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Prepared at the request of General Motors Counsel*

General Motors Corporation

Phase I Environmental Site Assessment

Flint West - Area H
General Motors Corporation – Flint West
Flint, Michigan 48504

January 30, 2007



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As required under ASTM Standard E1527-05, the following declarations are provided:

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

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Phase I Environmental Site Assessment

Flint West - Area H

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Executive Summary

ARCADIS of New York, Inc. (ARCADIS BBL, formerly known as Blasland, Bouck & Lee, Inc. [BBL]) conducted a Phase I Environmental Site Assessment (ESA) of a 3.17 acre parcel (Parcel Number 40-13-177-002) located in the City of Flint, Genesee County, Michigan (hereafter referred to as Area H or “the subject property”). This area was formerly used by the General Motors Corporation (GM) for industrial manufacturing purposes. It contained the former Building 9 and an adjoining asphalt parking lot area. The subject property is located northwest of Glenwood Avenue and Chase Street, in the City of Flint. A portion of Area H is presently occupied by the Consumers Energy of Jackson, Michigan (Consumers Energy) Asylum Substation.

This ESA was performed on behalf of Environmental Corporate Remediation, Inc. (ENCORE), a wholly-owned subsidiary of the General Motors Corporation (GM). The purpose of the Phase I ESA was to identify and document the current and historical environmental conditions of the subject property and the presence of substances which indicate an existing, past, or potential adverse environmental impact to the air, soil, groundwater, or surface waters as a result of operations on the subject property and adjacent and surrounding properties, and which indicate that further investigation may be necessary to evaluate potential environmental liabilities associated with the subject property.

This Phase I ESA was performed in accordance with the American Society for Testing and Materials (ASTM) E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, the final All Appropriate Inquiry (AAI) Rule (40 CFR § 312), and other client-specified requirements. Work activities conducted as part of the Phase I ESA were performed under the direction of a qualified environmental professional in accordance with the ASTM standard and AAI Rule (40 CFR § 312). The investigation was intended to identify Recognized Environmental Conditions (RECs) as defined by the ASTM E 1527-05 Standard.

A. RECOGNIZED ENVIRONMENTAL CONDITIONS

This assessment has revealed evidence of the following RECs in connection with the subject property:

- A documented release of oil to the storm water system occurred on August 19, 1991. The oil was discharged to the City of Flint storm sewer system and

created a 20-foot wide sheen on the Flint River 0.5 miles downstream of the associated outfall.

- System of sumps used in connection with the exhaust valve forge presses and forge press pits that were used to recycle lubricating oils.
- Quench oil pits and system of sumps used in connection with the quench pits to manage the quench oil.
- A former chrome plating area.
- All former above ground storage tanks (ASTs), including the 3,000 gallon (gal) fire hazard quench oil dump tank and a 6,000-gal hydraulic oil tank.
- An underground storage tank (UST) excavation performed in 1985 for which no written documentation exists.
- A former polychlorinated biphenyl (PCB)-containing transformer located in the electrical substation.
- Sump and trench system associated with the grinding and forming areas, and the welding, forging, and heat treating processes. The soluble oil-trench system distributed, collected, and recycled lubricants.
- The use of hazardous and/or petroleum substances.

B. HISTORICAL RECs

A Phase I ESA was completed in 1995-1996 at the portion of Area H associated immediately with the Former Building 9 Area (hereafter referred to as the Former Building 9 Area). As shown in Figure 2 of Appendix A, this area comprises slightly more than one-half of Area H. Five Potential Areas of Environmental Concern (PAOCs) that are now considered historical RECs for the subject property were identified as described below:

- PAOC #1 – Electrical Substation: Oil was observed seeping through cracks in the south wall of an electrical substation with transformers, located immediately north of Former Building 9 Area.

- PAOC #2 – Stormwater Pump and Sump in North Storage Area: Releases of oils were observed during the October 1995 site walk through, and historically, formed the overflow of the north storage yard stormwater and wastewater collection system. The overflow of the material was documented as flowing 75 to 100 feet east along the adjacent railroad tracks, and onto the adjacent Stevenson Street.
- PAOC #3 – Gravel Area, Northwest Side of Building: Oil staining was observed on the gravel area along the northwest side of the Former Building 9 Area during the October 1995 site walk through. During the June 1996 property visit, GM personnel indicated that the area was excavated to a depth of 6 to 12 inches below ground surface, and the excavated material disposed of offsite.
- PAOC #4 – Fire Protection Trench Excavation Area: On November 26, 1996, during trench excavation activities for a fire protection system in Former Building 9 Area, an oil-like substance was observed seeping into a trench in the vicinity of Column 9-B, located in the northeast portion of the building.
- PAOC #5 – Former Trichloroethylene (TCE) Degreasing Unit and Sump - The source of the TCE groundwater impacts 150 feet downgradient from the Former Building 9 Area is unknown but it may have been the former degreasing unit and sump, located in the south-central portion of the Former Building 9 Area.

All of the PAOCs were investigated on behalf of GM by BBL (currently known as ARCADIS BBL). The additional investigation activities included the installation of soil borings and temporary monitoring wells. Based on the results of the investigation, PAOCs #1 and #2 were no longer considered PAOCs, and additional investigation was recommended for the remaining PAOCs #3, #4 and #5. PAOCs #3 and #5 were eliminated based on the results of the additional investigations. Additional observation to determine if light nonaqueous liquid (LNAPL) would enter a monitoring well installed at PAOC #4 was recommended before eliminating PAOC#4.

Additional soil and groundwater sampling activities were performed at the Former Building 9 Area by Soil and Materials Engineers, Inc, (SME). The sampling was performed to assess environmental conditions in anticipation of the construction and operation of the Consumers Energy Asylum Substation at the Former Building 9 Area. Soil and groundwater samples were collected at PAOCs #1, #4, and #5, and at the

former chrome plating area in the southwest corner of Former Building 9 Area, as well as the southeast corner of the Former Building 9 footprint. The soil and groundwater samples were analyzed for the presence of possible constituents of concern (COCs). However, data validation results demonstrated that the data, except for the cyanide results, did not satisfy the guidelines for quantitative interpretation. Therefore, the affected data was used only for qualitative interpretive purposes only. Although concentrations of COCs did exceed the Michigan regulatory cleanup criteria at individual sampling locations, a statistical analysis was completed to determine if the positive detections were significant. None of the COCs detected exceeded the Michigan regulatory cleanup criteria after the statistical procedures were applied, except for barium. No additional investigation was warranted based on the results of the investigation.

C. OTHER ENVIRONMENTAL ISSUES

This assessment has revealed evidence of the following other environmental issues or potential site development issues in connection with the subject property:

- Based on a review of historical sources, several former residential structures were identified on the subject property, which may have utilized an on-site septic system and associated drainage field. ARCADIS BBL contacted the City of Flint Water Pollution Control Department several times in an attempt to obtain information pertaining to the timeframe when city sewer services would have been available in the area. However, a response was not received at the time of this report submittal. Therefore, the potential exists for abandoned drainage structures and residual waste associated with former on-site septic systems to be present at the subject properties, which represents a potential site development issue with regard to the subject property.
- ARCADIS BBL contacted the City of Flint Water Services Department several times in an attempt to obtain information pertaining to the timeframe when city water services would have been available in the area. However, a response was not received at the time of this report submittal. Therefore, the extent to which potential former water wells were properly abandoned or still exist is unknown. This represents a potential other environmental issue for the subject property.
- The subject property was historically part of the GMC-Chevrolet Flint Manufacturing facility, which as explained further in Section 2.3.1, was subject

of a RCRA Facility Assessment, and was assigned a medium corrective action priority by the United States Environmental Protection Agency (USEPA).

D. DATA GAPS

ASTM E 1527 05 defines a data gap as “a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information.” After reasonable inquiry from personnel familiar with the subject property and readily available resources, the following information pertaining to the subject property was not available for this report:

- The availability of information or interviews with knowledgeable persons regarding the several historical residential structures identified on the available Sanborn Maps® for the subject property pertaining to construction, demolition and/or heating sources of the historical residential structures.
- ARCADIS BBL did not seek and obtain the Chain of Title research documentation from GM Real Estate prior to the completion of this report. Therefore, additional information pertaining to the past ownership of the subject property is not included.
- Based on limited knowledge, personnel associated with the subject property were unable to provide ARCADIS BBL with additional information pertaining to historical uses, chemical use/storage/disposal, former or current USTs/ASTs or other pertinent information related to the subject property.
- Information requested from the City of Flint Building and Safety Department, Fire Department, Water Pollution Control Department and Water Service Department was not received prior to the submittal of this report; therefore, additional information that may be available could not be included in this report.
- ARCADIS BBL performed reconnaissance of the Former Building 9 Area from the perimeter fencing only.

E. DEVIATIONS

Based on extensive in-house documentation pertaining to previous site assessment activities and findings for the Former Building 9 Area, ARCADIS BBL did not request

available documentation from the MDEQ. Available documentation at the MDEQ would largely mimic the available in-house documentation. In addition, Area H was included under a general address of 300 North Chevrolet Avenue, which would have included several other buildings with various operations.

1. Introduction

ARCADIS of New York, Inc. (ARCADIS BBL, formerly known as Blasland, Bouck & Lee, Inc. [BBL]) performed a Phase I Environmental Site Assessment (ESA) of a 3.17 acre parcel (Parcel Number 40-13-177-002) located in the City of Flint, Genesee County, Michigan. This area was formerly used by the General Motors Corporation (GM) for industrial manufacturing purposes. It contained the former Building 9 and the adjoining asphalt parking lot area (hereafter referred to as Area H or “the subject property”). Area H is located northwest of Glenwood Avenue and Chase Street, in the City of Flint.

This ESA was performed on behalf of Environmental Corporate Remediation, Inc. (ENCORE), a wholly-owned subsidiary of the General Motors Corporation (GM). The purpose of this Phase I ESA was to identify and document the current and historical environmental conditions of the subject property and the presence of substances which may indicate an existing, past, or potential adverse environmental impact to the air, soil, groundwater or surface waters as a result of operations on the subject property and adjacent and surrounding properties, and which indicate that further investigation may be necessary to evaluate potential environmental liabilities associated with the subject property. The investigation was also intended to identify Recognized Environmental Conditions (RECs) as defined by the American Society for Testing and Materials (ASTM) E 1527-05 Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process.

The ASTM standard defines a REC as *“the presence or likely presence of any hazardous substances or petroleum products on a property (Site) under conditions that indicate an existing release, a past release, or a material threat of a release of any hazardous substances or petroleum products into structures on a property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be de minimis are not recognized environmental conditions.”*

The conclusions regarding the potential impact of RECs on the subject property are intended to help ENCORE and GM evaluate the “business environmental risk” associated with the Site, as defined in the ASTM E 1527-05 Standard. The ASTM

Standard defines “business environmental risk” as *“a risk which can have a material environmental or environmentally-driven financial impact on the business associated with the current or planned use of a parcel of commercial real estate.”*

1.1 Scope of Work

The following scope of work was undertaken, in accordance with ASTM Standard E 1527-05 Phase I ESA requirements; the final “Standards and Practices for All Appropriate Inquiries” rule as published in 40 CFR § 312 (AAI Rule) , and client-specific requirements.

The work consisted of the following six tasks:

Task 1: A Site reconnaissance was conducted to visually observe the subject property in an effort to obtain information suggesting RECs of potential concern, including:

- Observing and recording the physical setting of the subject property;
- Observing and documenting the subject property land use;
- Identifying abutting and surrounding properties;
- Interviewing the current property owner/tenants to obtain information on current and past operations that may have led to a release of oil, gasoline, solvents, or hazardous material(s), including polychlorinated biphenyls (PCBs), to onsite soil or groundwater, and information regarding the presence of onsite underground storage tanks (USTs), subsurface equipment, or drainage structures;
- Observing and documenting the conditions at the subject property that may be indicative of past and present releases, or current practices which could potentially result in a release including taking color photographs showing the general property and surrounding areas;
- Observing and documenting, using color photographs, the presence, location, and condition of above ground storage tanks (ASTs), chemical storage areas, and the at or above grade indications of subsurface features including USTs,

septic tanks/fields, drainage structures, or other similar subsurface equipment;
and

- Observing and recording the presence or absence of debris and/or containers of chemical substances onsite, including the number of containers, size, and a description/identification and volume of the contents where possible.

Task 2: A background and history review of the subject property was performed to assess previous ownership and land use including:

- Review of readily-available information pertaining to local geology/hydrogeology;
- Completion of a groundwater well inventory;
- Assessment of groundwater use;
- Freedom of Information Act (FOIA) request for information pertaining to the subject property from the Michigan Department of Environmental Quality (MDEQ), Genesee County Environmental Health Department, and the City of Flint Building and Safety, Fire and Water and Sewer Departments;
- Review of information from the City of Flint Assessing Department;
- Interview with the current property owner regarding past uses of the subject property and surrounding property;
- Review of readily available historic aerial photographs, and search and review of Sanborn or other fire insurance maps, etc. as available; and
- Search for environmental liens and deed restrictions for the subject property at the Genesee County Register of Deeds, through a FOIA request to the MDEQ and through review of the Environmental Data Resources, Inc. (EDR) database report information pertaining to both federal (U.S.) and MDEQ institutional controls at the subject properties.

Task 3: An electronic database search report was generated for the subject property by EDR to complete the environmental records review. The database search was used to identify properties that may be listed in the

referenced Agency records, located within the ASTM-specified search radii plus an additional 0.125 mile, as indicated below. The databases reviewed included, but were not limited to:

<u>Database</u>	<u>Search Radius</u>
• NPL sites:	1.125 mile
• CERCLIS sites:	0.75 mile
• CERCLIS NFRAP sites	0.625 mile
• Federal ERNS	0.125 mile
• RCRA non-CORRACTS TSD facilities:	0.625 mile
• RCRA CORRACTS TSD facilities:	0.625 mile
• RCRA Generators:	0.375 mile
• State Hazardous Waste Sites:	1.125 mile
• Registered Underground Storage Tanks:	0.375 mile
• State Landfills and Solid Waste Disposal Sites:	0.625 mile
• State Leaking Underground Storage Tanks:	0.625 mile

A summary of information is provided for each of the above-listed databases in Section 2 of this report. The complete environmental database report is provided in Appendix D.

The database search was supplemented with inquiries with appropriate regulatory agencies and municipalities regarding the subject property, and to the extent practicable, adjacent properties. Inquiries were made with regulatory agencies with regard to basic regulatory compliance issues for the subject property, such as property drainage, permits, etc.

- Task 4: The findings of the ESA have been documented in this report, which presents a professional opinion as to the environmental disposition of the subject property with regard to the presence of RECs and/or other potential property development issues associated with ASTM E 1527-05 subject matter.
- Task 5: Preliminary asbestos, PCB, lead-based paint, and radon review was performed based on observations of the Site and property location and discussions with the owner
- Task 6: Data gaps (defined as the lack or inability to obtain information required by ASTM E 1527-05 despite good faith efforts to gather such information)

were identified, resolved to the extent feasible, and documented in the event that the gaps could not be resolved.

1.2 Exceptions and Deviations

1.2.1 Exceptions

Exceptions to ASTM E 1527 05 and the final AAI Rule (40 CFR § 312) taken during this Phase I ESA include data gaps. The ASTM standard defines a data gap as “a lack of or inability to obtain information required by this practice despite good faith efforts by the environmental professional to gather such information.” After reasonable inquiry from personnel familiar with the subject property and readily available resources, the following information pertaining to the subject property was not available for this report:

- The availability of information or interviews with knowledgeable persons regarding the several historical residential structures identified on the available Sanborn Maps® for the subject property pertaining to construction, demolition and/or heating sources of the historical residential structures.
- ARCADIS BBL did not seek and obtain the Chain of Title research documentation from GM Real Estate prior to the completion of this report. Therefore, additional information pertaining to the past ownership of the subject property is not included.
- Based on limited knowledge, personnel associated with the subject property were unable to provide ARCADIS BBL with additional information pertaining to historical uses, chemical use/storage/disposal, former or current USTs/ASTs or other pertinent information related to the subject property.
- Information requested from the City of Flint Building and Safety Department, Fire Department, Water Pollution Control Department and Water Service Department was not received prior to the submittal of this report; therefore, additional information that may be available could not be included in this report.

1.2.2 Deviations

Deviations from the ASTM E 1527-05 and the final AAI Rule included the following:

- Based on extensive in-house documentation pertaining to previous site assessment activities and findings for the Former Building 9 Area, ARCADIS BBL did not request available documentation from the MDEQ. Available documentation at the MDEQ would largely mimic the available in-house documentation. In addition, Area H was included under a general address of 300 North Chevrolet Avenue, which would have included several other buildings with various operations.
- Several client-specific, non-ASTM considerations were added, including a preliminary review/evaluation of the following:
 - > Potential for radon gas presence and accumulation;
 - > Potential presence of asbestos-containing material (ACM);
 - > Potential presence of lead-based paint;
 - > Wetlands identification; and
 - > Observations regarding potential environmental regulatory compliance issues.

Evaluation of the Site for these criteria was performed for the purpose of providing a general indication of the potential problems; this assessment does not serve as a substitute for radon/ACM/lead-based paint testing, wetlands delineation or a regulatory compliance audit.

2. Assessment Findings

Information obtained from the sources and activities described in Section 1.0 are presented in the following section. Information supporting the observations in this report is provided in the Appendices. The Site Location, Site Map, and Surrounding Properties Map are provided in Appendix A. A list of contacts used to prepare this Phase I ESA report is provided in Appendix B. Appendix B also includes environmental correspondence records from telephone interviews and/or visits and resultant information collected. Photographs of the subject property are provided in Appendix C. The environmental database report is provided in Appendix D. Historical information is provided in Appendix E. A list of available previous reports pertaining to the surrounding properties which are summarized within this report is included in Appendix F. ARCADIS BBL personnel responsible for preparing this Phase I ESA include: Derek Kaiding, P.E., Amy Hoeksema, C.P.G., Susannah Duly, Joe Kotwicki, and Tiffany Linder. Their resumes are included in Appendix G.

2.1 Site Reconnaissance

A site reconnaissance was performed on December 26, 2006. The site reconnaissance included visual observations of the subject property based on a parcel map obtained from the City of Flint Assessing Department, review of relevant records made available to ARCADIS BBL pertaining to the subject property and visual observations of adjacent properties as viewed from the subject property and surrounding roadways. The limits of the subject property were generally defined by a property boundary chain link fence. A boundary survey was not performed.

2.1.1 Subject Property Location and Description

Area H forms a 3.17 acre parcel (Parcel Number 40-13-177-002) located in the City of Flint, Genesee County, Michigan. See the complete property description in Appendix E. According to the City of Flint Assessing Department, Area H is currently zoned "Heavy Manufacturing District". Area H is located northwest of Glenwood Avenue and Chase Street. According to assessment records reviewed, Area H currently contains a vacant and inactive parking lot, owned by GM, that is covered with broken and cracked asphalt and vegetation, an electric power substation owned and operated by Consumers Energy of Jackson, Michigan (Consumers Energy) (Asylum Substation), and GM's Former Building 9 Area, which is currently paved with asphalt. Area H is surrounded by a chain link fence. There is no chain or gate on the entrance of the vacant parking lot of Area H; however, a locked gate is present at the entrance to the

Former Building 9 Area of Area H. The reconnaissance/subject property inspection of the Former Building 9 Area of Area H was performed from outside of the perimeter fencing of this area.

