20																					

NOTE(S):

1. E.O.B. - 10.5 FEET
2. NO GROUNDWATER ENCOUNTERED
3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS

WATER LEVEL OBSERVATIONS

MINERAL WELB PERMIT NUMBER:

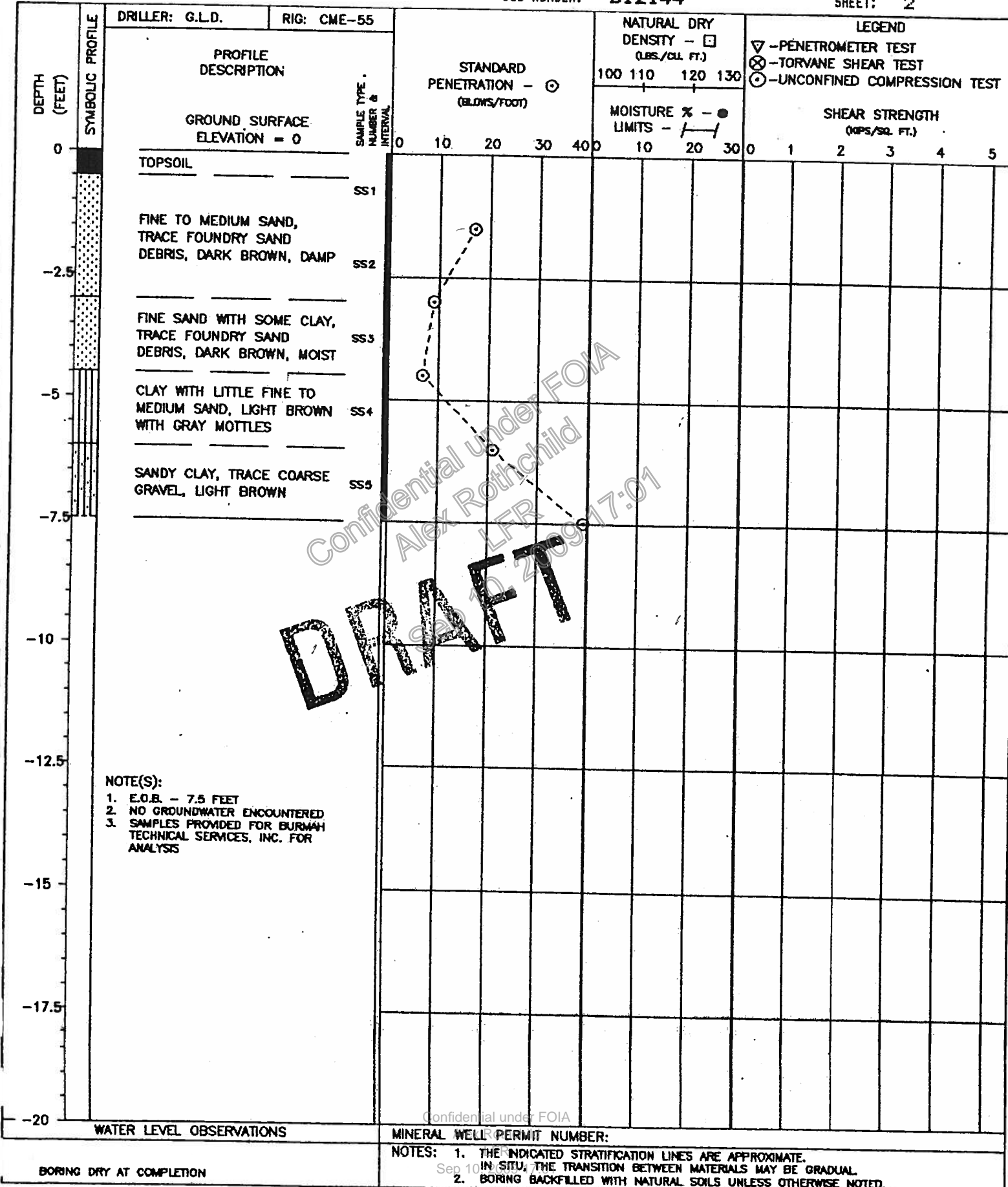
BORING DRY AT COMPLETION

NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE.
 IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
 2. BORING BACKFILLED WITH NATURAL SOILS UNLESS OTHERWISE NOTED.

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
 JOB LOCATION: SAGINAW, MICHIGAN
 OWNER: GM

A/E:
 BY: BSM
 JOB NUMBER: B12144
 DATE: 7-19-88
 BORING B-2
 SHEET: 2



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LFR 200917:01

DRAFT

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
JOB LOCATION: SAGINAW, MICHIGAN
OWNER: GM

A/E:
BY: BSM DATE: 7-19-88 BORING B-3
JOB NUMBER: B12144 SHEET: 3

DEPTH (FEET)	SYMBOLIC PROFILE	PROFILE DESCRIPTION	SAMPLE TYPE NUMBER & INTERVAL	STANDARD PENETRATION (BLOWS/FOOT)	NATURAL DRY DENSITY (LBS./CU. FT.)			LEGEND											
					100	110	120	130	MOISTURE % LIMITS		SHEAR STRENGTH (KIPS/SQ. FT.)								
0		GROUND SURFACE ELEVATION = 0																	
		TOPSOIL																	
		FINE TO MEDIUM SAND, TRACE FOUNDRY SANDEBRIS, REDDISH BROWN, DAMP	SS1																
-2.5		SANDY CLAY, SOME FOUNDRY SAND DEBRIS, LIGHT BROWN WITH REDDISH BROWN MOTTLES	SS2																
			SS3																
-5		CLAY, TRACE FINE SAND, LIGHT BROWN WITH DARK BROWN AND GRAY MOTTLES	SS4																
-7.5																			
-10																			
-12.5																			
-15																			
-17.5																			
-20																			