As characterized above, the vacant, inactive parking lot of Area H is paved with asphalt, and this asphalt cover was observed to be severely cracked with several areas of vegetation growing through large cracks and holes (see photos in Appendix C). A concrete patched area was observed along the northwestern portion of the vacant, inactive parking lot of Area H, and several light poles were observed along the northern portion of the property. One storm drain and two manholes were observed in the northeastern portion of the vacant, inactive parking lot of Area H. In addition, an area containing several former post locations was observed in the southern portion of the vacant, inactive parking lot of Area H, which were cut down to the surface of the asphalt.

Based on historical sources, and as observed during site reconnaissance activities, the Former Building 9 Area of Area H was used as a manufacturing facility since 1929, while the vacant, inactive parking lot of Area H has been utilized as a parking lot area from at least 1982. GM operated the Former Building 9 Area starting in 1929. The major products manufactured at this plant included intake and exhaust engine valves. The processes associated with the manufacturing of these products included forming, forging, grinding, plating, degreasing, and heat treating. Decommissioning activities performed at the facility in 1996 included: the removal of machinery and wooden floor blocks; cleaning, filling and concrete capping of trenches (some up to 17 feet below grade); the cleaning, cracking (for drainage), and filling of press pits; and the cleaning and filling of sumps; and demolition of the plant building. Prior to the usage of the subject property as an industrial facility and parking lot, several residential structures occupied the subject property from at least 1892. The area surrounding the subject property consists of industrial, commercial and residential properties.

It is also important to note that the subject property was historically part of the GMC-Chevrolet Flint Manufacturing facility, which as explained further in Section 2.3.1, was subject of a RCRA Facility Assessment, and was assigned a medium corrective action priority by the United States Environmental Protection Agency (USEPA).

The subject property is accessed from the south via one entrance on Asylum Street. Refer to Figures 1 through 3 in Appendix A for additional features and information pertaining to Area H. Photographs of Area H are included in Appendix C.

2.1.2 Adjacent Properties

An automobile tour of adjoining properties and a walkabout of the perimeter of the subject property were conducted on December 26, 2006, to identify readily apparent potential RECs that may adversely affect the subject property. The tour was conducted from public rights-of-way and did not involve entry onto any of the adjoining properties. The adjoining properties are shown on the attached Figure 3 in Appendix A.

Railroad tracks exist immediately north of the subject property, beyond which property formerly occupied by the Delphi E - Flint West Former Buildings 7, 8, and 40 and Stevenson Street are present. Glenwood Avenue is located immediately east of Area H, beyond which Stevenson Street, Kearsley Street, a parking lot, GM Metal Fabricating Division Building 38, and Swartz Creek are present. Glenwood Avenue exists immediately south of Area H, beyond which a vacant commercial building, Wild Things Gentleman's Club, Asylum Street and residential properties are present. A parking lot area exists immediately west of Area H, beyond which a commercial building, railroad tracks and property formerly occupied by the Delphi E - Flint West Former Building 4 are present.

2.1.3 Underground Storage Tanks

According to the EDR report and research completed, there are no USTs currently present at the subject property. However, a UST was known to have historically existed at the Former Building 9 Area of Area H. According to previous reports pertaining to the Former Building 9 Area, a 6,000-gal hydraulic oil UST was removed and replaced by a 6,000-gal AST in 1985. No releases to the environment were observed during the tank closure, although there is no written documentation available regarding the UST excavation. In addition, personnel associated with the subject property were unaware of current or other historical USTs at Area H. No evidence of USTs was observed by ARCADIS BBL during the site reconnaissance of Area H. No RECs were noted in association with USTs for Area H.

Based on historical sources reviewed, several residential structures were present throughout the subject property. Therefore, the former residences apparently utilized a heating source other than natural gas, such as heating oil, coal or wood. ARCADIS BBL contacted the Genesee County Historical Society in an attempt to obtain general information pertaining to the historical heating source prior to the installation of natural gas in the vicinity of the subject property. A representative with the Genesee County

Historical Society indicated that most residences utilized heating oil, which was most commonly stored in ASTs located in the basement. Alternately, some homes may have had fuel oil stored in ASTs next to the house.

2.1.4 Hydraulic Equipment

Personnel associated with the subject property were unaware of underground hydraulic equipment currently present at Area H, and no underground hydraulic equipment was known to have historically existed at Area H. No evidence of existing, former or abandoned underground hydraulic equipment was observed by ARCADIS BBL during the site reconnaissance.

No RECs or other environmental issues were noted in association with hydraulic equipment for the subject property.

2.1.5 Aboveground Storage Tanks

According to the EDR report and research completed, there are no ASTs currently present at the subject property, and no ASTs were known to have historically existed at the vacant, inactive parking lot of Area H. Two ASTs were present at the Former Building 9 Area of Area H, including a 3,000 gallon (gal) fire hazard quench oil dump tank and a 6,000-gal hydraulic oil tank that were drained of oil and high-pressure washed and scrapped along with other steel from Building 9 Area during demolition activities. Personnel associated with the subject property were unaware of current or historical ASTs at Area H. No ASTs were observed by ARCADIS BBL during the site reconnaissance at Area H. However, the former presence of the two ASTs at the Former Building 9 Area of Area H constitutes a REC.

2.1.6 Site Drainage Features, Structures, and Discharges

The storm water discharge point was located adjacent to the industrial wastewater sump in the northeast corner of Former Building 9 Area of Area H, according to previous reports completed for the Former Building 9 Area. The area was identified as PAOC #2 in the Phase I ESA as reported in the *Phase I Environmental Assessment Building 9 Delphi-Flint West Facility, Flint, Michigan, Blasland, Bouck & Lee, Inc [BBL], June 1997*; hereafter referred to as the *Building 9 Phase I ESA*, and is considered a historical REC. In addition, as reported in the *Building 9 Phase I ESA*, a documented release of oil to the storm water system occurred on August 19, 1991. The oil was discharged to the City of Flint storm sewer system and created a 20-foot wide sheen

on the Flint River 0.5 miles downstream of the associated outfall. Apparently, the wastewater treatment sump pump was not adequate to handle the waste water flow rate, presumably due to rainwater. Samples of the outfall water were collected and laboratory analyses did not indicate the presence of elevated levels of constituents of concern (COCs). The pipe leading to the storm water system from the process wastewater sump was plugged in 1995. The pump was decontaminated and removed, and the sump was pressure cleaned. The sump was then backfilled and capped with cement. This release constitutes a REC for the subject property.

In general, stormwater at the vacant, inactive parking lot of Area H appears to flow into a storm drain situated in the northeastern portion of the lot. From the storm drain the storm water flows into the City of Flint storm sewer system. The vacant, inactive parking lot of Area H is sloped to the north so storm water flows into the storm drain in the northwestern portion of the property.

No water or sewer services are currently provided to Area H. According to field cards obtained from the City of Flint Assessing Department and a representative of the City of Flint, sanitary and storm water sewer services are provided to surrounding properties, and thus are connected to the City of Flint water and sewer utilities. Based on a review of historical sources, several former residential structures were identified on the subject property, which may have utilized an on-site septic system and associated drainage field. ARCADIS BBL contacted the City of Flint Water Pollution Control Department and Water Service Center several times in an attempt to obtain information pertaining to the timeframe when city sewer and water services would have been available in the area. However, a response was not received prior to submittal of this report. Therefore, the potential exists for drainage structures associated with one or more former on-site septic systems to be present at the subject property, which represents a potential site development issue with regards to the subject property. No other RECs were noted in association with site drainage for the subject property.

2.1.7 Other Hazardous Substances and Petroleum Products

During site reconnaissance, ARCADIS BBL did not observe evidence of hazardous materials or petroleum based products at Area H. However, based on historical sources and as discussed previously in Section 2.1.1, other hazardous substances and petroleum products were used at the Former Building 9 Area of Area H. Their use and storage are considered a REC for the subject property. These substances, as reported in the *Building 9 Phase I ESA*, would consist of the following:

- PCB oil used in the transformers at the former electrical substation located immediately north of the Former Building 9 Area of Area H.
- Chrome plating solutions.
- Trichloroethylene (TCE) used in some of the degreasing processes.
- Quench, lubricating, grinding and welding, and hydraulic oils, including oils recycled through the plant.

Based on historical sources, the vacant, inactive parking lot of Area H has been utilized as a parking lot since approximately 1982, which was formerly utilized in conjunction with Former Building 9 Area. Personnel associated with the subject property were unaware of hazardous substances or petroleum products having been historically used or stored at the vacant, inactive parking lot of Area H.

2.1.8 Suspect Asbestos-Containing Building Materials

An asbestos survey was not conducted as part of this Phase I ESA. No structures or discarded building materials containing suspect ACM were observed by ARCADIS BBL during the site reconnaissance of the subject property. ACM was properly removed and disposed of during the decommissioning of the Former Building 9 Area, as described in previous reports pertaining to the Former Building 9 Area. No other environmental issues were identified in association with suspect ACM.

2.1.9 Lead-Based Paint

A lead-based paint survey was not conducted as part of this Phase I ESA. No painted building structures or discarded painted materials containing suspect lead-based paint were observed by ARCADIS BBL during the site reconnaissance of the subject property. Lead abatement and disposal activities were properly completed on the Former Building 9 Area columns during decommissioning activities as described in previous reports pertaining to the Former Building 9 Area. However, due to the age of the site, there is a possibility that lead-based paint was used for painting the fencing and/or parking lot striping. No other environmental issues were noted in association with lead-based paint.

2.1.10 Polychlorinated Biphenyl-Containing Materials

Personnel associated with the subject property were unaware of PCB-containing materials currently present at Area H. However, as reported in previous reports completed for the Former Building 9 Area, a former PCB-containing transformer was located in the electrical substation located immediately north of the Former Building 9 Area. The former presence of the PCB-containing transformer is now considered a REC in regard to the subject property. During the site reconnaissance, ARCADIS BBL did not observe electrical transformers or other potential PCB-containing equipment on the subject property; although, ARCADIS BBL did not closely inspect the Consumers Energy Asylum Substation for electrical components containing PCBs. Electricity appears to be provided to the subject property via underground electrical conduit/cable supply lines, based on the presence of three light poles in the northern portion of the subject property, and by the Consumers Energy Substation itself. Electricity is provided to surrounding areas from pole-mounted transformers located offsite. Consumers Energy provides electricity to the surrounding area and the subject property. No other RECs were noted in association with potential PCB-containing materials.

2.1.11 Radon Gas

Information regarding radon concentrations in the vicinity of the subject property was obtained by EDR. Details regarding this information are presented in the Geocheck® Addendum to the EDR Radius Map Report, which is attached as Appendix D.

Genesee County is located within Radon Zone 2, where indoor radon levels are greater than or equal to 2 picoCuries per liter (pCi/L) and less than or equal to 4 pCi/L. This information was derived from the USEPA Radon Map, which is based on indoor radon screening samples compiled by the USEPA, geologic and soil analysis, and the foundation types typically found within each zone. The Michigan Radon Information for the zip code 48504 reported average radon activity of 1.7 pCi/L in the 59 sites tested. Radon sample locations were not provided in Michigan Radon Information. The Federal Area Radon Information for the zip code 48504 reported average radon activity of 2.150 pCi/L in basement areas from 4 sites tested. First floor and second floor living areas were not reported. No building structures are present on the subject property. The USEPA safety standard for radon gas in residences is 4 pCi/L and the United States Council on Radiation Protection and Measurement (NCRP) standard is 8 pCi/L.

In consideration of typical Genesee County radon levels, radon is not considered an environmental issue for the subject property.

2.1.12 Wetlands Identification

A wetland survey or delineation was not conducted for this Phase I ESA. ARCADIS BBL contracted EDR to conduct a records search of the U.S. Fish and Wildlife Service 2002 National Wetlands Inventory (NWI) for the subject property and surrounding area. The EDR report indicated that NWI electronic data coverage was available for the subject property, and that the subject property is not located in a federal wetland area. The EDR report also had coverage of state wetlands. The subject property is not shown to exist in a designated state wetland area. Federal wetland areas are not depicted within one mile of the subject property. A state wetland area is located less than 0.125 mile east, southeast, south, and southwest of the subject property. Federal Emergency Management Agency (FEMA) flood plain panel data indicated that the subject property is not located in a 100-year or 500-year flood zone. Federal 100-year and 500-year flood zone areas are depicted less than 0.125 mile east, southeast, south, and southwest of the subject property. These are associated with the Flint River flood plain.

ARCADIS BBL did not observe wetland-type vegetation (i.e., cattails and grasses) on the subject property. Based on the information obtained from EDR and the site reconnaissance, the subject property does not appear to contain wetlands.

2.1.13 Solid and Special Waste

Personnel associated with the subject property were unaware of current generation of solid waste at the subject property, and ARCADIS BBL did not observe solid waste generation activities at the time of the site reconnaissance. No evidence of significant discarded solid waste or debris was observed by ARCADIS BBL during the reconnaissance of Area H. A review of previous reports completed for the Former Building 9 Area of Area H indicated that wastes were containerized in roll-offs or drums and temporarily stored (less than 90 days) at the north storage area of the Former Building 9 Area, until it was transported offsite for proper disposal or transferred to a storage shed at the Former GM Delphi E – Flint West Building 2, "17 yard." The wastes appeared to have been characterized and managed effectively according to previous documentation. No other evidence of significant discarded solid waste or debris was identified on Area H. No RECs were noted in association with solid or special waste for the subject property.

2.1.14 Hazardous Waste

According to previous reports completed for the Former Building 9 Area of Area H, a former chrome plating area was located in the southwest portion of Former Building 9 Area. During its operation plant personnel maintained Michigan Department of Natural Resources (MDNR) (now the MDEQ) uniform hazardous waste manifests related to the materials generated from the operation. The manifests indicated that 3,000-gal of Reportable Quantity (RQ) hazardous waste was transported off-site weekly in relation to operations at the former chrome plating area.

According to personnel associated with the subject property, hazardous waste is not generated on the vacant, inactive parking lot of Area H, and there are currently no activities occurring at the subject property, other than the Consumers Energy electric substation. The EDR database report does not have occupants or hazardous waste listings for the subject property. Evidence of on-site hazardous waste disposal was not observed by ARCADIS BBL during subject property reconnaissance. No RECs were noted in association with hazardous waste generation, handling, or disposal for the subject property; although the former chrome plating area is identified as a REC.

2.1.15 Air Emissions

According to personnel associated with the subject property, there are currently no operations or equipment at the subject property that require air emissions permitting or testing. During the site reconnaissance, ARCADIS BBL did not observe equipment which would be associated with air emission sources.

Based on previous reports completed for the Former Building 9 Area of Area H, eight air permits were required for plant operations at Former Building 9 Area. In addition, information from the facility files indicated that all of the permits were in order and that the facility was in compliance with the applicable regulations at the time of operation. No RECs were noted in association with air emissions for the subject property.

2.1.16 Spills/Releases

Five Potential Areas of Environmental Concern (PAOCs) that are now considered historical RECs for the subject property were identified. These PAOCs pertain specifically to the Former Building 9 Area of Area H, and are described in the *Building 9 Phase I ESA*. Two of them are now recognized as historical RECs in regard to spills

and/or release of substances at the subject property to the environment. They are as follows:

- PAOC #2 – Stormwater Pump and Sump in North Storage Area: Releases of oils were observed during the October 1995 site walk through, and historically, formed the overflow of the north storage yard stormwater and wastewater collection system. The north storage yard was located immediately north of Former Building 9 Area. The overflow of the material was documented as flowing 75 to 100 feet east along the adjacent railroad tracks, and onto Stevenson Street.
- PAOC #5 – Former TCE Degreasing Unit and Sump - The source of the TCE groundwater impacts 150 feet downgradient of the Former Building 9 Area is unknown, but it may have been the former degreasing unit and sump, located in the south-central portion of Former Building 9 Area. Further investigation was recommended to determine if COCs are present in the surrounding soil and groundwater due to the presence of this known TCE operation and a documented historical release from this same PAOC.

PAOC #2 was investigated as documented in the *Building 9 Phase II SIR* (BBL, June 1997). The additional investigation activities included the installation of soil borings and temporary monitoring wells. Semivolatile organic compounds (SVOCs) were not detected in soil or groundwater, and metals were not detected above Michigan regulatory cleanup criteria. Based on these results, the area was no longer considered a PAOC.

PAOC #5 was investigated as reported in the *Building 9 Phase II SIR* (BBL, June 1997). The additional investigation activities included the installation of soil borings and temporary monitoring wells. SVOCs and volatile organic compounds (VOCs) were not detected in soil. SVOCs were not present in detectable concentrations in groundwater samples, although a VOC, cis-1,2-dichlorethane was detected. However, a problem with the laboratory containers yielded potentially unreliable analytical data for the VOCs. Additional groundwater sampling was recommended to confirm the presence of VOCs in groundwater at this location. Based on these results, the area was still considered a PAOC.

Additional investigation was performed at PAOC #5. The investigation is discussed in the *Supplemental Phase II Environmental Site Investigation Report, Building 9, Delphi-Flint West Facility, Flint, Michigan* (BBL, February 1998; hereafter referred to as the

Supplemental Building 9 Phase II SIR). VOCs were detected in groundwater samples collected from PAOC #5 but not in concentrations exceeding the Michigan regulatory cleanup criteria. Therefore, this PAOC was eliminated.

In addition, as reported in the *Building 9 Phase I ESA*, a documented release of oil to the storm water system occurred on August 19, 1991. The oil was discharged to the City of Flint storm sewer system and created a 20-foot wide sheen on the Flint River 0.5 miles downstream of the associated outfall. Apparently, the wastewater treatment sump pump was not adequate to handle the waste water flow rate, presumably due to rainwater. Samples of the outfall water were collected and laboratory analyses did not indicate the presence of elevated levels of COCs. The pipe leading to the storm water system from the process wastewater sump was plugged in 1995. The pump was decontaminated and removed, and the sump was pressure cleaned. The sump was then backfilled and capped with cement. This spill is now considered a REC for the subject property.

Personnel associated with the subject property were unaware of documented releases or spills at Area H to the environment. No subject property releases were identified in the EDR database report for the subject property. ARCADIS BBL did not observe evidence of spills or releases during the site reconnaissance of the subject property. No RECs were noted in association with spills or releases at the vacant, inactive parking lot of Area H; although, the two spills in association with Former Building 9 Area of Area H constitute historical RECs, and the August 19, 1991 release of oil to the City of Flint storm sewer is now considered a REC.