NOTE(S):
 1. E.O.B. - 6 FEET
 2. NO GROUNDWATER ENCOUNTERED
 3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS

DRAFT

WATER LEVEL OBSERVATIONS

MINERAL WELL PERMIT NUMBER:

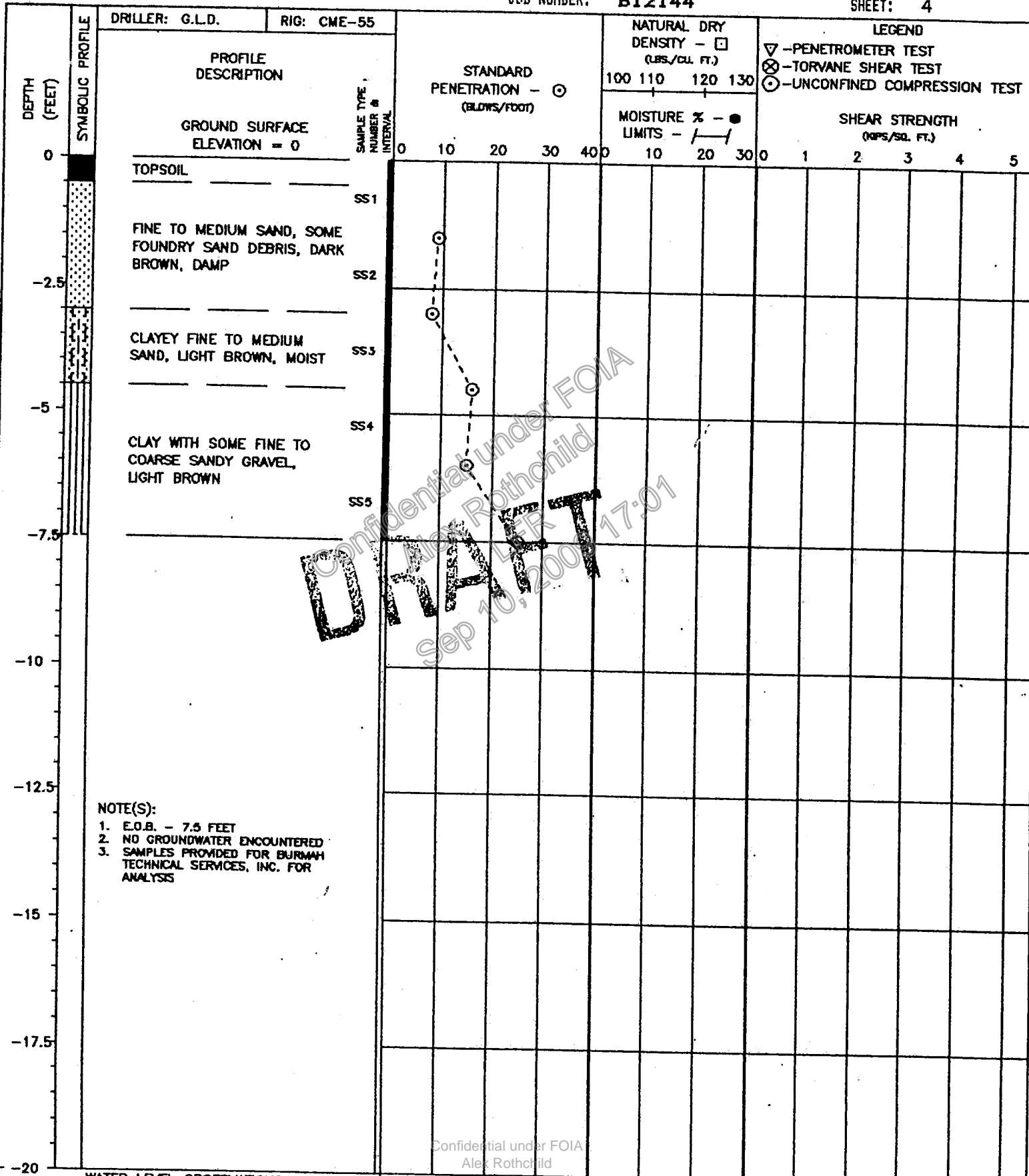
BORING DRY AT COMPLETION

NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.
 2. BORING BACKFILLED WITH NATURAL SOILS UNLESS OTHERWISE NOTED.

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
JOB LOCATION: SAGINAW, MICHIGAN
OWNER: GM

A/E: BSM
BY: BSM
JOB NUMBER: B12144
DATE: 7-19-88
BORING B-4
SHEET: 4



NOTE(S):
 1. E.O.B. - 7.5 FEET
 2. NO GROUNDWATER ENCOUNTERED
 3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS

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 Sep 10, 2009 17:01

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WATER LEVEL OBSERVATIONS

MINERAL WELL PERMIT NUMBER:

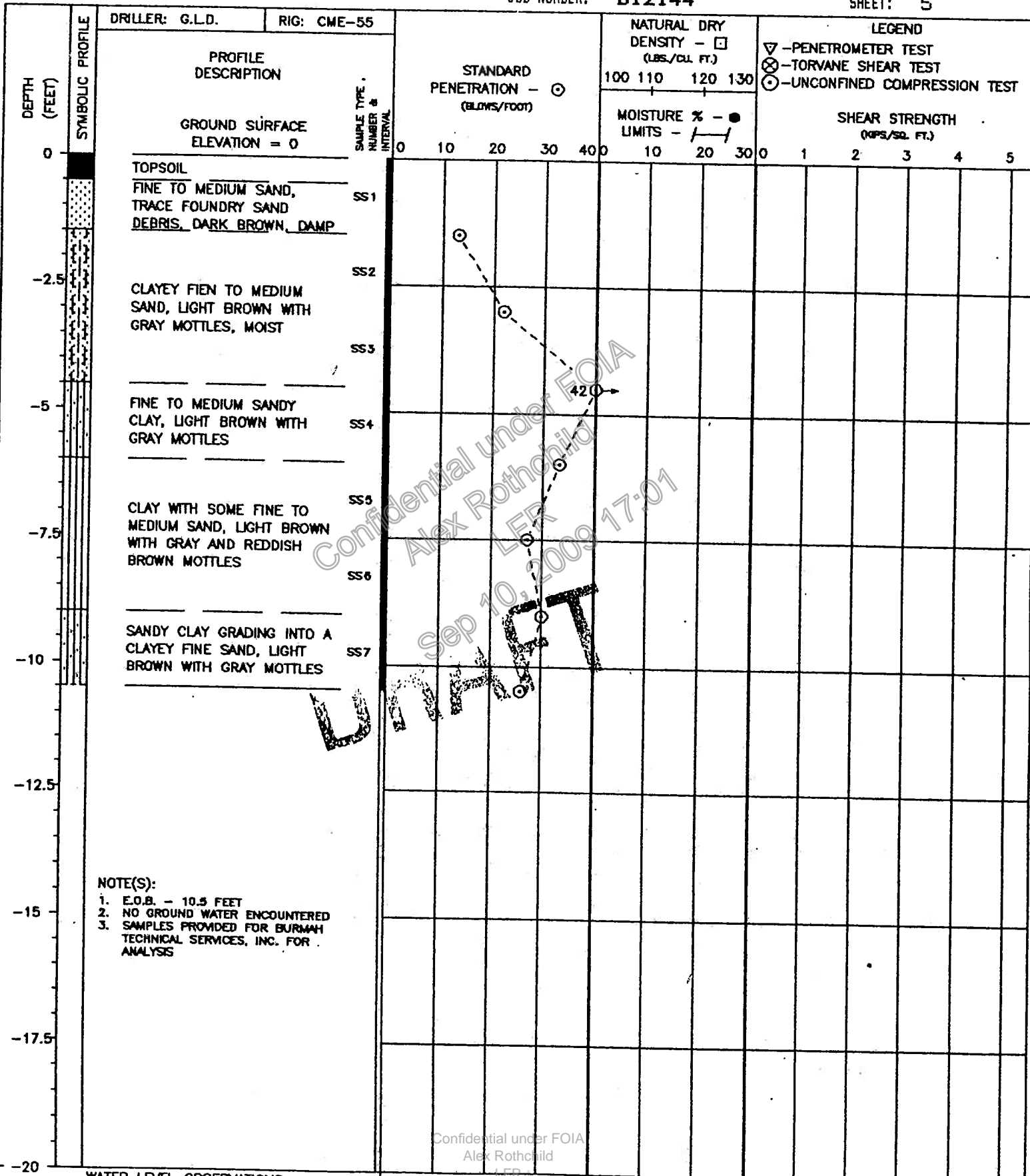
NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.

BORING DRY AT COMPLETION

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
 JOB LOCATION: SAGINAW, MICHIGAN
 OWNER: GM