2.1.17 CERCLA Liability Potential and Special Liens

The subject property is not listed on the NPL or in the State Hazardous Waste Site Database. No documents were reviewed during this ESA that indicated that the subject property has received notification from any government agency or third party of liability as a potential responsible party for any hazardous waste treatment, storage, or disposal on-site. No documentation was reviewed that indicated that the owner of the subject property has defended any environmental related claims or litigation asserted by any governmental agency or third party, and or that potential claims or litigation presently exist with regard to the subject property.

ARCADIS BBL conducted a search for both federal (U.S.) and MDEQ institutional controls at the subject property through EDR, through a FOIA request to the MDEQ, as well as a search for environmental liens on the subject property at the Genesee County

Register of Deeds. The EDR search of databases did not indicate the presence of institutional controls at the subject property. Based on current and historical deeds reviewed at the Genesee County Register of Deeds for GM, Chevrolet and Delphi, no deeds pertaining to the subject property were identified. In addition, the MDEQ contacted ARCADIS BBL and indicated that no institutional controls or environmental liens have been recorded for the historical addresses associated with the former structures. Therefore, it appears that no environmental liens or deed restrictions have been recorded for the subject property.

2.2 Site History Review

2.2.1 Property Usage

City Directories

ARCADIS BBL contracted EDR to perform a City Directory search of adjacent street addresses. City Directory listings were available from EDR for the years 1905 through 2006. However, City Directory listings were not available for the subject property.

No listings were available from 1905 to 1912. Farah & Khouri (grocers) occupied 1206 and 1210 Glenwood Avenue in 1918. A tailor was listed at 1214 Glenwood Avenue in 1918. Residents were listed at various addresses along Glenwood Avenue in 1918, 1923, 1927, 1932, 1937, 1942, 1947, 1952, 1956, 1961, 1966, 1971, and 1976. Martin Apartments, Ernest Wells (cigars), and Brady Orville (barber) were listed at 414 Asylum in 1918. Martin Apartments was listed at 1202 Glenwood Avenue in 1927, 1932, 1937, 1942, 1947, 1952, 1956, 1961, 1966, 1971, 1976, 1981, and 1986. Other retail businesses and unions were listed at various addresses along Glenwood Avenue and Asylum including: restaurants, taverns, barbers, plumbers, United Auto Workers (UAW) Security, Police & Fire Professionals of America (SPFPA), and a shoe repair store during the years 1918 to 2006.

The City Directory report with adjacent street address listings is included in Appendix E. No RECs or other environmental issues were noted in association with the city directory search for Area H.

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 1886, 1892, 1898, 1902, 1909, 1914, 1928, 1950, and 1970 were available in the EDR Historic Map Collection and were reviewed for the subject property and surrounding properties. Sanborn® Maps are included in Appendix E. The following tables summarize the features observed on the Sanborn® Maps:

Sanborn® Map Year	Area H
1886	Coverage does not include Area H.
1892	Seven residential structures are depicted on Area H. West Kearsley is depicted immediately north of the vacant, inactive parking lot of Area H, and south of the Former Building 9 Area of Area H, beyond which the Flint Wagon Works facility is present. Coverage of the property northeast and east of the subject property was not provided. Residential structures are depicted southeast of the subject property. Asylum Street is depicted immediately south-southwest of the subject property, beyond which residential structures and Glenwood Avenue are present. Asylum Street and Glenwood Avenue are depicted west of Area H, beyond which a residential structure and a stable are present.
1898	Robinson Street is depicted on the northeastern portion of Area H. Four more residential structures with outbuildings are present on Area H. No other significant discernable changes were noted regarding the subject property and the surrounding properties.
1902	No significant discernable changes were noted regarding the subject property and the surrounding properties.
1909	Three additional residential structures are depicted on the northeastern portion of the vacant, inactive parking lot of Area H. No significant discernable changes were noted regarding the surrounding properties.

Sanborn® Map Year	Area H
1914	Five residential structures and Robinson Street are depicted on the vacant, inactive parking lot of Area H. A residential structure is depicted north of the vacant, inactive parking lot of Area H. Thirteen residential structures are now present on the Former Building 9 Area of Area H, west of Stevenson Street. West Kearsley is depicted immediately south of the subject property. The Grand Truck Railroad is depicted immediately north-northwest of the subject property, beyond which the Chevrolet Motor Company factory is present.
1928	No significant discernable changes were noted regarding the subject property and the surrounding properties.
1950	An active facility as part of the Chevrolet Flint Division of the General Motors Corporation is present at the Former Building 9 Area of Area H.
1970	No significant discernable changes were noted regarding the subject property and the surrounding properties.

No RECs were noted in association with historical Sanborn® Maps of the subject property; however, the several historical residential structures present an other environmental issue which is summarized in Sections 2.1.6 and 2.3.3.

Topographic Maps

Topographic maps assist in the identification of regional land and development features. Topographic maps were obtained from EDR for the years 1922, 1969, and 1975, and obtained from TerraServer USA on the Internet for the year 1990. Topographic maps are included in Appendix E. The following table summarizes the features observed on the historical topographic maps:

Topographic Map Year	Area H
1922	The elevation of the subject property is approximately 721 feet above mean sea level (amsl). Due to the scale of the map, attributes on the subject property are not easily discernable. The subject property is depicted as developed with at least one residential home. One or more streets traverse Area H from north to south. The Grand Trunk Railroad is depicted immediately north of the subject property, beyond which the Flint River is present. A small residential area, a vacant area, and a building are depicted east of the subject property. A street and a residential area are depicted south of the subject property. The Grand Trunk Railroad is depicted immediately west of the subject property, beyond which several buildings and the Flint River are present.
1969	Kearsley Street traversed the central portion of Area H from east to west. A large building is depicted in the Former Building 9 Area of Area H, and Stevenson Street, the Grand Trunk Railroad, several buildings associated with the General Motors Institute, and the Flint River are present. A street, a vacant area, and Stevenson Street are depicted east of the subject property, beyond which a large building and the Flint River are present. A vacant and undeveloped area existed south of the subject property, beyond Glenwood Avenue. Two buildings are depicted immediately southwest of the subject property, beyond which Kearsley Street, Hazelton School, and a residential area are present. The Grand Trunk Railroad is depicted immediately north and west of the subject property, beyond which several buildings and the Flint River are present.
1975	The south portion of Area H is depicted as vacant and undeveloped. An addition was added on the building depicted on the Former Building 9 Area of Area H. Kearsley Street, located southeast of the subject property, was re-routed to the south. No other significant discernable changes were noted regarding the surrounding properties.
1990	Due to the reduced quality of the 1990 topographic map, Area H and surrounding property attributes are not discernable.

No RECs were noted in association with historical topographic maps of the subject property; however, the several residential structures present an other environmental issue which is summarized in Sections 2.1.6 and 2.3.3.

Aerial Photographs

Aerial photographs assist in the identification of subject property features and outdoor activities of potential environmental concern. Aerial photographs were obtained from EDR and Google Earth on the Internet. Aerial photographs for the years 1941, 1950, 1964, 1972, 1982, 1992, 1997, and a recent unknown date were reviewed by ARCADIS BBL and are included in Appendix E. The following table summarizes features observed on the aerial photographs:

Aerial Photo Year	Area H
1941	Two facilities are depicted on the Former Building 9 Area of Area H, including a smaller building in the southeast corner, and main building. Two buildings are also depicted in the southern portion of Area H. A portion of Kearsley Street is shown to traverse of Area H. The Grand Trunk Railroad, the Flint River, and several buildings are depicted northwest of the subject property. A residential area is depicted east of the subject property. A building and a residential area are depicted south of the subject property. A street is depicted immediately southwest of the subject property, beyond which a residential area is present.
1950	No significant discernable changes were depicted regarding the subject property. A large parking lot is depicted northeast of the Former Building 9 Area of Area H, beyond Kearsley Street. No other significant discernable changes were noted regarding the surrounding properties relative to the 1941 photograph.
1964	No significant discernable changes were depicted regarding the subject property. A large oblong shaped parking lot is depicted southwest of the Former Building 9 Area of Area H, beyond Asylum Street. No other significant discernable changes were noted regarding the surrounding properties relative to the 1950 photograph.
1972	A facility is still present on the Former Building 9 Area of Area H, with a recent addition to the facility. The southern portion of Area H is depicted as a parking lot with several parked automobiles. A portion of the Flint River was straightened further north of the subject property. The property located immediately east of the subject property is depicted as a parking lot, beyond which a two streets, a large building, and a parking lot are present. No other significant discernable changes were depicted relative to the 1964 photograph.

Aerial Photo Year	Area H
1982	The Grand Trunk Railroad, several buildings, and the Flint River are depicted north of the subject property. Kearsley Street was re-routed and is depicted along the subject property's southeastern boundary. No other significant discernable changes were depicted regarding the surrounding properties relative to the 1972 photograph.
1992	No significant discernable changes were depicted regarding the subject property and surrounding properties relative to the 1982 photograph.
1997	The buildings located immediately north and immediately southwest of the subject property are no longer depicted, nor is the building at the Former Building 9 Area of Area H. No other significant discernable changes were depicted relative to the 1992 photograph.
Recent	An electronic substation is depicted in the south-central portion of the Former Building 9 Area of Area H. No other significant discernable changes were depicted regarding Area H. Several buildings located northwest of the subject property, beyond the Grand Trunk Railroad, are no longer depicted. No other significant discernable changes were depicted relative to the 1997 photograph.

No RECs were noted in association with historic aerial photograph review of the subject property; however, the former historical residential structures present an other environmental issue which is summarized in Sections 2.1.6 and 2.3.3.

2.2.2 Regional Geology

Information regarding the regional geology in the subject property vicinity was obtained from the Geotcheck[®] Addendum to the EDR Radius Map Report. The subject property is located approximately 721 feet amsl. The topographic gradient in the area surrounding the subject property slopes gradually to the north-northeast.

EDR regional data indicates that the surface soil texture in the area of the subject property is loam. The soil component name is BROOKSTON. Soil meets the requirements for a hydric soil. Soils are described as being poorly drained and wet to the surface most of the time. The depth to the water table is less than one foot below ground level (bgl), or is ponded. EDR describes soil layers as: loam from 0 to 14 inches bgl; clay loam from 14 to 46 inches bgs, and loam from 47 to 66 inches bgl. Underlying the surface, shallow, and deeper soils are the bedrock deposits

classified as Paleozoic Era, Pennsylvanian System, and Atokan and Morrowan Series.

2.2.3 Regional Hydrogeology

Information regarding the regional hydrogeology of the subject property vicinity was obtained from the Geoscheck® Addendum to the EDR Radius Map Report investigations. Seven AQUIFLOW® points were located within 1 mile of the subject property. Based on data provided in the AQUIFLOW® points and local topography, the estimated depth to groundwater in the vicinity of the subject property is approximately 1 to 10 feet bgl. The groundwater flow direction reported for the AQUIFLOW® points varied. Based on local topography and the close proximity to the Flint River, the groundwater flow direction is likely to the northeast, towards the Flint River. However, localized groundwater flow direction may vary based on several factors. A hydrogeologic investigation would be required to make a more definitive determination of the localized groundwater flow direction.

2.2.4 Previous Investigations

A Phase I ESA was completed in 1995-1996 at the portion of Area H associated immediately with the Former Building 9 Area. This Phase I ESA is documented in the *Building 9 Phase I ESA* (BBL, June 1997a). Five PAOCs that are now considered historical RECs for the subject property, were identified as described below:

- PAOC #1 – Electrical Substation: Oil was observed seeping through cracks in the south wall of an electrical substation with transformers, located immediately north of Former Building 9 Area. The cracks were plugged with silicone caulk but further investigation was recommended to determine if constituents of concern (COCs) are present in the surrounding soil and groundwater as a result of any possible impact due to the presence of the oil.
- PAOC #2 – Stormwater Pump and Sump in North Storage Area: Releases of oils were observed during the October 1995 site walk through, and historically, formed the overflow of the north storage yard stormwater and wastewater collection system. The north storage yard was located in the northern portion of the Former Building 9 Area. The overflow of the material was documented as flowing 75 to 100 feet east along the adjacent railroad tracks, and onto Stevenson Street. Additional investigation was recommended to determine if

COCs are present in the surrounding soil and groundwater as a result of any possible impact due to the presence of the materials.

- PAOC #3 – Gravel Area, Northwest Side of Building: Oil staining was observed on the gravel area along the northwest side of Former Building 9 Area during the October 1995 site walk through. During the June 1996 property visit, GM personnel indicated that the area was excavated to a depth of 6 to 12 inches, and the excavated material disposed of offsite. Additional investigation was recommended to determine if COCs are present in the surrounding soil and groundwater as a result of any possible impact due to the presence of the oil staining.
- PAOC #4 – Fire Protection Trench Excavation Area: On November 26, 1996, during trench excavation activities for a fire protection system in Former Building 9 Area, an oil-like substance was observed seeping into a trench in the vicinity of Column 9-B, located in the northeast portion of the building. Additional investigation was recommended to determine if COCs are present in the surrounding soil and groundwater as a result of any possible impact due to the presence of the oil, and whether light nonaqueous phase liquid (LNAPL) could accumulate within a monitoring well installed at the location of the seepage.
- PAOC #5 – Former TCE Degreasing Unit and Sump - The source of the TCE groundwater impacts 150 feet downgradient of the Former Building 9 Area is unknown, but it may have been the former degreasing unit and sump, located in the south-central portion of Former Building 9 Area. Further investigation was recommended to determine if COCs are present in the surrounding soil and groundwater due to the presence of this known TCE operation and a documented historical release from this same PAOC.

PAOCs #1 and #2 were investigated by BBL as documented in the *Phase II Environmental Site Investigation Report, Building 9, Delphi-Flint West Facility, Flint, Michigan* (BBL, June 1997b; hereafter referred to as the *Building 9 Phase II SIR*). The additional investigation activities included the installation of soil borings and temporary monitoring wells. SVOCs were not detected in soil or groundwater, and metals were not detected above Michigan regulatory cleanup criteria at either PAOC. Based on these results, the areas were no longer considered PAOCs.

PAOC #3 was investigated as reported in the *Building 9 Phase II SIR* (BBL, June 1997). The additional investigation activities included the installation of soil borings and temporary monitoring wells. SVOCs were not detected in soil or groundwater, and metals were not detected above Michigan regulatory cleanup criteria. Volatile organic compounds (VOCs) were detected, including TCE. In addition, a problem with the laboratory containers yielded potentially unreliable analytical data for the VOCs. Additional groundwater sampling was recommended, including the installation of a temporary groundwater monitoring well in the vicinity of the former TCE degreasing unit and sump. Based on these results, the area was still considered a PAOC.

PAOC #4 was investigated as reported in the *Building 9 Phase II SIR* (BBL, June 1997). The additional investigation activities included the installation of soil borings and temporary monitoring wells. SVOCs were detected in groundwater samples in concentrations above the Michigan regulatory cleanup criteria, including Groundwater Contact Criteria (GCC) and Groundwater Surface Water Interface (GSI) criteria. Metals were detected in concentrations above GSI criteria. It was recommended that a permanent groundwater monitoring well be installed at the PAOC to determine if LNAPL is present and to resample the groundwater to confirm the exceedences of GCC. The installation of additional groundwater monitoring wells was recommended if the exceedences of GCC are confirmed. Based on these results, the area was still considered a PAOC.

PAOC #5 was investigated as reported in the *Building 9 Phase II SIR* (BBL, June 1997). The additional investigation activities included the installation of soil borings and temporary monitoring wells. SVOCs and VOCs were not detected in soil. SVOCs were not present in detectable concentrations in groundwater samples, although a VOC, cis-1,2-dichloroethane was detected. However, a problem with the laboratory containers yielded potentially unreliable analytical data for the VOCs. Additional groundwater sampling was recommended to confirm the presence of VOCs in groundwater at this location. Based on these results, the area was still considered a PAOC.

Additional investigation was performed at the three remaining PAOCs #3, #4, and #5. The investigation is discussed in the *Supplemental Phase II Environmental Site Investigation Report, Building 9, Delphi-Flint West Facility, Flint, Michigan* (BBL, February 1998; hereafter referred to as the *Supplemental Building 9 Phase II SIR*). The results of the investigations are as follows:

- No VOCs were detected in monitoring wells installed downgradient of PAOC #3, although vinyl chloride was detected in concentrations exceeding GSI criteria in a groundwater sample collected at PAOC #3. PAOC #3 was eliminated as a PAOC due to the groundwater quality identified in the downgradient monitoring wells.
- SVOCs and copper were found not to be present in the groundwater sample collected at a monitoring well installed at PAOC #4. LNAPL was not observed accumulating within the well, although additional observation was recommended before eliminating this area as a PAOC.
- VOCs were detected in groundwater samples collected from PAOC #5 but not in concentrations exceeding the Michigan regulatory cleanup criteria. Therefore, this PAOC was eliminated.

Additional soil and groundwater sampling activities were performed at the Former Building 9 Area by Soil and Materials Engineers, Inc. (SME) as reported in the *Baseline Environmental Site Assessment, Former Building 9 (Asylum Substation), Delphi – Flint West facility, Flint, Michigan* (BBL, September 1998; hereafter referred to as the *Former Building 9 BESA*). The sampling was performed to assess environmental conditions in anticipation of the construction and operation of the Consumers Energy Asylum Substation at the Former Building 9 Area.

Soil and groundwater samples were collected at PAOCs #1, #4, and #5, and at the former chrome plating area in the southwest corner of Former Building 9 Area, as well as the southeast corner of the Former Building 9 Area footprint. The soil and groundwater samples were analyzed for the presence of VOCs, SVOCs, PCBs, and metals. However, data validation results demonstrated that the data, except for the cyanide results, did not satisfy the guidelines for quantitative interpretation. Therefore, the affected data was flagged and was used only for qualitative interpretive purposes only. Although concentrations of COCs at individual sampling locations did exceed the GSI and GCC values, a statistical analysis was completed by BBL to determine if the positive detections were significant. None of the COCs detected exceeded GCC or GSI after the statistical procedures were applied, except for barium. The *Former Building 9 BESA* stated that the water-bearing unit at the Building 9 Area property was not considered an aquifer, and groundwater concentrations of barium would attenuate as the groundwater migrated toward the Flint River. No additional investigation was warranted based on this interpretation, coupled with the lack of detections of VOCs and SVOCs downgradient of the Former Building 9 Area footprint.