A/E:
 BY: BSM
 JOB NUMBER: B12144
 DATE: 7-19-88
 BORING B-5
 SHEET: 5



NOTE(S):
 1. E.O.B. - 10.5 FEET
 2. NO GROUND WATER ENCOUNTERED
 3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS

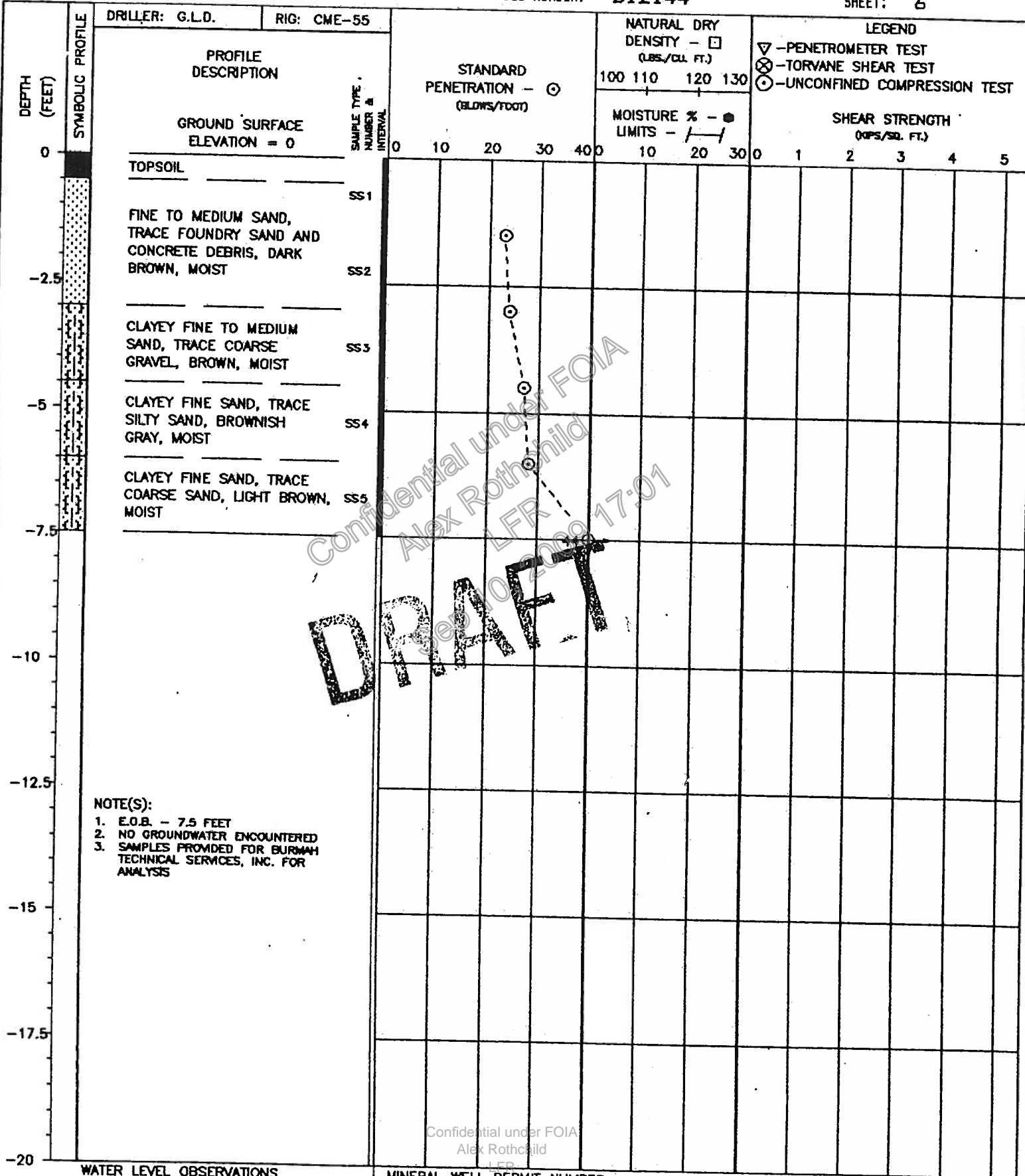
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Alex Rothchild
Sep 10, 2009 17:01

MINERAL WELL PERMIT NUMBER:
 NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU. THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL.

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
 JOB LOCATION: SAGINAW, MICHIGAN
 OWNER: GM

A/E:
 BY: BSM
 JOB NUMBER: B12144
 DATE: 7-18-88
 BORING B-6
 SHEET: 6



NOTE(S):
 1. E.O.B. - 7.5 FEET
 2. NO GROUNDWATER ENCOUNTERED
 3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS

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WATER LEVEL OBSERVATIONS

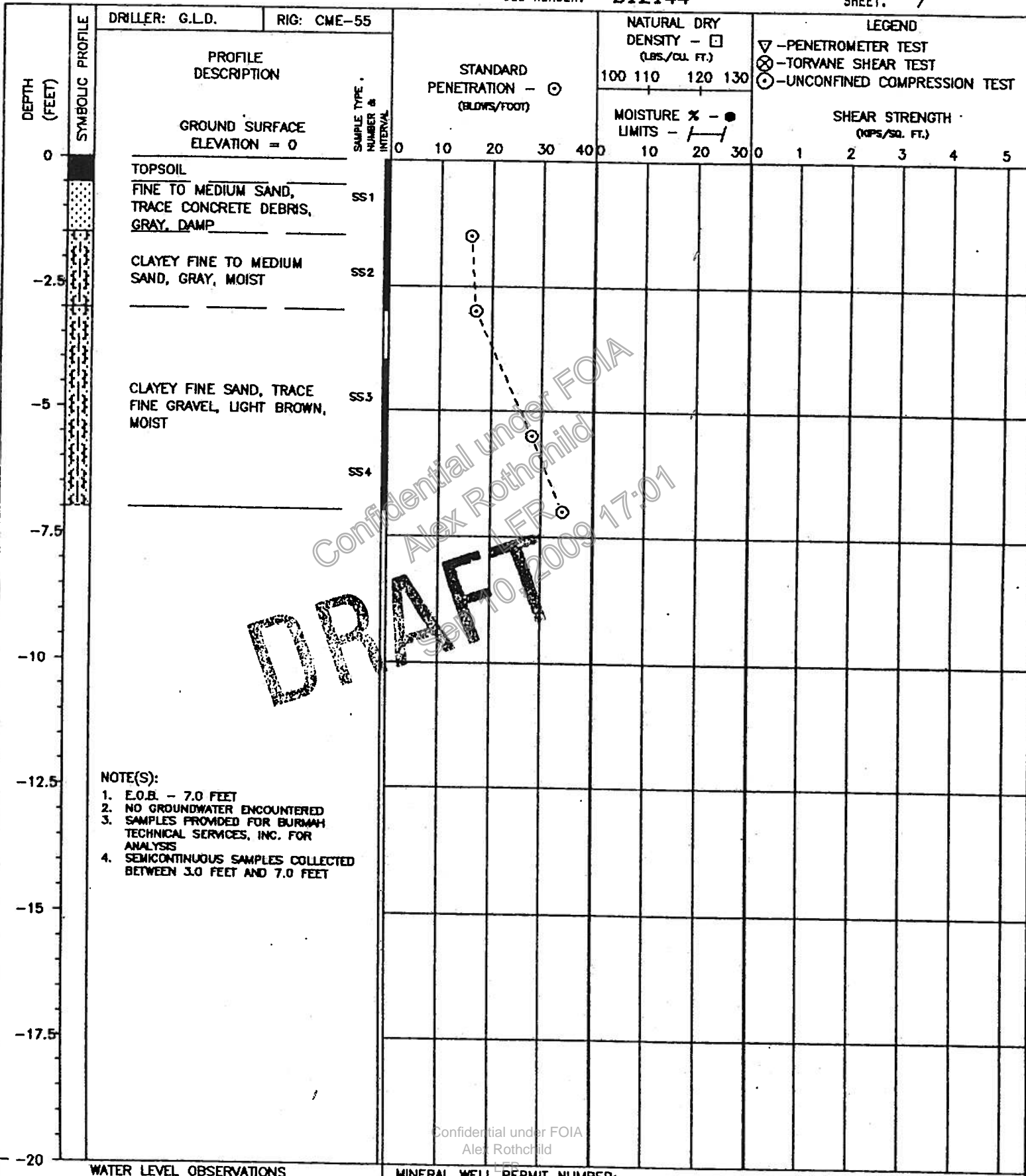
MINERAL WELL PERMIT NUMBER:

NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU THE TRANSITION BETWEEN MATERIALS...

soil and materials engineers, inc.

JOB NAME: GM-SAGINAW
JOB LOCATION: SAGINAW, MICHIGAN
OWNER: GM

A/E:
BY: BSM
JOB NUMBER: B12144
DATE: 7-18-88
BORING B-7
SHEET: 7



- NOTE(S):
1. E.O.B. - 7.0 FEET
 2. NO GROUNDWATER ENCOUNTERED
 3. SAMPLES PROVIDED FOR BURMAH TECHNICAL SERVICES, INC. FOR ANALYSIS
 4. SEMICONTINUOUS SAMPLES COLLECTED BETWEEN 3.0 FEET AND 7.0 FEET

DRAFT

MINERAL WELL PERMIT NUMBER:

NOTES: 1. THE INDICATED STRATIFICATION LINES ARE APPROXIMATE. IN SITU, THE TRANSITION BETWEEN MATERIALS MAY BE GRADUAL



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

Two areas were sampled in this project: Howard Street ("B" sites) and Plant #6 Waste Paint Tank ("T" sites). The Howard Street field is the site of the old GM Foundry Plant storage building.

Representative samples were collected as specified on 7/18-19/88 by Barry McCool of Soil and Material Engineers. Dave Seamans (Saginaw Division) was on site as an observer.

Bill Beiser (Burmah Technical Services) initiated the chain of custody records while on site and filed them with the field data.

All samples were preserved according to EPA guidelines and were transported to the laboratory by John Collins.



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

FIELD NOTES

<u>Client I.D.</u>	<u>ALD Number</u>	<u>Sampling Area</u>	<u>Sampling Method</u>
B1-S1	41220	Field Area	Split Spoon
B1-S2	41221	Field Area	Split Spoon
B1-S3	41222	Field Area	Split Spoon
B1-S4	41223	Field Area	Split Spoon
B1-S5	41224	Field Area	Split Spoon
B1-S6	41225	Field Area	Split Spoon
B1-S7	41226	Field Area	Split Spoon
B2-S1	41227	Field Area	Split Spoon
B2-S2	41228	Field Area	Split Spoon
B2-S3	41229	Field Area	Split Spoon
B2-S4	41230	Field Area	Split Spoon
B2-S5	41231	Field Area	Split Spoon
B3-S1	41232	Field Area	Split Spoon
B3-S2	41233	Field Area	Split Spoon
B3-S3	41234	Field Area	Split Spoon
B3-S4	41235	Field Area	Split Spoon
B4-S1	41236	Field Area	Split Spoon
B4-S2	41237	Field Area	Split Spoon
B4-S3	41238	Field Area	Split Spoon
B4-S4	41239	Field Area	Split Spoon
B4-S5	41240	Field Area	Split Spoon
B5-S1	41241	Field Area	Split Spoon
B5-S2	41242	Field Area	Split Spoon
B5-S3	41243	Field Area	Split Spoon
B5-S4	41244	Field Area	Split Spoon
B5-S5	41245	Field Area	Split Spoon
B5-S6	41246	Field Area	Split Spoon
B5-S7	41247	Field Area	Split Spoon
B6-S1	41248	Field Area	Split Spoon
B6-S2	41249	Field Area	Split Spoon
B6-S3	41250	Field Area	Split Spoon
B6-S4	41251	Field Area	Split Spoon
B6-S5	41252	Field Area	Split Spoon
B7-S1	41253	Field Area	Split Spoon
B7-S2	41254	Field Area	Split Spoon
B7-S3	41255	Field Area	Split Spoon
B7-S4	41256	Field Area	Split Spoon

FN/1r



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41220

Client I.D.: Howard Street

B1-S1

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	120
Total Halogens, mg/kg	<100
Total Organic Carbon, mg/kg	12,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.3
Barium, Ba, mg/kg	19
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	14
Lead, Pb, mg/kg	10
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.3
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41221