Other RECs were found to be present based on a review of the documents related to Former Building 9 Area in preparation of the current investigation of the subject property. The other RECs include:

- As reported in the *Building 9 Phase I ESA*, a documented release of oil to the storm water system occurred on August 19, 1991. The oil was discharged to the City of Flint storm sewer system and created a 20-foot wide sheen on the Flint River 0.5 miles downstream of the associated outfall.
- System of sumps used in connection with the exhaust valve forge presses and forge press pits that were used to recycle lubricating oils.
- Quench oil pits and system of sumps used in connection with the quench pits to manage the quench oil.
- A former chrome plating area was located in the southwest portion of Former Building 9 Area. As reported in *Building 9 Phase I ESA*, MDNR (now the MDEQ) uniform hazardous waste manifests were obtained from plant personnel. The manifests indicate that 3,000-gal of reportable quantity (RQ) hazardous waste was transported off-site weekly in relation to operations at the former chrome plating area.
- All ASTs, including the 3,000 gallon (gal) fire hazard quench oil dump tank and a 6,000-gal hydraulic oil tank that were drained of oil and high-pressure washed and scrapped along with other steel from Building 9 Area during demolition activities.
- An underground storage tank (UST) excavation performed in 1985 for which no written documentation exists.
- A PCB-containing transformer located in the electrical substation previously identified above with PAOC #1.
- Oil sump and trench system associated with the grinding and forming areas, located in the southern and central part of Former Building 9 Area. The oil-based trench system distributed, collected, and recycled grinding and welding oils.

- Sump and trench system associated with the welding, forging, and heat treating processes was located in the northern portion of Former Building 9 Area. The soluble oil-trench system distributed, collected, and recycled lubricants.

The previous reports are referenced in Section 5.0 and in Appendix F.

2.3 Federal, State, and Local Agency File Review

2.3.1 Environmental Database Search

ARCADIS BBL contracted EDR to conduct a search of federal and state environmental databases. Based on the location of the subject property, the database searches were completed to assist in the identification of conditions at or surrounding the subject property. Databases were searched to within the approximate minimum ASTM search distance plus an additional 0.125 mile for each database. The complete EDR Radius Map Report is attached as Appendix D. The following is a list of databases reviewed and respective search distances from the respective target area.

Federal Databases

- National Priority List (NPL) – 1.125 mile
- Proposed NPL – 1.125 mile
- NPL Recovery – 0.125 mile
- Comprehensive Environmental Response, Compensation, and Liability Act Information System (CERCLIS) – 1.125 mile
- CERCLIS – No Further Remedial Action Planned (CERCLIS-NFRAP) – 0.625 mile
- Corrective Action Reports (CORRACTS) – 1.125 mile
- Resource Conservation and Recovery Information System permitted treatment, storage, and disposal facilities (RCRA-TSD) – 0.625 mile
- RCRA small/large quantity generators of hazardous waste (RCRA-SQG/RCRA-LQG) – 0.375 mile
- Emergency Response Notification System (ERNS) – 0.125 mile
- Engineering Controls Site Listing (US ENG CONTROLS) – 0.625 mile
- Institutional Controls Site Listing (US INST CONTROL) – 0.625 mile
- Superfund (CERCLA) Consent Decrees (CONSENT) – 1.125 mile
- Records of Decision (ROD) – 1.125 mile
- Delisted NPL Sites – 1.125 mile
- Facility Index System (FINDS) – 0.125 mile

- Hazardous Materials Information Reporting System (HMIRS) – 0.125 mile
- Material Licensing Tracking System (MLTS) – 0.125 mile
- Mines Master Index File (MINES) – 0.375 mile
- NPL Liens – Target Area
- PCB Activity Database System (PADS) – 0.125 mile
- Open Dump Inventory (ODI) – 0.625 mile
- US BROWNFIELDS – 0.625 mile
- Department of Defense Sites (DOD) – 1.125 mile
- Uranium Mill Tailings Sites (UMTRA) – 0.625 mile
- Formerly Used Defense Sites (FUDS) – 1.125 mile
- RCRA Administrative Action Tracking System (RAATS) – 0.125 mile
- Toxic Chemical Release Inventory System (TRIS) – 0.125 mile
- Toxic Substances Control Act (TSCA) – 0.125 mile
- FIFRA Section 7 Tracking Systems (SSTS) – 0.125 mile
- FIFRA/TSCA Tracking System (FTTS) – 0.125 mile

State/Local Databases

- MDEQ Contaminated Sites List (SHWS)– 1.125 mile
- MDEQ Solid Waste Facilities Database (SWF/LF) – 0.625 mile
- MDEQ Leaking Underground Storage Tank Sites (LUST) – 0.625 mile
- MDEQ Underground Storage Tank Facility List (UST) – 0.375 mile
- MDEQ Baseline Environmental Assessment Database (BEA) – 0.625 mile
- MDEQ Inactive Solid Waste Facilities (HIST LF) – 0.625 mile
- MDEQ Registered Aboveground Storage Tanks (AST) – 0.375 mile
- Delisted List of Contaminated Sites (DEL SHWS) – 1.125 mile
- Pollution Emergency Alerting System (PEAS) – 0.125 mile
- Brownfields Sites (BROWNFIELDS) – 0.625 mile
- Drycleaners (DRYCLEANERS) – 0.375 mile
- National Pollution Discharge Elimination System (NPDES) Permit Database – 0.125 mile
- Engineering and Institutional Controls (AUL) Database – 0.625 mile
- Permit and Emissions Inventory Data (AIRS) – 0.125 mile

Tribal Records

- MDEQ Underground Storage Tanks on Indian Land (INDIAN UST) – 0.375 mile

- MDEQ Leaking Underground Storage Tanks on Indian Land (INDIAN LUST) – 0.625 mile
- Indian Reservations (INDIAN RESERV) – 1.125 mile

EDR Proprietary Historical Databases

- Manufactured Coal Gas Sites (Coal Gas) – 1.125 mile

Other Databases

- Federal Emergency Management Agency (FEMA) Flood Zone Data – 2 miles
- National Wetlands Inventory (NWI) – 2 miles
- AQUIFLOW – 1 mile

Based on review of the EDR database report, forty-nine mapped facilities on 16 database listings were identified within one mile of the subject property. The databases identified include: RCRA-SQG, FINDS, UST, LUST, AUL, SHWS, PEAS, BEA, BROWNFIELDS, TRIS, CORRACTS, CERC-NFRAP, RCRA-TSDF, NY MANIFEST, RI MANIFEST, and Manufactured Gas Plants. The following listings were identified within one mile of the subject property:

- Cadillac Flint Tool and Die is listed at 425 South Stevenson Street, in Flint, Michigan 48504, between 0.125 and 0.25 mile northwest of the subject property. The facility is listed on the RCRA-SQG and FINDS databases. The facility is a small quantity generator of hazardous waste with EPA identification number MID982624025. No TSDF activities or violations were on record.
- Dover & Company is listed at 651 Hall Street, in Flint, Michigan 48501, between 0.125 and 0.25 mile southwest of the subject property. The facility is listed on the RCRA-SQG, RI MANIFEST and UST databases. The facility is a small quantity generator of hazardous waste with EPA identification number MIK842858367. No TSDF activities or violations were on record. The RI MANIFEST database reported loads lab pack wastes being generated at the facility and transported to offsite TSD facilities. One 1,000-gallon gasoline UST was installed at the facility on March 13, 1961 and was removed from the ground on August 1, 1988.
- GMC WHS & DIST DIV Flint Plant 3 is listed at 1515 Bluff Street, in Flint, Michigan 48554, between 0.125 and 0.25 mile northwest of the subject property. The facility is listed on the RCRA-SQG and FINDS databases. The facility is a

small quantity generator of hazardous waste with EPA identification number MID980504203. No TSD activities or violations were on record.

- Shelton Shell is listed at 921 West 3rd Avenue, in Flint, Michigan 48504, between 0.25 and 0.5 mile north of the subject property. The facility is listed on the UST database with facility ID 4170. One 4,000-gallon gasoline UST and one 3,000-gallon gasoline UST were installed at the facility on May 2, 1966. In addition, one 6,000-gallon gasoline UST was installed at the facility on May 2, 1970. The 4,000-gallon gasoline UST and the 6,000-gallon gasoline UST were removed from the ground on July 24, 1990. The 3,000-gallon gasoline UST was closed in place on July 24, 1990.
- Container Specialties, Inc. is listed at 607 West Second Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile east of the subject property. The facility is listed on the RCRA-SQG, FINDS, LUST, and UST databases. The facility is a small quantity generator of hazardous waste with EPA identification number MID985605054. No TSD activities or violations were on record. The facility had a release (Leak Number C-0168-92) of an unreported quantity of an unreported substance reported on January 31, 1990. The release was closed on October 31, 1996. Three 500-gallon hazardous substance USTs, one 500-gallon gasoline and mineral spirits UST, and one 300-gallon hazardous substance UST were installed at the facility on an unreported date and removed from the ground on February 21, 1992.
- Central Printing is listed at 129 North Grand Traverse, in Flint, Michigan 48503, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the RCRA-SQG and FINDS databases. The facility is a small quantity generator of hazardous waste with EPA identification number MID005336946. No TSD activities or violations were on record.
- 119 North Grand Traverse Street, in Flint, Michigan 48504, is located between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 396. A BEA was received by the MDEQ on October 1, 1999.
- Flint Fuel Stop, Inc. is listed at 1330 West Court Street, in Flint, Michigan, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the LUST and AUL databases. The facility had a release (Leak Number C-0529-96) of an unreported quantity of gasoline reported on July 30, 1996. The

release was closed on August 7, 2001. The facility is listed on the AUL database with facility ID 00007055 and MDEQ reference number RC-RRD-213-04-163.

- Speedway Superamerica LLC is listed at 1330 West Court Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the RCRA-SQG and FINDS databases. The facility is a small quantity generator of hazardous waste with EPA identification number MI0000008110. No TSDF activities or violations were on record.
- 1330 West Court Street, in Flint, Michigan 48420, is located between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the BEA database with BEA number 615. A BEA was received by the MDEQ on February 4, 2002.
- Former Total Station #4250 is listed at 1330 West Court Street, in Flint, Michigan 48420, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the BEA database with BEA number 718. A BEA was received by the MDEQ on March 5, 2003.
- Flint Fuel Stop, Inc. is listed at 1330 West Court Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the UST database with facility ID 00007055. Two 10,000-gallon gasoline USTs and one 15,000-gallon gasoline UST were installed at the facility on January 1, 1972, and were removed from the ground on July 30, 1996. One 8,000-gallon gasoline UST was installed at the facility on April 13, 1986, and was removed from the ground on April 23, 1986. One 6,000-gallon gasoline UST and one 12,000-gallon gasoline UST were installed at the facility on July 30, 1996. An additional 6,000-gallon gasoline UST was installed at the facility on August 15, 1996. These USTs are currently in use.
- Thread Lake is listed at the intersection of Interstate 475 and Interstate 69, in Flint, Michigan 42691, between 0.5 and 1 mile east of the subject property. The facility is listed on the BROWNFIELDS database with EPA ID 0508005. The Brownfield is listed as a Superfund site.
- Former Flint Lumber Yard is listed at 110 North Grand Traverse Street, in Flint, Michigan 48505, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 418. A BEA was received by the MDEQ on January 6, 2000.

- Flint Lumber Yard is listed at 110 North Grand Traverse Street, in Flint, Michigan 48505, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 714. A BEA was received by the MDEQ on February 21, 2003.
- Former Flint Lumber Yard is listed at 110 North Grand Traverse Street, in Flint, Michigan 48505, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 821. A BEA was received by the MDEQ on April 12, 2004.
- Delphi Energy & Engine Management Systems is listed at 300 North Chevrolet, in Flint, Michigan, between 0.25 and 0.5 mile west-northwest of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-2048-92) of an unreported quantity of an unreported substance reported on November 18, 1992. The release was closed on February 5, 1997. The facility had a release (Leak Number C-0894-90) of an unreported quantity of an unreported substance reported on May 21, 1990. This release was closed on August 22, 1995. The facility had a release (Leak Number C-0566-89) of an unreported quantity of an unreported substance reported on May 22, 1989. This release was closed on July 19, 1995. The facility had a release (Leak Number C-0551-90) of an unreported quantity of an unreported substance reported on May January 2, 1990. This release was closed on August 18, 1995. The facility had a release (Leak Number C-0291-99) of an unreported quantity of gasoline reported on March 24, 1999. This release was closed on June 21, 1999. The facility had a release (Leak Number C-0087-85) of an unreported quantity of an unreported substance reported on August 25, 1986. This release was closed on January 10, 1997. The facility had a release (Leak Number C-0086-85) of an unreported quantity of an unreported substance reported on April 18, 1985. This release was closed on July 19, 1995. The facility had a release (Leak Number C-0085-85) of an unreported quantity of an unreported substance reported on August 6, 1986. This release was closed on April 20, 2001. The facility had a release (Leak Number C-0084-85) of an unreported quantity of an unreported substance reported on May 22, 1989. This release was closed on April 1, 1997. Several USTs were installed at the facility between 1952 and 1988, and removed between 1981 and 1989. This USTs consist of five 50,000-gallon fuel oil USTs, one 20,000-gallon gasoline UST, one 16,000-gallon wash water UST, one 16,000-gallon gasoline UST, two 15,000-gallon quench oil USTs, two 12,000-gallon gasoline USTs, one 10,000-gallon

diesel UST, two 9,500-gallon water with trace of gasoline USTs, one 7,500-gallon UST, one 7,500-gallon water with trace of gasoline UST, one 2,000-gallon gasoline UST, one 2,000-gallon water with trace of gasoline UST, three 1,000-gallon gasoline USTs, one 1,000-gallon water with trace of gasoline UST, and one 550-gallon diesel UST.

- Delphi Automotive Systems LLC is listed at 300 North Chevrolet Avenue, in Flint, Michigan, between 0.25 and 0.5 mile west-northwest of the subject property. The facility is listed on the RCRA-SQG, FINDS, PADS, TRIS, RCRA-TSDF, CORRACTS, CERC-NFRAP, and NY MANIFEST databases. The facility is a small quantity generator of hazardous waste with EPA identification number MID005356654. No TSDF activities were on record. Five TSD-Other Requirements violations were issued to the facility on June 23, 1986, May 28, 1987, June 19, 1987, June 19, 1987, and June 20, 1988. Compliance with these violations was achieved on September 16, 1986, June 30, 1987, July 27, 1987, July 27, 1987 and September 28, 1988, respectively. One TSD-Financial Responsibilities violation was issued to the facility on August 30, 1988. Compliance with this violation was achieved on November 17, 1988. Two TSD-Other Requirements (Oversight) violations were issued to the facility July 28, 1989 and June 25, 1990. Compliance with these violations was achieved on September 20, 1989 and August 14, 1990, respectively. Three Generator-All Requirements (Oversight) violations were issued to the facility on March 17, 1994. Compliance with these violations was achieved on May 24, 1995. One Generator-Other Requirements violation was issued to the facility on October 6, 1998. Compliance with this violation was achieved on February 12, 2002. One Generator-Container violation was issued to the facility on October 6, 1998. Compliance with this violation was achieved on February 12, 2002. Biennial Reports for the year 2003 indicated that the facility generator hazardous waste codes including D001, D002, D005, D008, and D009. The facility is listed on the CORRACTS database as an other motor vehicle parts manufacturing facility. A RCRA Facility Investigation (RFI) was determined necessary and a RCRA Facility Assessment was completed for the facility on May 17, 1990. The facility was assigned a medium corrective action priority on September 27, 1991. The facility is listed on the CERC-NFRAP database with site ID 0506308. The facility is not on the National Priority List (NPL). The date of discovery is listed as February 16, 1990 and the preliminary assessment dates were listed as April 11, 1990 and April 12, 1991. The facility was archived on December 18, 1995. The NY MANIFEST database reported loads of non-listed corrosive wastes and mercury being generated at the facility and transported to offsite TSD facilities.

The facility is listed on the TRIS database for releases of copper, chromium, nickel, and mercury.

- GM Fisher Guide Flint is listed at 300 North Chevrolet Avenue, in Flint, Michigan, between 0.25 and 0.5 mile west-northwest of the subject property. The facility is listed on the SHWS, PEAS, and DEL SHWS databases. The facility is listed on the SHWS and DEL SHWS databases with facility ID 25000011. The facility status is listed as Deleted – available documentation does not support listing. Pollutants are listed as benzene, toluene, and xylenes. The facility is listed on the PEAS database with incident date February 12, 2004. Reportedly, raw sewage was leaking from a manhole and was flowing across the property and back into the Flint River.
- Larson Optical is listed at 1308 West Court Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-0857-00) of an unreported quantity of an unreported substance reported on October 23, 2000. The release is currently open. Two 1,000-gallon used oil USTs were installed at the facility on an unreported date and were removed from the ground on October 23, 2000.
- Allen Storage & Moving is listed at 501 West Kearsley Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the RCRA-SQG as a small quantity generator of hazardous waste with EPA identification number MIK656189776. No TSDF activities or violations were on record.
- 501 West Kearsley Street, in Flint, Michigan 48503, is located between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 671. A BEA was received by the MDEQ on August 1, 2002.
- Central Quality Services is listed at 1701 Glenwood Avenue, in Flint, Michigan 48503, between 0.25 and 0.5 mile southwest of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-0213-02) of an unreported quantity of an unreported substance reported on April 18, 2002. The release is currently open. One 6,000-gallon gasoline UST was installed at the facility on February 28, 1956. This UST was closed in place on September 30, 1986.

- 1701 Glenwood Avenue, in Flint, Michigan 48502, is located between 0.25 and 0.5 mile southwest of the subject property. The facility is listed on the BEA database with BEA number 631. A BEA was submitted by the City of Flint Community and Economic Development and was received by the MDEQ on April 18, 2002.
- Michigan School for the Deaf is listed at Miller and Court Street, in Flint, Michigan 48502, between 0.25 and 0.5 mile southwest of the subject property. The facility is listed on the UST database with facility ID 00000972. One 300-gallon gasoline UST and one 1,000-gallon gasoline UST were installed at the facility on June 10, 1952 and June 10, 1964, respectively. The USTs were removed from the ground on September 1, 1990. Two 1,000-gallon gasoline USTs were installed at the facility on October 26, 1990 and are currently in use.
- CBC Recycling is listed at 1007 Cedar Street, in Flint, Michigan 48503, between 0.25 and 0.5 mile southeast of the subject property. The facility is listed on the UST database with facility ID 00038143. One UST with unreported contents and capacity was installed at the facility on an unreported date. The UST was removed from the ground on January 1, 1997.
- NRT Owner is listed at 1625 West Third Avenue, in Flint, Michigan 48504, between 0.25 and 0.5 mile northwest of the subject property. The facility is listed on the LUST database with facility ID 50001965. A release (Leak Number C-1010-96) of an unreported quantity of an unreported substance was reported on December 5, 1996.
- Rupps Service is listed at 527 North Grand Traverse Street, in Flint, Michigan 48554, between 0.25 and 0.5 mile northeast of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-2549-90) of an unreported quantity of an unreported substance reported on December 4, 1990. The release is currently open. One 550-gallon used oil UST and one 6,000-gallon gasoline UST were installed at the facility on June 1, 1968 and April 9, 1968, respectively. These two USTs were removed from the ground on July 1, 1991. One 10,000-gallon gasoline UST and one 4,000-gallon gasoline UST were installed at the facility on April 9, 1968. These two USTs are currently in use.