Client I.D.: Howard Street

B1-S2

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	150
Total Halogens, mg/kg	<100
Total Organic Carbon, mg/kg	3300
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.0
Barium, Ba, mg/kg	20
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	8.7
Lead, Pb, mg/kg	12
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41222

Client I.D.: Howard Street

B1-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	210
Total Halogens, mg/kg	<100
Total Organic Carbon, mg/kg	3000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.0
Barium, Ba, mg/kg	14
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	8.6
Lead, Pb, mg/kg	12
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41223

Client I.D.: Howard Street

B1-S4

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	110
Total Halogens, mg/kg	120
Total Organic Carbon, mg/kg	2600
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.3
Barium, Ba, mg/kg	21
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	12
Lead, Pb, mg/kg	2.3
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.5



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41224

Client I.D.: Howard Street

B1-S5

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	100
Total Halogens, mg/kg	400
Total Organic Carbon, mg/kg	1800
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.5
Barium, Ba, mg/kg	45
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	16
Lead, Pb, mg/kg	5.6
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41225

Client I.D.: Howard Street

B1-S6

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	93
Total Halogens, mg/kg	220
Total Organic Carbon, mg/kg	2400
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	5.0
Barium, Ba, mg/kg	50
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	18
Lead, Pb, mg/kg	2.1
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41226

Client I.D.: Howard Street

B1-S7

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	3100
Total Halogens, mg/kg	350
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.4
Barium, Ba, mg/kg	50
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	19
Lead, Pb, mg/kg	16
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41227

Client I.D.: Howard Street

B2-S1

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	11,250
Total Halogens, mg/kg	270
Total Organic Carbon, mg/kg	24,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.5
Barium, Ba, mg/kg	52
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	22
Lead, Pb, mg/kg	12
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41228

Client I.D.: Howard Street

B2-S2

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	5800
Total Halogens, mg/kg	300
Total Organic Carbon, mg/kg	3400
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	4.8
Barium, Ba, mg/kg	43
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	17
Lead, Pb, mg/kg	41
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41229

Client I.D.: Howard Street

B2-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	4900
Total Halogens, mg/kg	86
Total Organic Carbon, mg/kg	17,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.1
Barium, Ba, mg/kg	94
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	32
Lead, Pb, mg/kg	160
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41230

Client I.D.: Howard Street

B2-S4

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	4500
Total Halogens, mg/kg	150
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.3
Barium, Ba, mg/kg	33
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	12
Lead, Pb, mg/kg	10
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41231

Client I.D.: Howard Street

B2-S5

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	170
Total Halogens, mg/kg	530
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	1.6
Barium, Ba, mg/kg	28
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	11
Lead, Pb, mg/kg	8.0
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41232

Client I.D.: Howard Street

B3-S1

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	580
Total Halogens, mg/kg	3300
Total Organic Carbon, mg/kg	30,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	8.8
Barium, Ba, mg/kg	2000
Cadmium, Cd, mg/kg	3.5
Chromium, Cr, mg/kg	93
Lead, Pb, mg/kg	2600
Mercury, Hg, mg/kg	0.09
Selenium, Se, mg/kg	0.5
Silver, Ag, mg/kg	1.0



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41233
B3-S2
7-19-88

Physical Description: 100% Soil

As Received:

Oil & Grease, mg/kg	210
Total Halogens, mg/kg	580
Total Organic Carbon, mg/kg	3900
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.2
Barium, Ba, mg/kg	44
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	18
Lead, Pb, mg/kg	11
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.3
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41234

Client I.D.: Howard Street

B3-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	190
Total Halogens, mg/kg	600
Total Organic Carbon, mg/kg	3700
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	6.1
Barium, Ba, mg/kg	94
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	31
Lead, Pb, mg/kg	1.9
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.3
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41235

Client I.D.: Howard Street

B3-S4

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	160
Total Halogens, mg/kg	930
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	5.1
Barium, Ba, mg/kg	57
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	23
Lead, Pb, mg/kg	5.4
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.3
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41236

Client I.D.: Howard Street

B4-S1

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	260
Total Halogens, mg/kg	760
Total Organic Carbon, mg/kg	46,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	8.2
Barium, Ba, mg/kg	350
Cadmium, Cd, mg/kg	0.5
Chromium, Cr, mg/kg	44
Lead, Pb, mg/kg	160
Mercury, Hg, mg/kg	0.04
Selenium, Se, mg/kg	0.4
Silver, Ag, mg/kg	0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41237

Client I.D.: Howard Street

B4-S2

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	270
Total Halogens, mg/kg	620
Total Organic Carbon, mg/kg	46,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	9.6
Barium, Ba, mg/kg	410
Cadmium, Cd, mg/kg	0.4
Chromium, Cr, mg/kg	36
Lead, Pb, mg/kg	180
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	0.6
Silver, Ag, mg/kg	1.2



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41238
B4-S3
7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	250
Total Halogens, mg/kg	300
Total Organic Carbon, mg/kg	2200
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.6
Barium, Ba, mg/kg	66
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	20
Lead, Pb, mg/kg	1.8
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.3
Silver, Ag, mg/kg	<0.7



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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41239

Client I.D.: Howard Street

B4-S4

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	200
PCB's, mg/k	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.6
Barium, Ba, mg/kg	37
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	4.9
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41240

Client I.D.: Howard Street

B4-S5

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	<410
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	0.7
Barium, Ba, mg/kg	39
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	11
Lead, Pb, mg/kg	17
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41241

Client I.D.: Howard Street

B5-S1

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	340
Total Halogens, mg/kg	1780
Total Organic Carbon, mg/kg	49,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	5.0
Barium, Ba, mg/kg	170
Cadmium, Cd, mg/kg	0.7
Chromium, Cr, mg/kg	22
Lead, Pb, mg/kg	720
Mercury, Hg, mg/kg	0.4
Selenium, Se, mg/kg	0.3
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41242
B5-S2
7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	330
Total Halogens, mg/kg	<240
Total Organic Carbon, mg/kg	6000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	6.4
Barium, Ba, mg/kg	59
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	23
Lead, Pb, mg/kg	5.7
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.6



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41243

Client I.D.: Howard Street

B5-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	230
Total Halogens, mg/kg	<340
Total Organic Carbon, mg/kg	3400
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.1
Barium, Ba, mg/kg	32
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	11
Lead, Pb, mg/kg	2.5
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41244

Client I.D.: Howard Street

B5-S4

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	330
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.5
Barium, Ba, mg/kg	44
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	19
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.6



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41245

Client I.D.: Howard Street

B5-S5

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	<500
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.3
Barium, Ba, mg/kg	47
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	20
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41246
B5-S6
7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	<310
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	6.2
Barium, Ba, mg/kg	45
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	17
Lead, Pb, mg/kg	14
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	0.7

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Saginaw Division
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August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41247

Client I.D.: Howard Street

B5-S7

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg

420

PCB's, mg/kg

Aroclor 1242

<1

Aroclor 1254

--

Aroclor 1260

<1

Arsenic, As, mg/kg

1.6

Barium, Ba, mg/kg

25

Cadmium, Cd, mg/kg

<0.4

Chromium, Cr, mg/kg

4.7

Lead, Pb, mg/kg

6.8

Mercury, Hg, mg/kg

0.02

Selenium, Se, mg/kg

<0.4

Silver, Ag, mg/kg

<0.8

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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41248
B6-S1
7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	410
Total Halogens, mg/kg	400
Total Organic Carbon, mg/kg	20,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	15
Barium, Ba, mg/kg	60
Cadmium, Cd, mg/kg	0.7
Chromium, Cr, mg/kg	21
Lead, Pb, mg/kg	100
Mercury, Hg, mg/kg	0.1
Selenium, Se, mg/kg	0.9
Silver, Ag, mg/kg	<0.8



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Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41249
B6-S2
7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	220
Total Halogens, mg/kg	<400
Total Organic Carbon, mg/kg	15,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	6.2
Barium, Ba, mg/kg	49
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	6.5
Mercury, Hg, mg/kg	0.03
Selenium, Se, mg/kg	0.4
Silver, Ag, mg/kg	<0.6



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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41250

Client I.D.: Howard Street

B6-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg

87

Total Halogens, mg/kg

720

Total Organic Carbon, mg/kg

4500

PCB's, mg/kg

Aroclor 1242

<1

Aroclor 1254

--

Aroclor 1260

<1

Arsenic, As, mg/kg

2.4

Barium, Ba, mg/kg

46

Cadmium, Cd, mg/kg

<0.4

Chromium, Cr, mg/kg

13

Lead, Pb, mg/kg

2.4

Mercury, Hg, mg/kg

0.03

Selenium, Se, mg/kg

<0.4

Silver, Ag, mg/kg

<0.9



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PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41251

Client I.D.: Howard Street

B6-S4

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	110
Total Halogens, mg/kg	<300
Total Organic Carbon, mg/kg	5100
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	4.4
Barium, Ba, mg/kg	64
Cadmium, Cd, mg/kg	0.5
Chromium, Cr, mg/kg	20
Lead, Pb, mg/kg	41
Mercury, Hg, mg/kg	0.09
Selenium, Se, mg/kg	0.7
Silver, Ag, mg/kg	<0.8



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Saginaw Division
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August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41252

Client I.D.: Howard Street

B6-S5

7-19-88

Physical Description:

100% Soil

As Received:

Total Halogens, mg/kg	440
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.6
Barium, Ba, mg/kg	42
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	19
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8

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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41253
B7-S1
7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	350
Total Halogens, mg/kg	<590
Total Organic Carbon, mg/kg	19,000
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.7
Barium, Ba, mg/kg	61
Cadmium, Cd, mg/kg	0.5
Chromium, Cr, mg/kg	21
Lead, Pb, mg/kg	98
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.8



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Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41254

Client I.D.: Howard Street

B7-S2

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	110
Total Halogens, mg/kg	<210
Total Organic Carbon, mg/kg	7700
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	3.7
Barium, Ba, mg/kg	120
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	33
Lead, Pb, mg/kg	8.4
Mercury, Hg, mg/kg	0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88

ALD Number:

41255

Client I.D.: Howard Street

B7-S3

7-19-88

Physical Description:

100% Soil

As Received:

Oil & Grease, mg/kg	150
Total Halogens, mg/kg	<180
Total Organic Carbon, mg/kg	9300
PCB's, mg/kg	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	1.4
Barium, Ba, mg/kg	33
Cadmium, Cd, mg/kg	<0.4
Chromium, Cr, mg/kg	13
Lead, Pb, mg/kg	2.0
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	<0.4
Silver, Ag, mg/kg	<0.7



General Motors Corporation
Saginaw Division
Attn: Dave Seamans

August 30, 1988

PROGRAM: SOIL ANALYSIS

Date Received: 7-19-88
ALD Number:
Client I.D.: Howard Street

41256
B7-S4
7-19-88

Physical Description:

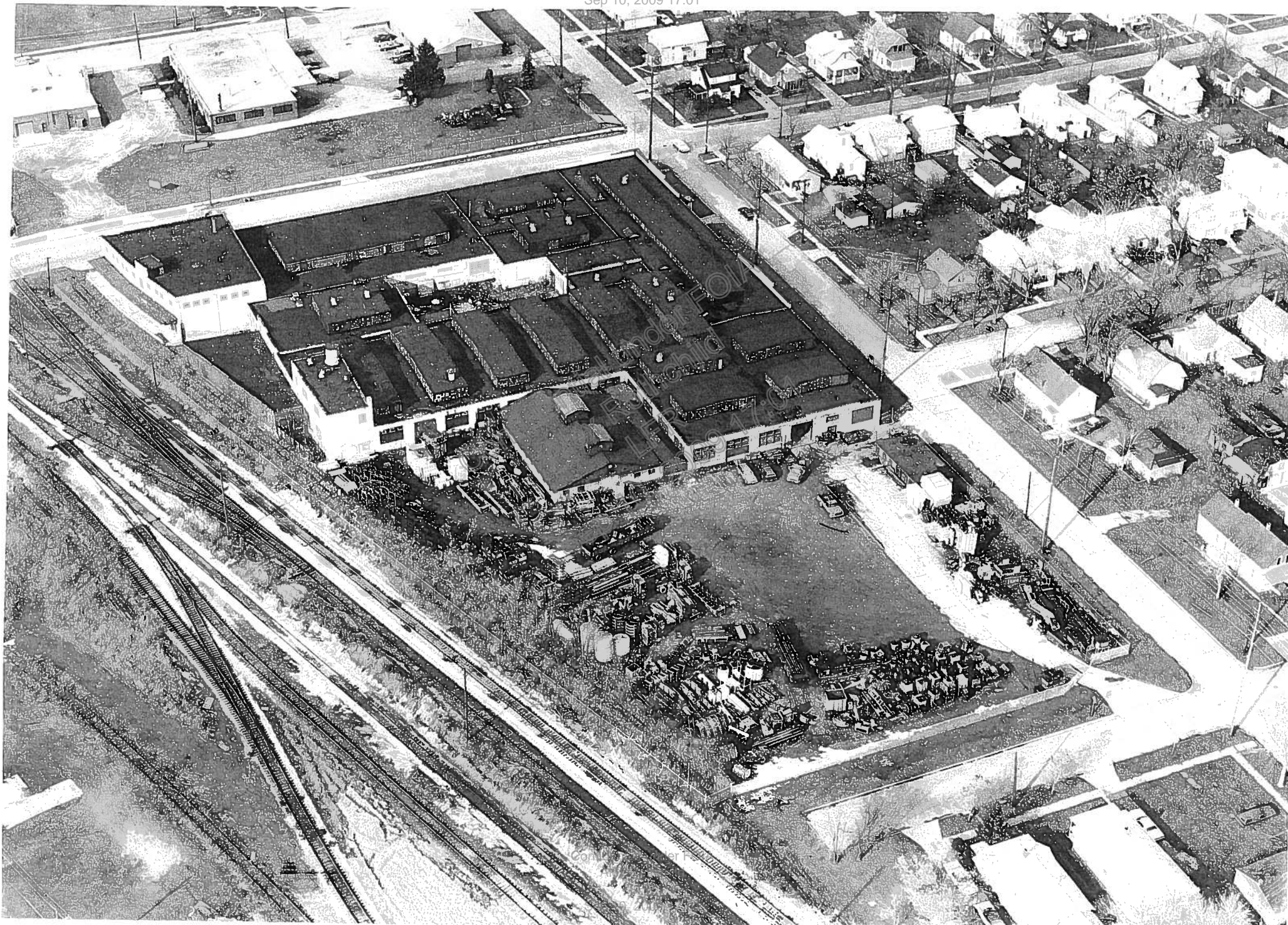
100% Soil

As Received:

Oil & Grease, mg/kg	140
Total Halogens, mg/kg	<190
Total Organic Carbon, mg/kg	3200
PCB's, mg/k	
Aroclor 1242	<1
Aroclor 1254	--
Aroclor 1260	<1
Arsenic, As, mg/kg	2.1
Barium, Ba, mg/kg	32
Cadmium, Cd, mg/kg	<0.3
Chromium, Cr, mg/kg	14
Lead, Pb, mg/kg	2.2
Mercury, Hg, mg/kg	<0.02
Selenium, Se, mg/kg	0.5
Silver, Ag, mg/kg	<0.6

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APPENDIX I

SITE PHOTOGRAPHS

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Photo 1: Northern Site boundary along vacated Owen Street right-of-way



Photo 2: Standing at southwest corner of Site, looking northeast





Photo 3: Standing at southwest corner of Site, looking east along railroad tracks



Photo 4: Southern Site boundary along Brown Street, looking north





Photo 5: Standing at southeast corner of Site, looking northwest



Photo 6: Vegetation, assorted surface rubbish near southeast corner of Site





Photo 7: Concrete patches along northern portion of Site



Photo 8: Bare patch in center of Site





Photo 9: Area of asphalt shingles in grass



Photo 10: Western adjacent properties across vacated Owen Street right-of-way





Photo 11: Adjacent residential properties to the north



Photo 12: Adjacent properties to the southwest