- 1742 West Court Street, in Flint, Michigan 48503, is located between 0.25 and 0.5 mile southwest of the subject property. The facility is listed on the SHWS and BEA databases. The facility is listed on the SHWS database with facility 25000657 and as a gasoline service station. The pollutant is listed as lead and the status is listed as inactive – no actions taken to address contamination. The facility is listed on the BEA database with BEA number 99. A BEA was received by the MDEQ on March 5, 2003.
- 1638 West Third Avenue, in Flint, Michigan 48504, is located between 0.25 and 0.5 mile northwest of the subject property. The facility is listed on the BEA database with BEA number 393. A BEA was submitted by Kettering University and was received by the MDEQ on September 24, 1999.
- Sunoco Service Station is listed at 1646 West Third Street, in Flint, Michigan 48554, between 0.25 and 0.5 mile northwest of the subject property. The facility is listed on the RCRA-SQG and FINDS databases. The facility is a small quantity generator of hazardous waste with EPA identification number MID000677062. No TSDF activities or violations were on record.
- Kettering University is listed at 1700 West Third Avenue, in Flint, Michigan 48554, between 0.25 and 0.5 mile northwest of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-2310-91) of an unreported quantity of an unreported substance reported on October 31, 1991. The release was closed on May 27, 1992. The facility had a second release (Leak Number C-0581-97) of an unreported quantity of an unreported substance reported on October 29, 1997. This release was closed on July 15, 1998. One 1,500-gallon gasoline UST and one 500-gallon diesel UST were installed at the facility on April 18, 1976 and were removed from the ground on November 1, 1991. One 4,000-gallon gasoline UST and one 1,000-gallon gasoline UST were installed at the facility on April 18, 1980 and were removed from the ground on April 16, 1997 and October 16, 1997, respectively. One 560-gallon gasoline UST was installed at the facility on May 4, 1999 and is currently in use.
- Kettering University is listed at 1700 West Third Avenue, in Flint, Michigan 48554, between 0.25 and 0.5 mile northwest of the subject property. The facility is listed BROWNFIELDS database with facility ID 15896. Comments in the BEA database indicated that the facility is a vacant lot and an open LUST site with four former USTs.

- Midnight Burglar Alarm System, Inc. is listed at 1026 Ann Arbor Street, in Flint, Michigan 48503, between 0.5 and 1 mile southeast of the subject property. The facility is listed on the LUST database. The facility had a release (Leak Number C-0939-96) of an unreported quantity of an unreported substance reported on November 18, 1996. This release was closed on December 21, 1996.
- 1102 Flushing Avenue, in Flint, Michigan 48504, is located between 0.5 and 1 mile northwest of the subject property. The facility is listed on the BEA database with BEA number 79. A BEA was received by the MDEQ on November 8, 1996.
- Flint Main Company is listed at 502 Beach Street, in Flint, Michigan 48502, between 0.5 and 1 mile northeast of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-2272-91) of an unreported quantity of an unreported substance reported on October 24, 1991. The release was closed on January 10, 1996. Four 15,000-gallon USTs with unreported contents and capacities were installed at the facility on May 8, 1968 and were closed in ground on August 26, 1990. Two 10,000-gallon kerosene USTs were installed at the facility on January 1, 1991 and are currently in use.
- 522 Beach Street, in Flint, Michigan 48503, is located between 0.5 and 1 mile northeast of the subject property. The facility is listed on the BEA database with BEA number 288. A BEA was received by the MDEQ on September 2, 1998.
- Former Gasoline Station is listed at 522 Beach Street, in Flint, Michigan 48502, between 0.5 and 1 mile northeast of the subject property. The facility is listed on the LUST and UST databases. The facility had a release (Leak Number C-0766-98) of an unreported quantity of an unreported substance reported on August 19, 1998. The release is currently open. One 1,000-gallon used oil UST was installed at the facility on an unreported date and was removed from the ground on August 7, 1998.
- 408 Garland Street, in Flint, Michigan 48503, is located between 0.5 and 1 mile northeast of the subject property. The facility is listed on the US BROWNFIELDS database with an assessment date of June 30, 1999.
- 460 South Saginaw Street, in Flint, Michigan 48502, is located between 0.5 and 1 mile northeast of the subject property. The facility is listed on the BEA

database with BEA numbers 677 and 936. BEAs were received by the MDEQ on August 23, 2002, and May 24, 2005, respectively.

- 401 North Martin Luther King Avenue, in Flint, Michigan 48502 is listed on the BEA database with BEA number 805. A BEA was received by the MDEQ on February 4, 2004.
- Montgomery Ward (Former) is listed at 630 South Saginaw Street, in Flint, Michigan 48502, between 0.5 and 1 mile east-northeast of the subject property. The facility is listed on the LUST and UST databases. The facility had two releases (Leak Numbers C-1283-85 and C-4191-85) of an unreported quantities of unreported substances reported on January 1, 1985 and July 18, 1989, respectively. The releases are currently open. Five used oil USTs (unreported capacities) were installed at the facility on March 1, 1965 and were removed from the ground on April 10, 1990.
- 132 West Court Street, in Flint, Michigan, is located between 0.5 and 1 mile east of the subject property. The facility is listed on the BEA database with BEA number 863. A BEA was received by the MDEQ on September 14, 2004.
- Walker Street Mercury Spill Site is listed at 1210 Walker, in Flint, Michigan 48503, between 0.5 and 1 mile southeast of the subject property. The facility is listed on the FINDS and CERC-NFRAP databases. The facility is listed on the CERC-NFRAP database with Site ID 0508167 as a removal only site (no site assessment work was needed).
- Student Parking Lot G, Adjacent to Wilson Park is listed at 303 East Kearsley Street, in Flint, Michigan 48502, between 0.5 and 1 mile northeast of the subject property. The facility is listed on the LUST and UST databases. The facility had two releases (Leak Numbers C-0525-94 and C-0450-04) of unreported quantities of diesel and gasoline were reported on May 31, 1994 and October 26, 2004, respectively. The releases were closed on April 25, 1995 and November 8, 2005, respectively. One 200-gallon diesel UST and one 300-gallon diesel UST were installed at the facility on March 14, 1983 and January 1, 1980, respectively. These USTs were removed from the ground on May 3, 1998. One 2,000-gallon diesel UST was installed at the facility on January 1, 1988 and was removed from the ground on May 10, 2004. One 2,000-gallon diesel UST was installed at the facility on March 13, 1977 and was removed from the ground on

May 31, 1994. One 1,000-gallon diesel UST was installed at the facility on August 1, 1994 and is currently active.

- Jims Automatic Transmission Service is listed at 2102 Corunna Road, in Flint, Michigan 48503, between 0.5 and 1 mile southwest of the subject property. The facility is listed on the LUST database. The facility had a release (Leak Number C-0240-66) of an unreported quantity of an unreported substance reported on October 20, 1989. This release is currently open.
- 1005 Root Street, in Flint, Michigan 48503, is located between 0.5 and 1 mile northwest of the subject property. The facility is listed on the SHWS database with facility ID 25000070. Pollutants are listed as arsenic, lead, and tin.
- Flint Gas Light Company is listed at East and Liberty Street, in Flint, Michigan 48503, between 0.5 and 1 mile northeast of the subject property. The facility is listed on the Manufactured Gas Plants database. Consumers Power Company is listed as an alternate name.
- Oil Chem, Inc. is listed at 711 West 12th Street, in Flint, Michigan 48503, between 0.5 and 1 mile southwest of the subject property. The facility is listed on the SHWS database with facility ID 25000562. The status is listed as interim response in progress and the pollutants are listed as cadmium, lead, and TCE.

ARCADIS BBL reviewed information on these and all remaining mapped properties based on information provided in the EDR report, respective distances from the subject properties, and hydrological relationships with respect to the subject properties. Based on the review, the mapped facilities do not currently appear to present any RECs or other environmental issues relative to the subject property, other than those discussed previously in association with the Former Building 9 Area.

A total of 40 unmapped or “orphan” facilities were identified in the vicinity of the subject property in the EDR report. Based on available information, these sites do not currently appear to present any RECs or other environmental issues relative to the subject property.

2.3.2 Regulatory Agency Contacts

Regulatory agencies were contacted for information pertaining to the subject property. Regulatory correspondence is attached as Appendix B. The information obtained from the contacts is summarized in the following paragraphs.

- ARCADIS BBL searched the EPA Envirofacts Internet site for available environmental information related to the subject property utilizing the surrounding street names since no addresses currently exist for the subject property. No facilities were listed on Stevenson Street, Glenwood Avenue, Asylum Street or Kearsley Street. In addition, a search was completed for the zip code of 48504, which returned no sites pertaining to the subject property. Therefore, no additional information was obtained from the database pertaining to the subject property.
- ARCADIS BBL submitted a FOIA request to the MDEQ, Lansing District Office, to request copies of records regarding USTs, ASTs, hazardous waste storage and use, hazardous waste inspections or violations, closure reports, spills, and any other environmental non-compliance issues for Area H. The FOIA request was originally submitted utilizing parcel numbers associated with Area H, however, the MDEQ contacted ARCADIS BBL and indicated that they were unable to research available documentation utilizing parcel numbers and needed addresses to search for available information. Therefore, ARCADIS BBL submitted a subsequent FOIA request utilizing the historical addresses associated with the historical structures identified on Area H. In addition, ARCADIS BBL requested that any information pertaining to environmental liens and/or institutional controls for the former historical structures be provided. A response was received which indicated that no records are available. Based on extensive in-house documentation pertaining to previous site assessment activities and findings for the Former Building 9 Area, ARCADIS BBL did not request available documentation from the MDEQ. Available documentation at the MDEQ would largely mimic the available in-house documentation. In addition, the Former Building 9 Area was lumped under a general address of 300 North Chevrolet Avenue, which would have included several other buildings with various operations. Therefore, it would prove to be difficult to sift through the information to find documentation pertaining to the subject property.
- ARCADIS BBL submitted a FOIA request to the Genesee County Health Department, Environmental Division, to request copies of records regarding hazardous waste storage, hazardous waste inspections and violations, permits,

and any other environmental non-compliance issues for the subject property. The FOIA request was originally submitted utilizing parcel number associated with the subject property; however, Genesee County contacted ARCADIS BBL and indicated that they were unable to research available documentation utilizing the parcel number and needed an address to look up available information. Therefore, ARCADIS BBL submitted a subsequent FOIA request utilizing the historical addresses associated with the historical structures identified on the subject property. A letter was received indicating that the request for information was denied since no records pertaining to the historical addresses exist associated with the subject property.

- ARCADIS BBL representatives visited the Genesee County Register of Deeds to complete an environmental liens search for the subject property. Based on current and historical deeds reviewed for General Motors Corporation, Chevrolet and Delphi, no deeds were identified pertaining to the subject property. Therefore, it appears that no environmental liens have been recorded for the subject property. Some environmental liens were identified to have been recorded under the current and prior owners; however, the deed referenced a facility other than the subject property.
- ARCADIS BBL personnel contacted a representative of the Genesee County Historical Society in order to inquire about the historical usage of heating oil tanks at residences and buildings in the Flint area. The representative indicated that most residences utilized heating oil, which was most commonly stored in ASTs located in the basement. Alternatively, fuel oil was stored in ASTs next to the house. The representative further indicated that larger buildings typically stored heating oil in USTs.
- ARCADIS BBL representatives visited the City of Flint Assessing Department to review available field cards and additional documentation available for Area H.
 - The available field card for the subject property indicates that the historical parcel number associated with the area was 10-13-177-002, and consists of approximately 3.17 acres that is utilized as a parking lot area. The owner indicated on the field card is General Motors Corporation Chevrolet Motor Division. A former structure, referenced as Building 9, was formerly located in the northern portion of the property, which was not included in this assessment. The field card also indicated that a new fence was added in 1974; a new retaining wall was constructed and paving was refigured in 1979;

and Building 9 was demolished in 1996 with press pits being indicated within the Former Building 9 Area. The field card also indicated that the Building 9 facility did not contain a basement.

- ARCADIS BBL representative searched the City of Flint Parcel/Real Property Lookup Database to obtain available information pertaining to the subject property. The available parcel listing for the subject property indicated that the current parcel number associated with the area is 40-13-177-002. The parcel listing indicates that the area is zoned G- Heavy Manufacturing District. The legal description was also outlined in the parcel listing and the owner is listed as General Motors Corporation.
- ARCADIS BBL representatives visited the City of Flint Legal Department to complete a FOIA request for available documentation pertaining to building and demolition permits, permits for underground storage tanks or aboveground storage tanks, usage of heating oil, sewer and water connection/availability dates, and information pertaining to fires or incidents/inspections recorded for the subject property. In essence pertinent information was requested from the Building and Safety Department, Fire Department and Water and Sewer Department. Based on the possibility that additional information pertaining to the subject property may not be found utilizing the parcel number, ARCADIS BBL submitted a subsequent FOIA request for available information pertaining to addresses associated with the historical structures identified at the subject property. A response is pending.
- ARCADIS BBL contacted the City of Flint Pollution Control Department in an attempt to obtain information pertaining to the timeframe when sanitary sewer services were available in the area of the subject property. A response is pending.
- ARCADIS BBL contacted the City of Flint Water Service Center in an attempt to obtain information pertaining to the timeframe when municipal water and storm water services were available in the area of the subject property. A response is pending.

2.3.3 Water Well Survey

No groundwater wells or monitoring wells were observed by ARCADIS BBL at the subject property. Subject property personnel were unaware of the existence of such wells or if such wells were known to formerly exist at the subject property.

EDR conducted a records search of the Federal USGS, FRDS Public Water Supply (PWS) System, and State databases of wells located within approximately one mile of the subject property. One Federal FRDS PWS well exists between 0.5 and 1 mile east of the subject property. Nine State wells were identified between 0.25 and 1 mile north, north-northeast, northeast, east, and northwest of the subject property. No Federal USGS wells exist within one mile of the subject property.

Based on historical references, several former residential structures were identified on the subject property. ARCADIS BBL contacted the City of Flint Water Services Department several times in an attempt to obtain information pertaining to the timeframe when city water services would have been available in the area. However, a response was not received at the time of this report submittal. Therefore, the extent to which potential former water wells were properly abandoned or still exist is unknown, which represents a potential other environmental issue for the subject property.

2.3.4 Utility Services

No public utilities were observed to be present at the subject property. Electricity for the surrounding properties is provided by Consumers Energy, which also may provide underground electricity to the subject property based on the presence of three light poles in the northern portion of the subject property. According to the City of Flint Water Service Center, water is supplied to surrounding properties by the City of Flint municipal water service. In addition, surrounding properties are connected to the City of Flint sanitary sewer system.

3. Conclusions

The Phase I ESA performed in accordance with ASTM E 1527-05 revealed the following findings as described below:

RECs

Several RECs are recognized in connection with the subject property. They consist of the following:

- A documented release of oil to the storm water system occurred on August 19, 1991. The oil was discharged to the City of Flint storm sewer system and created a 20-foot wide sheen on the Flint River 0.5 miles downstream of the associated outfall.
- System of sumps used in connection with the exhaust valve forge presses and forge press pits that were used to recycle lubricating oils.
- Quench oil pits and system of sumps used in connection with the quench pits to manage the quench oil.
- A former chrome plating area.
- All former above ground storage tanks (ASTs), including the 3,000 gallon (gal) fire hazard quench oil dump tank and a 6,000-gal hydraulic oil tank.
- An underground storage tank (UST) excavation performed in 1985 for which no written documentation exists.
- A former polychlorinated biphenyl (PCB)-containing transformer located in the electrical substation.
- Sump and trench system associated with the grinding and forming areas, and the welding, forging, and heat treating processes. The soluble oil-trench system distributed, collected, and recycled lubricants.
- The use of hazardous and/or petroleum substances at Former Building 9 Area.

HISTORICAL RECS

Several historical RECs are recognized in connection with the subject property. A Phase I ESA was completed in 1995-1996 at the portion of Area H associated immediately with the Former Building 9 Area. This Phase I ESA is documented in the *Building 9 Phase I ESA* (BBL, June 1997a). Five PAOCs that are now considered historical RECs for the subject property were identified as described below:

- PAOC #1 – Electrical Substation: Oil was observed seeping through cracks in the south wall of an electrical substation with transformers, located immediately north of Former Building 9 Area.
- PAOC #2 – Stormwater Pump and Sump in North Storage Area: Releases of oils were observed during the October 1995 site walk through, and historically, formed the overflow of the north storage yard stormwater and wastewater collection system. The overflow of the material was documented as flowing 75 to 100 feet east along the adjacent railroad tracks, and onto the adjacent Stevenson Street.
- PAOC #3 – Gravel Area, Northwest Side of Building: Oil staining was observed on the gravel area along the northwest side of the Former Building 9 Area during the October 1995 site walk through. During the June 1996 property visit, GM personnel indicated that the area was excavated to a depth of 6 to 12 inches below ground surface, and the excavated material disposed of offsite.
- PAOC #4 – Fire Protection Trench Excavation Area: On November 26, 1996, during trench excavation activities for a fire protection system in Former Building 9 Area, an oil-like substance was observed seeping into a trench in the vicinity of Column 9-B, located in the northeast portion of the building.
- PAOC #5 – Former TCE Degreasing Unit and Sump - The source of the TCE groundwater impacts 150 feet downgradient from the Former Building 9 Area is unknown but it may have been the former degreasing unit and sump, located in the south-central portion of the Former Building 9 Area.

All of the PAOCs were investigated by BBL (June, 1997b and February 1998). The additional investigation activities included the installation of soil borings and temporary monitoring wells. Based on the results of the investigation, PAOCs #1 and #2 were no

longer considered PAOCs, and additional investigation was recommended for the remaining PAOCs #3, #4 and #5. PAOCs #3 and #5 were eliminated based on the results of the additional investigations. Additional observation to determine if light nonaqueous liquid (LNAPL) would enter a monitoring well installed at PAOC #4 was recommended before eliminating PAOC#4.

Additional soil and groundwater sampling activities were performed at the Former Building 9 Area by Soil and Materials Engineers, Inc, (SME). The sampling was performed to assess environmental conditions in anticipation of the construction and operation of the Consumers Energy of Jackson, Michigan (Consumers Energy) Asylum Substation at the Former Building 9 Area. Soil and groundwater samples were collected at PAOCs #1, #4, and #5, and at the former chrome plating area in the southwest corner of Former Building 9 Area, as well as the southeast corner of the Former Building 9 footprint. The soil and groundwater samples were analyzed for the presence of possible COCs. However, data validation results demonstrated that the data, except for the cyanide results, did not satisfy the guidelines for quantitative interpretation. Therefore, the affected data was used only for qualitative interpretive purposes only. Although concentrations of COCs did exceed the Michigan regulatory cleanup criteria at individual sampling locations, a statistical analysis was completed to determine if the positive detections were significant. None of the COCs detected exceeded the Michigan regulatory cleanup criteria after the statistical procedures were applied, except for barium. No additional investigation was warranted based on the results of the investigation.

C. ADDITIONAL FINDINGS

Additional findings are as stated below:

- The subject property were both historically part of the GMC-Chevrolet Flint Manufacturing facility, which as explained in Section 2.3.1, was subject of a RCRA Facility Assessment, and was assigned a medium corrective action priority by USEPA.
- Based on a review of historical sources, several former residential structures were identified on the subject property, which may have utilized an on-site septic system and associated drainage field. ARCADIS BBL contacted the City of Flint Water Pollution Control Department several times in an attempt to obtain information pertaining to the timeframe when city sewer services would have been available in the area. However, a response was not received at the time of this report

submittal. Therefore, the potential exists for abandoned drainage structures and residual waste associated with former on-site septic systems to be present at the subject properties, which represents a potential site development issue with regards to the subject property.

- ARCADIS BBL contacted the City of Flint Water Services Department several times in an attempt to obtain information pertaining to the timeframe when city water services would have been available in the area. However, a response was not received at the time of this report submittal. Therefore, the extent to which potential former water wells were properly abandoned or still exist is unknown, which represents a potential other environmental issue for the subject property.
- The availability of information or interviews with knowledgeable persons regarding the several historical residential structures identified on the available Sanborn Maps® for the subject property pertaining to construction, demolition and/or heating sources of the historical residential structures represents a data gap.
- ARCADIS BBL did not seek and obtain the Chain of Title research documentation from GM Real Estate prior to the completion of this report. Therefore, additional information pertaining to the past ownership of the subject property is not included and represents a data gap.
- Based on limited knowledge, personnel associated with the subject property were unable to provide ARCADIS BBL with additional information pertaining to historical uses, chemical use/storage/disposal, former or current USTs/ASTs or other pertinent information related to the subject property which represents a data gap.
- Based on extensive in-house documentation pertaining to previous site assessment activities and findings for the Former Building 9 Area, ARCADIS BBL did not request available documentation from the MDEQ. Available documentation at the MDEQ would largely mimic the available in-house documentation. In addition, the Former Building 9 Area was lumped under a general address of 300 North Chevrolet Avenue, which would have included several other buildings with various operations.

Information requested from the City of Flint Building and Safety Department, Fire Department, Water Pollution Control Department and Water Service Department was not received prior to the submittal of this report; therefore, additional information that may be available could not be included in this report which represents a data gap.

4. Qualifications and Limitations

This Report was prepared pursuant to the Master Services Agreement (MSA) between ENCORE Corporate Remediation Company and ARCADIS BBL, dated January 2, 2002. All uses of this report are subject to, and deemed acceptance of, the conditions and restrictions contained in the referenced MSA. The observations and conclusions described in this report are based solely on the scope of services provided pursuant to the MSA. ARCADIS BBL has not performed any additional observations, investigations, studies, or other testing not specified in the MSA. ARCADIS BBL shall not be liable for the existence of any condition the discovery of which would have required the performance of services not authorized under the MSA.

This report is prepared for the exclusive use of ENCORE and GM. Use of this report by any person or entity other than General Motors Corporation shall be at such other person's or entity's sole risk, and shall be without legal exposure or liability to ARCADIS BBL.

This report reflects Site conditions observed and described by records available to ARCADIS BBL as of the date of the report. The passage of time may result in significant changes in site conditions or technology which could alter the findings and/or recommendations of the report. Accordingly, ARCADIS BBL shall bear no liability for deviations from observed conditions or available records after the date of the report.

ARCADIS BBL shall not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld or not fully disclosed at the time the assessment was conducted.

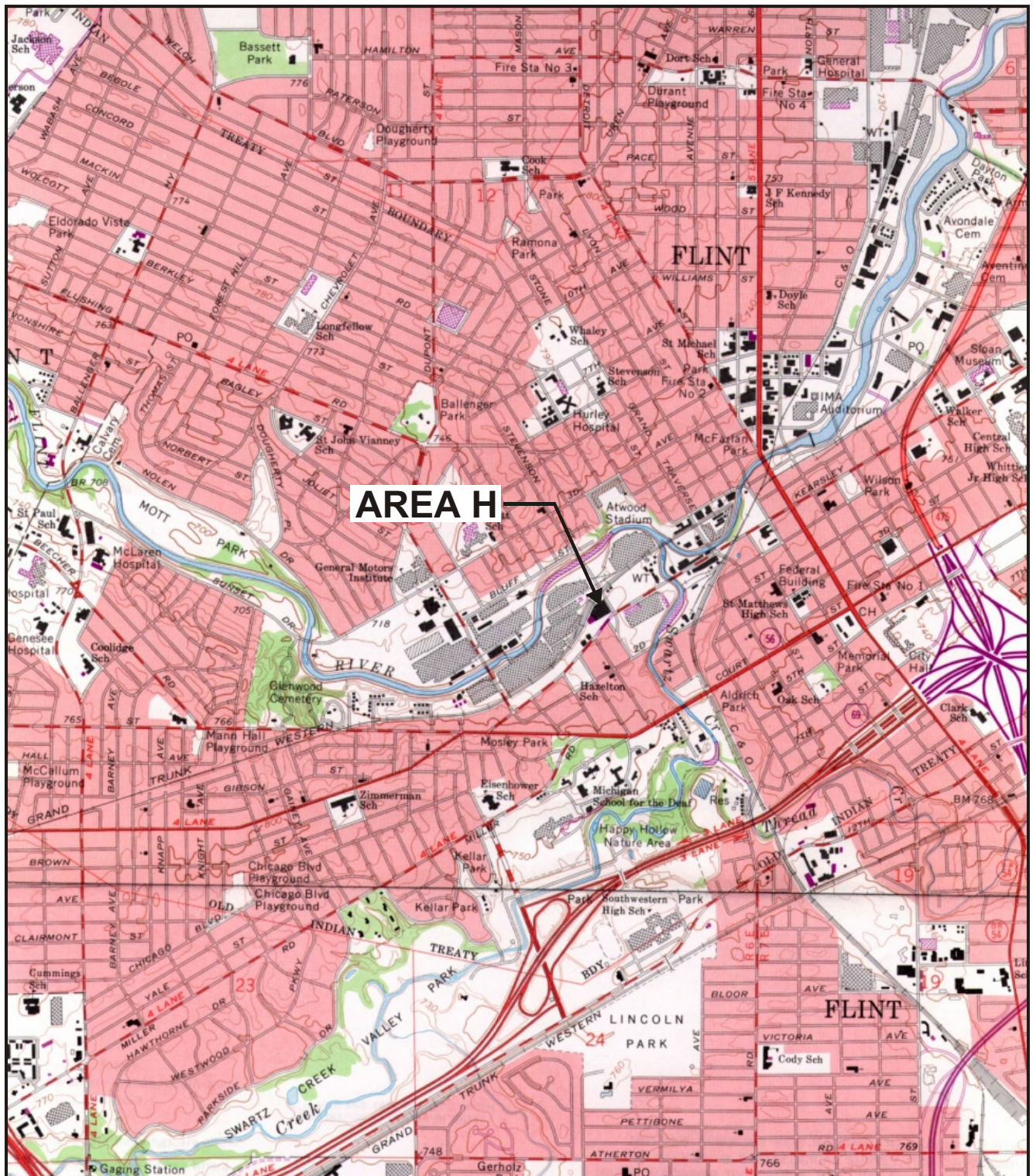
With the exception of the receipt of only select FOIA request responses, all information documented in and provided with this report reflects the results of data collection and evaluations performed no later than January 30, 2007.

5. References

1. Blasland, Bouck & Lee, Inc. (BBL), June 1997a. *Phase I Environmental Site Assessment Building 9 Delphi-Flint West.*
2. BBL, June 1997b. *Phase II Environmental Site Investigation Report, Building 9 Delphi-Flint West Facility.*
3. BBL, February 1998. *Supplemental Phase II Environmental Site Investigation Report, Building 9 Delphi-Flint West Facility.*
4. BBL, September 1998. *Baseline Environmental Site Assessment, Former Building 9 (Asylum Substation), Delphi-Flint West Facility.*
5. Ecology and Environment, Inc., April 1, 1991. *Preliminary Review/Visual Site Inspection and Preliminary Assessment Report for GMC-Chevrolet Flint Manufacturing, Flint, Michigan, U. S. EPA ID: MID 005356654, SS ID: None, TDD ID: F05-8909-010, PAN: FM1144RA.*
6. Electronic Database search conducted by Environmental Data Resources, Inc. (EDR), dated December 12, 2006 (refer to Appendix D).
7. Sanborn® Fire Insurance Maps provided by EDR (1886, 1892, 1898, 1902, 1909, 1914, 1928, 1950 and 1970; refer to Appendix E).
8. USGS 15-Minute and 7.5-Minute Topographic Maps, Flint and Flint North Quadrangles (1922, 1969 and 1975; refer to Appendix E).
9. Historic Aerial Photographs obtained from EDR and Google Earth (1941, 1950, 1964, 1972, 1982, 1992, 1997, and recent aerial available from Google Earth; refer to Appendix E).

Appendix A

Figures



REFERENCE: Base Map Source: USGS 7.5 Min. Topo. Quads., Flint South, Michigan, 1969, photorevised 1975.

2000' 0 2000'

Approximate Scale: 1" = 2000'



Area Enlargement

GENERAL MOTORS CORPORATION
FLINT, MICHIGAN
FLINT WEST PARKING LOTS - AREA H

SITE LOCATION MAP

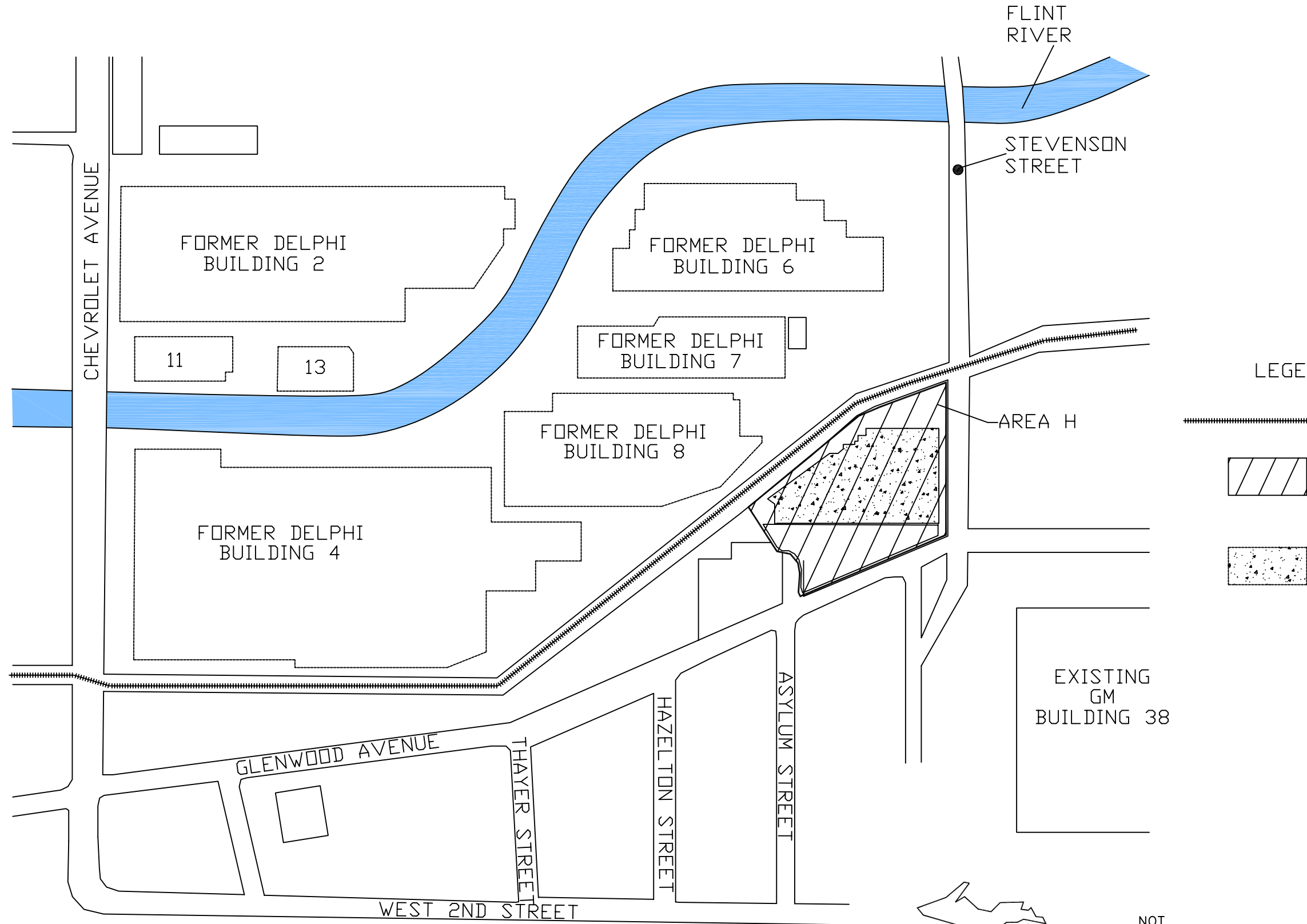
 **ARCADIS** BBL
Infrastructure, environment, facilities

FIGURE
1



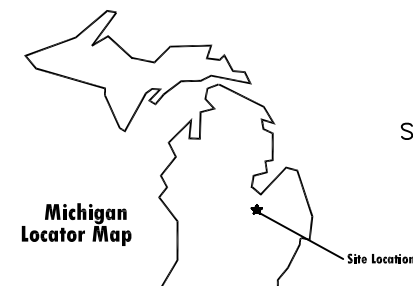
FIGURE
2

LEX-85-RER LAYER: ON=*, OFF=*REF*
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SAVED: 8/13/2007 9:00 AM LAYOUT: Layout1
PAGESETUP: PDF-MICHIGAN PENTABLE: PLT\FULL.CTB PRINTED: 9/4/2007 1:34 PM BY: RER

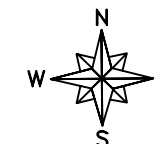


LEGEND

- RAILROAD TRACKS
- SUBJECT PROPERTIES (AREA)
- APPROXIMATE EXTENT OF FORMER DELPHI/GM BUILDINGS



NOT TO SCALE



FLINT WEST PARKING LOTS — AREA H
GENERAL MOTORS CORPORATION
FLINT, MICHIGAN

SURROUNDING PROPERTIES MAP



FIGURE
3A

Appendix B

Contacts and Correspondence

**General Motors Corporation
Parking Lot Area – H
Flint, MI
2/23/07**

Contact List

NAME	FIRM / ADDRESS	TITLE	PHONE / FAX / INTERNET	E-MAIL
Kurt Blizzard	WFG Remediation Team General Motors Corporation 70 Building Mail Code 489-066-055 920 Townsend Lansing, MI 48921	Client/Project Manager	517.885.1155 phone	kurt.blizzard @gm.com
Internet	EPA EnviroFacts Internet Site	---	http://www.epa.gov/ enviro/	---
Representative	Michigan Department of Environmental Quality (MDEQ), Lansing District Office 525 West Allegan (Constitution Hall, 4 th Floor, North) P.O. Box 30242 Lansing, MI	FOIA Officer	517.335.6010 phone 517.241.3571 fax	---
Gene Wood	Genesee County Health Department, Environmental Division 630 South Saginaw Street Flint, MI 48052	FOIA Officer	517.257.3125 fax	---
Representative	Genesee County Register of Deeds 1101 Beach Street Flint, MI 48502	Administrative Assistant	810.257.3060 phone 810.768.7965 fax	---
David White	Genesee County Historical Society 316 Water Street Flint, MI 48502	President	810.237.5177 phone	dwhite@kett ering.edu
Representative	City of Flint Assessing Department 1101 South Saginaw Street Flint, MI 48502	Administrative Assistant	810.766.7255 phone 810.341.5081 fax	---
Internet	City of Flint Parcel/Real Property Lookup	---	http://taxes.cityofflint .com/search.asp	---
Representative	City of Flint Legal Department (Building and Safety, Fire Department and Water and Sewer Department) 1101 South Saginaw Street Flint, MI 48502	FOIA Coordinator	810.766.7146 phone 810.766.8694 fax	---
Representative	City of Flint Water Pollution Control Department G-4256 Beecher Road Flint, MI 48502	Administrative Assistant	810.766.7210 phone 810.230.3154 fax	---
Representative	City of Flint Water Service Center 3310 East Court Street Flint, MI 48502	Administrative Assistant	810.766.7202 phone 810.742.6283 fax	---

Documentation of Communication

Date 1/10/07
Time 2:00 PM EDT
Type of Communication In Person

ARCADIS BBL Representative	Derek Kaiding
Source of Communication (Organization)	WFG Remediation Team General Motors Corporation 70 Building Mail Code 489-066-055 920 Townsend Lansing, MI 48921
Source / Organization Contact	Kurt Blizzard - Client/Project Manager
Contact #	Phone: (517) 885-1155
Email	E-Mail: kurt.blizzard@gm.com

Specific Subject Matter:

ACRADIS BBL personnel interviewed Mr. Kurt Blizzard in an attempt to obtain historical information pertaining to the subject properties. Mr. Blizzard has been the General Motors Corporation (GM) Remediation Team Project Manager for the nearby former GM/Delphi E – Flint West Building 2 Site (located at the corner of Bluff Street and North Chevrolet Avenue) for only the past two years. Based on Mr. Blizzard's limited knowledge relating to the historical usage of the subject properties and limited involvement with the properties, he did not have additional information to provide related to the subject properties. Mr. Blizzard stated that he was unaware of the historical operations/uses of the subject properties.

Documentation of Communication

Date 01/10/07
Time 4:00 PM EDT
Type of Communication Internet

ARCADIS BBL Representative
Source of Communication (Organization) Tiffany Linder
EPA Envirofacts Database
Source / Organization Internet
Contact
Contact # <http://www.epa.gov/enviro/>
Email

Specific Subject Matter:

ARCADIS BBL searched the EPA Envirofacts Internet site for available environmental information related to the subject property utilizing the surrounding street names since no addresses currently exist for the subject property. No facilities were listed on Stevenson Street, Glenwood Avenue, Asylum Street or Kearsley Street. In addition, a search was completed for the zip code of 48504, which returned no sites pertaining to the subject property. Therefore, no additional information was obtained from the database pertaining to the subject property.

Documentation of Communication

Date 12/27/06
Time 2:00 PM EDT
Type of Communication Fax

ARCADIS BBL Representative	Joseph Kotwicki
Source of Communication (Organization)	Michigan Department of Environmental Quality (MDEQ), Lansing District Office 525 West Allegan (Constitution Hall, 4 th Floor, North) P.O. Box 30242 Lansing, MI
Source / Organization Contact	FOIA Officer
Contact #	Phone: (517) 335-6010
Email	Fax: (517) 241-3571

Specific Subject Matter:

ARCADIS BBL submitted a FOIA request to the MDEQ, Lansing District Office, to request copies of records regarding underground storage tanks (USTs), aboveground storage tanks (ASTs), hazardous waste storage and use, hazardous waste inspections or violations, closure reports, spills, and any other environmental non-compliance issues for Area H. The FOIA request was originally submitted utilizing parcel number associated with the subject property, however, the MDEQ contacted ARCADIS BBL and indicated that they were unable to research available documentation utilizing parcel number and needed an address to look up available information. Therefore, ARCADIS BBL submitted a subsequent FOIA request utilizing the historical addresses associated with the historical structures identified on Area H. In addition, ARCADIS BBL requested that any information pertaining to environmental liens and/or institutional controls for the former historical structures be provided. A response indicated that no files were on record for the site.



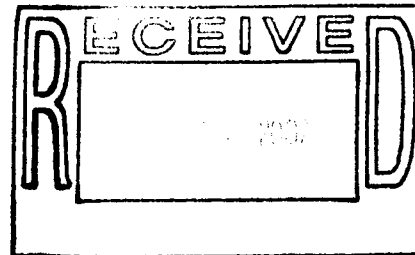
STATE OF MICHIGAN
DEPARTMENT OF ENVIRONMENTAL QUALITY
LANSING DISTRICT OFFICE



JENNIFER M. GRANHOLM
GOVERNOR

STEVEN E. CHESTER
DIRECTOR

January 11, 2007



Mr. Joseph Kotwicki
Arcadis, BBL
10559 Citation Drive, Suite 100
Brighton, Michigan 48116

Dear Mr. Kotwicki:

SUBJECT: Request for Disclosure of Official Files from Waste and Hazardous Materials Division,
Lansing District Office.

This written notice is issued in response to your January 9, 2007, request for information under the Freedom of Information Act (FOIA), MCL 15.231 *et seq.*, which was received by this office on January 9, 2007.

The purpose of the FOIA is to provide the public with access to existing, nonexempt public records of public bodies. Your request dated January 9, 2007, to examine or receive a copy of the following documents is denied.

Description of documents being denied:

- 511 & 517 Asylum Street, Flint, Michigan, Genesee County
- 500 & 518 Fox Street, Flint, Michigan, Genesee County
- 521, 519, 515, 513, 1111, 1103, 1123, 1109, 1115, 1127, 1625, 1621, 1615, 1607, 1605 Glenwood Avenue, Flint, Michigan, Genesee County
- 509 ½, 510 & 512 Hazelton Street, Flint, Michigan, Genesee County
- 509 & 517 Thayer Street, Flint, Michigan, Genesee County
- 412, 418 & 425 South Garden Street, Flint, Michigan, Genesee County
- 1210, 1102, 1104, 1108, 1110, 1114, 1118 & 1122 West Kearsley Street, Flint, Michigan, Genesee County
- 312, 316, 320, 324 & 330 South Stevenson Street, Flint, Michigan, Genesee County
- 1120, 1220, 1214 & 1208 Bluff Street, Flint, Michigan, Genesee County
- 401 Frost Street, Flint, Michigan, Genesee County
- 400 Bangs Street, Flint, Michigan, Genesee County
- 401, 413, 427, 402, 410, 478 & 476 North Stevenson Street, Flint, Michigan, Genesee County

Reason for denial: To the best of this public body's knowledge, information, and belief, the public record does not exist under the name given by the requester, or by another name reasonably known to the public body.

Authority for denial: Public Act No. 442 of 1976, as amended, Section 3(1). Under section 10 of the FOIA, you may do either of the following:

1) Appeal this decision in writing to the Director of the Michigan Department of Environmental Quality at P.O. Box 30473, Lansing, Michigan 48909-7917. The writing must specifically state the word "appeal," and must identify the reason or reasons you believe the denial should be reversed. The head of the department, or his designee, must respond to your appeal within 10 business days after its receipt. Under unusual circumstances, the time for response to your appeal may be extended by 10 business days.

2) File an action in circuit court within 180 days after the date of the final determination to deny the request. If you prevail in such an action, the court is to award reasonable attorney fees, costs, and disbursements. Further, if the court finds the denial to be arbitrary and capricious, you may receive punitive damages in the amount of \$500.00.

Sincerely,

A handwritten signature in black ink, appearing to read "Jo Anne Rennaker". The signature is fluid and cursive, with the first name "Jo" and last name "Rennaker" clearly distinguishable.

Jo Anne Rennaker, FOIA Liaison
Waste and Hazardous Materials Division
Lansing District Office
517-335-6139



 an ARCADIS company

Transmitted Via Facsimile

December 27, 2006

FOIA Officer
MDEQ Lansing District Office – Remediation & Redevelopment Division
525 West Allegan (Constitution Hall, 4th Floor, North)
P.O. Box 30242
Lansing, Michigan
Phone: (517) 335-6010
Fax: (517) 241-3571

Re: **Freedom of Information Act Request (Lansing District Office)**
General Motors (other owner names may include Delphi & Chevrolet Manufacturing)
Parcel ID Numbers:

40-13-304-019	40-13-177-002
40-13-253-011	40-13-332-004
40-13-128-028	40-13-329-023
40-13-129-019	40-13-327-007
40-13-130-045	

City of Flint, County of Genesee, Michigan

Dear FOIA Officer:

The purpose of this letter is to request that copies of all available information regarding USTs, ASTs, hazardous waste storage, hazardous waste inspections and violations, permits, and environmental non-compliance issues be sent regarding the above-referenced Sites.

Please contact me at (810) 229-8823, extension 148 with any questions or upon accessing information relevant to this request. Please call if copying charges exceed \$50.

Sincerely,

BLASLAND, BOUCK & LEE, INC.



Joseph Kotwicki

Privileged and Confidential Prepared at the Request of Counsel

Documentation of Communication

Date 12/27/06
Time 2:30 PM EDT
Type of Communication Fax

ARCADIS BBL Representative	Joseph Kotwicki
Source of Communication (Organization)	Genesee County Health Department, Environmental Division 630 South Saginaw Street Flint, MI 48052
Source / Organization Contact	FOIA Officer
Contact #	Fax: (517) 257-3125
Email	

Specific Subject Matter:

ARCADIS BBL submitted a FOIA request to the Genesee County Health Department, Environmental Division, to request copies of records regarding hazardous waste storage, hazardous waste inspections and violations, permits, and any other environmental non-compliance issues for Area H. The FOIA request was originally submitted utilizing parcel number associated with the subject property, however, Genesee County contacted ARCADIS BBL and indicated that they were unable to research available documentation utilizing the parcel number and needed an address to look up available information. Therefore, ARCADIS BBL submitted a subsequent FOIA request utilizing the historical addresses associated with the historical structures identified on Area H. A letter was received indicating that the request for information was denied since no records pertaining to the historical addresses associated with Area H exist.



 an ARCADIS company

Transmitted Via Facsimile

December 27, 2006

Mr. Gene Wood – FOIA Officer
Genesee County Health Department, Environmental Division
630 South Saginaw Street
Flint, Michigan 48052
Fax: (810) 257-3125

**Re: Freedom of Information Act Request (Lansing District Office)
General Motors (other owner names may include Delphi & Chevrolet Manufacturing)
Parcel ID Numbers:**

40-13-304-019	40-13-177-002
40-13-253-011	40-13-332-004
40-13-128-028	40-13-329-023
40-13-129-019	40-13-327-007
40-13-130-045	

City of Flint, County of Genesee, Michigan


Dear FOIA Officer:

The purpose of this letter is to request that copies of all available information regarding hazardous waste storage, hazardous waste inspections and violations, permits, and environmental non-compliance issues be sent regarding the above-referenced Sites.

Please contact me at (810) 229-8823, extension 148 with any questions or upon accessing information relevant to this request. Please call if copying charges exceed \$25.

Sincerely,

BLASLAND, BOUCK & LEE, INC.



Joseph Kotwicki

Privileged and Confidential Prepared at the Request of Counsel



Board & Criminal Justice Coordinator
Genesee County Board of Commissioners

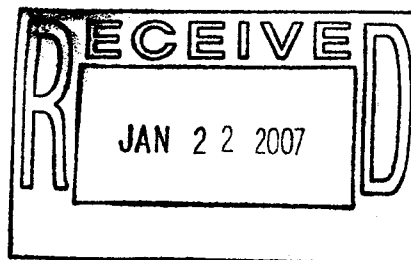
1101 BEACH STREET, ROOM 312
FLINT, MICHIGAN 48502

TELEPHONE: (810) 257-3020
FAX: (810) 257-3008

JON CARE
COORDINATOR

January 19, 2007

Joseph Kotwicki
ARCADIS BBL
10559 Citation Drive Suite 100
Brighton, Michigan 48115



Dear Mr. Kotwicki:

This is response to your request sent on January 9, 2007 to the Genesee County Health Department, Environmental Division and received by me on January 11, 2007 for copies of public records under the Michigan Freedom of Information Act (the Act).

I understand your request to be for information regarding sites in the City of Flint; South Garden Street: 412, 418, 425; Asylum Street: 511 & 517; Fox Street: 500 & 518; Glenwood Avenue: 521, 519, 515, 513, 1111, 1103, 1123, 1109, 1115, 1127, 1625, 1621, 1615, 1607, 1605; Hazelton Street: 509 ½, 510, 512; Thayer Street: 509 & 517; West Kearsley Street: 1210, 1102, 1104, 1108, 1110, 1114, 1118, 1122; South Stevenson Street: 312, 316, 320, 324, 330; 1220 Bluff Street, 1214 Bluff Street, 1208 Bluff Street, 1120 Bluff Street; 401 Frost Street; 400 Bangs Street; 401 North Stevenson Street, 413 North Stevenson Street, 427 North Stevenson Street, 402 North Stevenson Street, 410 North Stevenson Street, 478 North Stevenson Street & 476 North Stevenson Street. In responding to your request, I worked closely with and relied on information from Mr. Gene Wood of the Genesee County Health Department, Environmental Division.

Your request is denied for the reason that no records exist in the files of the Genesee County Health Department, Environmental Division, by that name or any other name reasonably know to this public body, which non-existence, based upon information received from Mr. Wood, I hereby certify.

To the extent that this letter denies your request, you are advised that you have the right to submit a written appeal to the Chairperson of the Genesee County Board of Commissioners, that specifically states the word "appeal" and which identifies the reason or reasons for reversal of the disclosure denial, and obtain attorney's fees and damages to the extent provided in, and subject to the conditions of, Section 10 of the Freedom of Information Act. A copy of Section 10 is attached and is incorporated in this letter by reference.

Sincerely,

Jon Care, Genesee County
Freedom of Information Act Coordinator

Sec. 10. (1) If a public body makes a final determination to deny all or a portion of a request, the requesting person may do 1 of the following at his or her option:

(a) Submit to the head of the public body a written appeal that specifically states the word "appeal" and identifies the reason or reasons for reversal of the denial.

(b) Commence an action in the circuit court to compel the public body's disclosure of the public records within 180 days after a public body's final determination to deny a request.

(2) Within 10 days after receiving a written appeal pursuant to subsection (1)(a), the head of a public body shall do 1 of the following:

(a) Reverse the disclosure denial.

(b) Issue a written notice to the requesting person upholding the disclosure denial.

(c) Reverse the disclosure denial in part and issue a written notice to the requesting person upholding the disclosure denial in part.

(d) Under unusual circumstances, issue a notice extending for not more than 10 business days the period during which the head of the public body shall respond to the written appeal. The head of a public body shall not issue more than 1 notice of extension for a particular written appeal.

(3) A board or commission that is the head of a public body is not considered to have received a written appeal under subsection (2) until the first regularly scheduled meeting of that board or commission following submission of the written appeal under subsection (1)(a). If the head of the public body fails to respond to a written appeal pursuant to subsection (2), or if the head of the public body upholds all or a portion of the disclosure denial that is the subject of the written appeal, the requesting person may seek judicial review of the nondisclosure by commencing an action in circuit court under subsection (1)(b).

(4) In an action commenced under subsection (1)(b), a court that determines a public record is not exempt from disclosure shall order the public body to cease withholding or to produce all or a portion of a public record wrongfully withheld, regardless of the location of the public record. The circuit court for the county in which the complainant resides or has his or her principal place of business, or the circuit court for the county in which the public record or an office of the public body is located has venue over the action. The court shall determine the matter de novo and the burden is on the public body to sustain its denial. The court, on its own motion, may view the public record in controversy in private before reaching a decision. Failure to comply with an order of the court may be punished as contempt of court.

(5) An action commenced under this section and an appeal from an action commenced under this section shall be assigned for hearing and trial or for argument at the earliest practicable date and expedited in every way.

(6) If a person asserting the right to inspect, copy, or receive a copy of all or a portion of a public record prevails in an action commenced under this section, the court shall award reasonable attorneys' fees, costs, and disbursements. If the person or public body prevails in part, the court may, in its discretion, award all or an appropriate portion of reasonable attorneys' fees, costs, and disbursements. The award shall be assessed against the public body liable for damages under subsection (7).

(7) If the circuit court determines in an action commenced under this section that the public body has arbitrarily and capriciously violated this act by refusal or delay in disclosing or providing copies of a public record, the court shall award, in addition to any actual or compensatory damages, punitive damages in the amount of \$500.00 to the person seeking the right to inspect or receive a copy of a public record. The damages shall not be assessed against an individual, but shall be assessed against the next succeeding public body that is not an individual and that kept or maintained the public record as part of its public function.

Documentation of Communication

Date 12/27/06
Time 11:00 AM EDT
Type of Communication Visited Office

ARCADIS BBL Representative	Tiffany Linder and Susannah Duly
Source of Communication (Organization)	Genesee County Register of Deeds 1101 Beach Street Flint, MI 48502
Source / Organization Contact	Representative
Contact #	Phone: (810) 257-3060
Email	Fax: (810) 768-7965

Specific Subject Matter:

ARCADIS BBL representatives visited the Genesee County Register of Deeds to complete an environmental liens search for Area H. Based on current and historical deeds reviewed for General Motors Corporation, Chevrolet and Delphi, no deeds pertaining to Area H were identified. Therefore, it appears that no environmental liens have been recorded for Area H. Some environmental liens were identified to have been recorded under the current and prior owners, however, the deed referenced a facility other than Area H.

Documentation of Communication

Date 1/16/07
Time 2:00 PM EDT
Type of Communication E-Mail

ARCADIS BBL Representative	Joe Kotwicki
Source of Communication (Organization)	Genesee County Historical Society 316 Water Street Flint, MI 48502
Source / Organization Contact	David White - President
Contact #	Phone: (810) 237-5177
Email	E-Mail: dwhite@kettering.edu

Specific Subject Matter:

ACRADIS BBL personnel contacted a representative of the Genesee County Historical Society in order to inquire about the historical usage of heating oil tanks at residences and buildings in the Flint area. The representative indicated that most residences utilized heating oil, which was most commonly stored in aboveground storage tanks (ASTs) located in the basement. The representative further indicated that larger buildings typically stored heating oil in underground storage tanks (USTs).

Documentation of Communication

Date 12/27/06
Time 10:00 AM EDT
Type of Communication Visited Office

ARCADIS BBL Representative	Tiffany Linder and Susannah Duly
Source of Communication (Organization)	City of Flint Assessing Department 1101 South Saginaw Street Flint, MI 48502
Source / Organization Contact	Administrative Assistant
Contact #	Phone: (810) 766-7255
Email	Fax: (810) 341-5081

Specific Subject Matter:

ARCADIS BBL representatives visited the City of Flint Assessing Department to review available field cards and additional documentation available for Area H.

The available field card for Area H indicates that the historical parcel number associated with Area H was 10-13-177-002, consists of approximately 3.17 acres and is utilized as a parking lot. It is important to note that the Area H included in the assessment does not include all 3.17 acres, only the southern portion of the 3.17 acres, which would correlate approximately 0.50 acre. The owner indicated on the field card is General Motors Corporation Chevrolet Motor Division. A former structure, referenced as Building 9, was formerly located in the northern portion of the property, which was not included in this assessment. The field card also indicated that a new fence was added in 1974; a new retaining wall was constructed and paving was refigured in 1979; and Building 9 was demolished in 1966 with press pits being indicated within Building 9. The field card also indicated that Building 9 did not contain a basement.

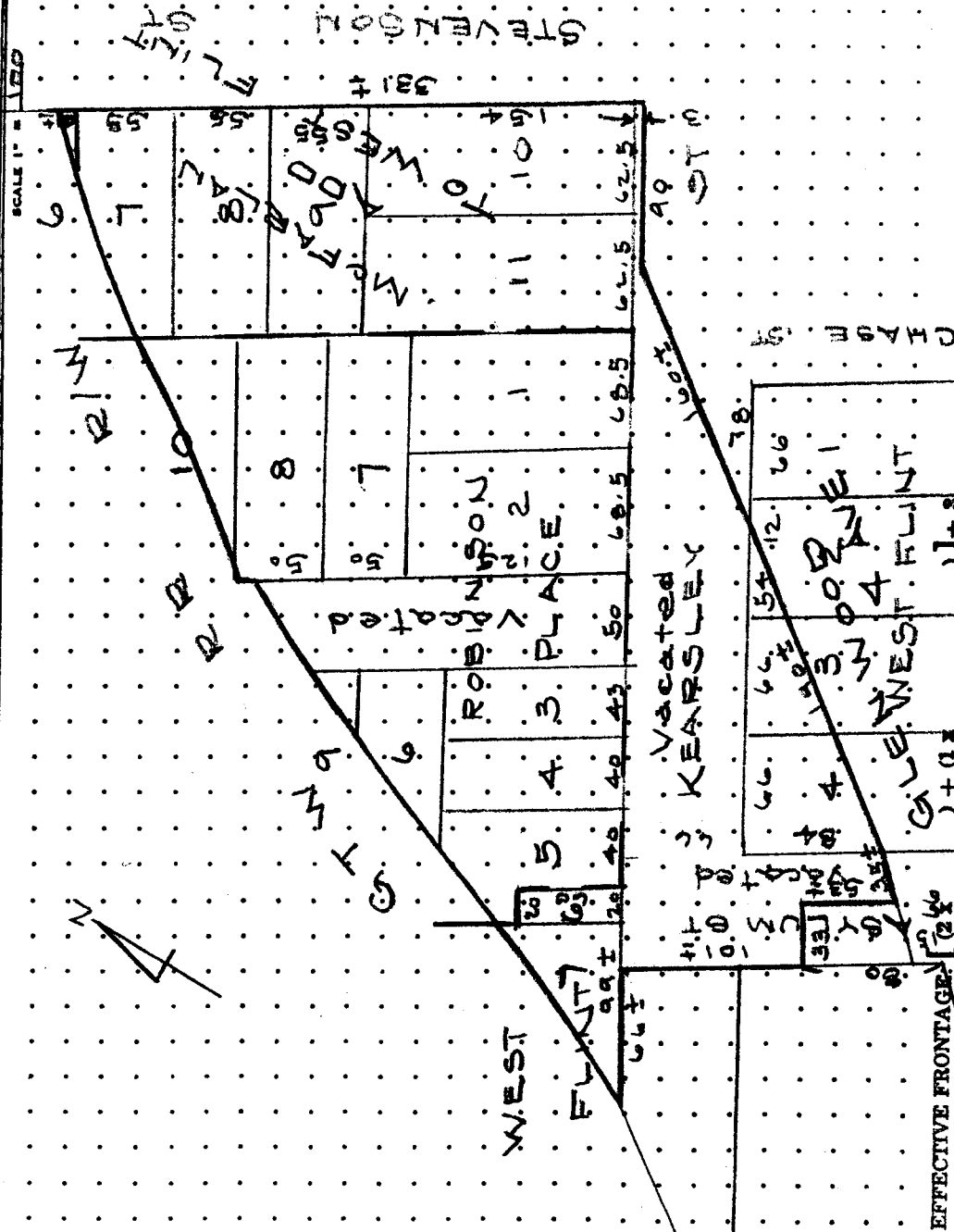
DATE	DESCRIPTION	AMOUNT	BALANCE
1/1/20	Opening Balance		100.00
1/15/20	Payment Received	50.00	150.00
2/1/20	Payment Received	75.00	225.00
2/15/20	Payment Received	25.00	250.00
3/1/20	Payment Received	100.00	350.00
3/15/20	Payment Received	50.00	400.00
4/1/20	Payment Received	75.00	475.00
4/15/20	Payment Received	25.00	500.00
5/1/20	Payment Received	100.00	600.00
5/15/20	Payment Received	50.00	650.00
6/1/20	Payment Received	75.00	725.00
6/15/20	Payment Received	25.00	750.00
7/1/20	Payment Received	100.00	850.00
7/15/20	Payment Received	50.00	900.00
8/1/20	Payment Received	75.00	975.00
8/15/20	Payment Received	25.00	1000.00
9/1/20	Payment Received	100.00	1100.00
9/15/20	Payment Received	50.00	1150.00
10/1/20	Payment Received	75.00	1225.00
10/15/20	Payment Received	25.00	1250.00
11/1/20	Payment Received	100.00	1350.00
11/15/20	Payment Received	50.00	1400.00
12/1/20	Payment Received	75.00	1475.00
12/15/20	Payment Received	25.00	1500.00
1/1/21	Opening Balance		1500.00

LAND SKETCH

Lots 1, 2, 3, 4, 7, 8 and that part of Lots 5, 6, 9 & 10, Plat of Robinson Place lying SELY of the Sly R/W line of Grand Trunk Western Railroad; Also a contiguous part of Blk 3, Plat of McFarlan's Addition to West Flint desc as: Lots 8, 9, 10, 11 and that part of Lots 6 & 7 lying SELY of sd Sly R/W line; Also a contiguous part of Blk 1, Plat of West Flint desc as: the Wly 20 ft of the Sly 60 ft of Lot 6 as originally platted & that part of Lot 7 as originally platted lying Sly of the sd Sly R/W line; Also a contiguous part of Lots 2, 3 & 4, Blk 4 of sd Plat & part of vacated Asylum St. & vacated Kearsley St. desc as foll: Beg at the SELY cor of Lot 10 of sd Blk 3; th SELY alg Ely line of sd Lot extended SELY 3.0 ft; th SWly = to Sly line of sd Lot & its SWly extension, 90 ft; th SWly to a pt on Sly line of Kearsley

(OVER)

DEPTH	% OF ACT. UNIT	ACTUAL UNIT	DEPTH VALUE	EFFECTIVE FRONTAGE	TOTALS
C. I. SIDE ST. DEPTH	% OF C. I. UNIT	SIDE ST. UNIT	C. I. VALUE PER FT.	SIDE B. FRONTAGE	
138.224	PT. 0.57				74647
PER SQ. FT. =					



74/027

Documentation of Communication

Date 12/29/06
Time 9:00 AM EDT
Type of Communication Internet

ARCADIS BBL Representative
Source of Communication (Organization) Tiffany Linder
City of Flint Parcel/Real Property Lookup Database
Source / Organization Internet
Contact
Contact # <http://taxes.cityofflint.com/search.asp>
Email

Specific Subject Matter:

ARCADIS BBL representative searched the City of Flint Parcel/Real Property Lookup Database to obtain available information pertaining to Area H.

The available parcel listing for Area H indicated that the current parcel number associated with Area H is 40-13-177-002. The parcel listing indicates that Area H is zoned G- Heavy Manufacturing District. The legal description was also outlined in the parcel listing and the owner is listed as General Motors Corporation.



Executive Orders and Home estate links in departments is website are provided for convenience. While we are continually updating the information contained on this site, the City of Flint does not warrant that the information found via these web pages is accurate, complete, timely, authoritative or factual.

Find Your Property Tax Info

Zoning Classification Info

Check if your property is in a Renaissance Zone

What is a Renaissance Zone?

Parcel #: 40-13-177-002(4)
Address: 300 N CHEVROLET AVE

Classification: IV
Zoning District: G
Lot Size: Front: 0 Depth: 0

Owner: GENERAL MOTORS CORP
PO BOX 9024
DETROIT, MI 48202

[Legal Description](#)
[Sale Information](#)
[Ward/Precinct Information](#)
[Property In Renaissance Zone](#)

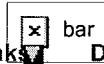
	<u>Current Year (2006)</u>	<u>Previous Year (2005)</u>
State Equalized Value	47600	47600
Taxable Value	47600	47600
Homestead%	0	0

	<u>2006 Taxes</u>	
	<u>Summer Taxes</u>	<u>Winter Taxes</u>
Original Tax	\$33.16	\$0.00
Penalty	\$0.00	\$0.00
Water Lien	\$0.00	
Special	\$0.00	
Paid To Date	\$22.10	\$0.00
Balance Due	\$11.06	\$0.00

EFFECTIVE MARCH 1, 2006 ALL REAL PROPERTY TAXES FOR 2005 AND PRIOR YEARS ARE PAYABLE AT THE GENESEE COUNTY TREASURER'S OFFICE, 1101 BEACH STREET

Designed and Developed by City of Flint, IS Department - Last Updated: 12/20/2006

Privileged and Confidential Prepared at the Request of Counsel

[Executive Orders](#)[Home](#)[Quick Links](#)[Departments](#)[Calendar](#)[About](#)[Contact Us](#)

**Find Your
Property Tax Info**

Parcel Number: 4013177002**Address:** 300 N CHEVROLET AVE

**Zoning
Classification
Info**

**Check if your
property is in a
Renaissance
Zone**

**What is a
Renaissance
Zone?**



**Printer-
Friendly
Version**

Legal Description:

LOTS 1, 2, 3, 4, 7, 8 AND THAT PART OF LOTS 5, 6, 9 & 10, PLAT OF ROBINSON PLACE LYING SELY OF THE SLY R/W LINE OF GRAND TRUNK WESTERN RAILROAD; ALSO A CONTIGIOUS PART OF BLK 3, PLAT OF MCFARLAN'S ADDITION TO WEST FLINT DESC AS: LOTS 8, 9, 10, 11 AND THAT PART OF LOTS 6 & 7 LYING SELY OF SD SLY R/W LINE; ALSO A CONTIGIOUS PART OF BLK 1, PLAT OF WEST FLINT DESC AS: THE WLY 20 FT OF THE SLY 60 FT OF LOT 6 AS ORIGINALLY PLATTED & THAT PART OF LOT 7 AS ORIGINALLY PLATTED LYING SLY OF THE SD SLY R/W LINE; ALSO A CONTIGIOUS PART OF LOTS 2, 3 & 4, BLK 4 OF SD PLAT & PART OF VACATED ASYLUM ST. & VACATED KEARSLEY ST. DESC AS FOLL: BEG AT THE SELY COR OF LOT 10 OF SD BLK 3; TH SELY ALG ELY LINE OF SD LOT EXTENDED SELY 3.0 FT; TH SWLY = TO SLY LINE OF SD LOT & ITS SWLY EXTENSION, 90 FT; TH SWLY TO A PT ON SLY LINE OF KEARSLEY ST., 78 FT SWLY FROM ITS INT WITH WLY LINE OF CHASE ST.; TH SWLY TO A PT ON ELY LINE OF ASYLUM ST, 84 FT SELY FROM NWLY COR OF SD LOT 4 AS ORIGINALLY PLATTED; TH SWLY TO A PT ON WLY LINE OF ASYLUM ST., 15 FT NWLY FROM ITS INT WITH NWLY LINE OF GLENWOOD AVE; TH NWLY ALG SD WLY LINE EXTENDED NWLY TO NLY LINE OF KEARSLEY ST AS ORIGINALLY PLATTED; TH NELY ALG SD NLY LINE TO BEG; EXC THAT PART OF WLY 1/2 OF VACATED ASYLUM ST LYING SELY OF FOLL DESC LINE: COM AT INT OF WLY LINE OF ASYLUM ST WITH NWLY LINE OF GLENWOOD AVE; TH NWLY ALG SD WLY LINE AND ITS NWLY EXT, 80 FT FOR P.O.B.; TH ELY AT RT ANGLES A DIST OF 33 FT TO P.O.E.

Documentation of Communication

Date 12/27/06
Time 10:30 AM EDT
Type of Communication Visited Office

ARCADIS BBL Representative	Tiffany Linder and Susannah Duly
Source of Communication (Organization)	City of Flint Legal Department (Building and Safety, Fire Department and Water and Sewer Department) 1101 South Saginaw Street Flint, MI 48502
Source / Organization Contact	FOIA Coordinator
Contact #	Phone: (810) 766-7146
Email	Fax: (810) 766-8694

Specific Subject Matter:

ARCADIS BBL representatives visited the City of Flint Legal Department to complete a FOIA request for available documentation pertaining to building and demolition permits, permits for underground storage tanks or aboveground storage tanks, usage of heating oil, sewer and water connection/availability dates, and information pertaining to fires or incidents/inspections recorded for Area H. In essence pertinent information was requested from the Building and Safety Department, Fire Department and Water and Sewer Department. Based on the possibility that additional information pertaining to Area H may not be found utilizing the parcel number, ARCADIS BBL submitted a subsequent FOIA request for available information pertaining to addresses associated with the historical structures identified on Area H. A response is pending.

**MICHIGAN FREEDOM OF INFORMATION ACT
REQUEST FOR PUBLIC RECORDS**

NAME OF REQUESTER Tiffany Linder
STREET ADDRESS 10559 Citation Drive
CITY BRIGHTON STATE MI ZIP 48116

SIGNATURE OF REQUESTOR Tiffany Linder DATE 12/27/06
PHONE NUMBER
810 229 8823 EXT 128
810 355-6319 CELL

TYPE OF RECORD REQUESTED

- ☐ TRAFFIC ACCIDENT REPORT
(GIVE REPORT NUMBER, IF KNOWN) _____
☐ COMPLAINT REPORT
(GIVE REPORT NUMBER, IF KNOWN) _____
☐ CRIMINAL HISTORY RECORD
DATE OF BIRTH (CRIMINAL HISTORY CHECKS) _____

☒ OTHER RECORD (DESCRIBE)

- BUILDING & SAFETY RECORDS.
- FIRE DEPT RECORDS
- ASSESSING RECORDS

NAME REFERRED TO IN RECORD OR DRIVER INVOLVED

LOCATION OF EVENT (IF TRAFFIC ACCIDENT, GIVE STREET AND CROSS STREET)

DATE OF EVENT (BE SPECIFIC)

RECEIVED

DEC 27 2006

**CITY ATTORNEY'S
OFFICE**

SPECIFIC EVENT TO WHICH RECORD REFERS:

- EACH PROPERTY CONTAINED SEVERAL HOMES + BUILDINGS HISTORICALLY BUT NOW ARE PARKING LOT AREAS..
- REQUESTING DOCUMENTATION PERTAINING TO BUILDING + DEMOLITION PERMITS, PERMITS FOR UNDERGROUND STORAGE TANKS OR ABOVEGROUND STORAGE TANKS. USAGE OF HEATING OIL, SEWER + WATER CONNECTION DATES. INFO PERTAINING TO FIRES OR INCIDENTS, INSPECTIONS AT PROPERTIES. AND ASSESSMENT INFO SIZE OF PARCELS, DIMENSIONS AND FIELD CUES.

PROPERTIES OF INTEREST - 40-13-334-019, 40-13-253-011,
40-13-128-028, 40-13-129-019, 40-13-130-045,
40-13-177-002, 40-13-332-004, 40-13-329-023,
40-13-327-007

PLEASE CALL IF CHARGES EXCEED \$25.00.

SI FORMSFOIA.DOC

Documentation of Communication

Date 01/10/07
Time 11:30 AM EDT
Type of Communication Telephone

ARCADIS BBL Representative	Tiffany Linder
Source of Communication (Organization)	City of Flint Water Pollution Control Department G-4256 Beecher Road Flint, MI 48502
Source / Organization Contact	Administrative Assistant
Contact #	Phone: (810) 766-7210
Email	Fax: (810) 230-3154

Specific Subject Matter:

ARCADIS BBL contacted the City of Flint Pollution Control Department in an attempt to obtain information pertaining to the timeframe when sanitary sewer services were available in the area of the subject property. A response is pending.

Documentation of Communication

Date 01/10/07
Time 11:45 AM EDT
Type of Communication Telephone

ARCADIS BBL Representative	Tiffany Linder
Source of Communication (Organization)	City of Flint Water Service Center 3310 East Court Street Flint, MI 48502
Source / Organization Contact	Administrative Assistant
Contact #	Phone: (810) 766-7202
Email	Fax: (810) 742-6283

Specific Subject Matter:

ARCADIS BBL contacted the City of Flint Water Service Center in an attempt to obtain information pertaining to the timeframe when municipal water and storm water services were available in the area of the subject property. A response is pending.

Appendix C

Photographs



Photograph 1. View of Area H, facing east.



Photograph 2. View of several former post holes observed in the western portion of Area H.



Photograph 3. View of the adjacent commercial properties south of Area H.



Photograph 4. View of the adjoining parking lot area west of Area H.



Photograph 5. View of the adjoining Consumers Power electrical substation located at Area H.

Appendix D

Environmental Database Report



The EDR Radius Map with GeoCheck®

**Flint West Parking Lots - Areas H, J & M
Glenwood Avenue/Stevenson Street
Flint, MI 48504**

Inquiry Number: 1815927.10s

December 12, 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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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

GLENWOOD AVENUE/STEVENSON STREET
FLINT, MI 48504

COORDINATES

Latitude (North):	43.012200 - 43° 0' 43.9"
Longitude (West):	83.702700 - 83° 42' 9.7"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	279739.0
UTM Y (Meters):	4765499.5
Elevation:	721 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	43083-A6 FLINT NORTH, MI
Most Recent Revision:	1975
South Map:	42083-H6 FLINT SOUTH, MI
Most Recent Revision:	1975

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
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
ICIS.....	Integrated Compliance Information System
PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
MINES.....	Mines Master Index File
RAATS.....	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

SWF/LF.....	Solid Waste Facilities Database
HIST LF.....	Inactive Solid Waste Facilities
AST.....	Aboveground Tanks
PEAS.....	Pollution Emergency Alerting System
DRYCLEANERS.....	Drycleaning Establishments
NPDES.....	List of Active NPDES Permits
AIRS.....	Permit and Emissions Inventory Data

TRIBAL RECORDS

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

CERCLIS-NFRAP: 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.

A review of the CERC-NFRAP list, as provided by EDR, and dated 10/10/2006 has revealed that there are 2 CERC-NFRAP sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
WALKER STREET MERCURY SPILL SI	1210 WALKER	1/2 - 1 SE	45	56
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELPHI AUTOMOTIVE SYSTEMS LLC	300 N CHEVROLET AVENUE	1/4 - 1/2 WSW D19		30

CORRACTS: CORRACTS is a list of handlers with RCRA Corrective Action Activity. This report shows which nationally-defined corrective action core events have occurred for every handler that has had corrective action activity.

A review of the CORRACTS list, as provided by EDR, and dated 03/15/2006 has revealed that there is 1 CORRACTS site within approximately 1.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELPHI AUTOMOTIVE SYSTEMS LLC	300 N CHEVROLET AVENUE	1/4 - 1/2 WSW D19		30

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-TSDF list, as provided by EDR, and dated 06/13/2006 has revealed that there is 1 RCRA-TSDF site within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELPHI AUTOMOTIVE SYSTEMS LLC	300 N CHEVROLET AVENUE	1/4 - 1/2 WSW D19		30

EXECUTIVE SUMMARY

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 06/13/2006 has revealed that there are 9 RCRA-SQG 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>
CADILLAC FLINT TOOL AND DIE	425 S STEVENSON ST	1/8 - 1/4NNW	1	6
GMC WHS & DIST DIV FLINT PLT 3	1515 BLUFF ST	1/4 - 1/2 W	4	8
CONTAINER SPECIALTIES INC	607 W SECOND ST	1/4 - 1/2 E	6	9
SPEEDWAY SUPERAMERICA LLC	1330 W COURT ST	1/4 - 1/2 S	C10	13
SUNOCO SERVICE STATION	1646 W THIRD ST	1/4 - 1/2 W	F32	44
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DOVER & CO	651 HALL ST	1/4 - 1/2 ESE	A2	6
CENTRAL PRINTING	129 N GRAND TRAVERSE	1/4 - 1/2 NE	B7	12
DELPHI AUTOMOTIVE SYSTEMS LLC	300 N CHEVROLET AVENUE	1/4 - 1/2 WSW	D19	30
ALLEN STORAGE & MOVING	501 WEST KEARSLEY ST	1/4 - 1/2 ENE	B22	37

US BROWNFIELDS: The EPA's listing of Brownfields properities 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 07/10/2006 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.75 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
THREAD LAKE	INTERSECTION OF I-475 A	1/4 - 1/2 ENE	14	18
408 GARLAND STREET	408 GARLAND STREET	1/2 - 1 NE	40	52

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 07/21/2006 has revealed that there is 1 FINDS site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CADILLAC FLINT TOOL AND DIE	425 S STEVENSON ST	1/8 - 1/4NNW	1	6

EXECUTIVE SUMMARY

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 08/16/2006 has revealed that there are 5 SHWS sites within approximately 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
1742 W. COURT STREET Facility Status: Inactive - no actions taken to address contamination	1742 W. COURT STREET	1/4 - 1/2 SW	30	43
GENESEE COUNTY DETENTION CENTE Facility Status: Remedial Action in Progress (may incl. use restrictions, O&M and/or monitoring)	1002 SOUTH SAGINAW STRE	1/2 - 1 E	48	60
1005 ROOT STREET Facility Status: Evaluation conducted	1005 ROOT STREET	1/2 - 1 NNE	49	60
OIL CHEM INC. Facility Status: Interim Response in progress	711 WEST 12TH STREET	1/2 - 1 SE	51	61
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GM FISHER GUIDE FLINT Facility Status: Deleted - available documentation does not support listing	300 N. CHEVROLET AVE	1/4 - 1/2 WSW D20		35

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 08/28/2006 has revealed that there is 1 DEL SHWS site within approximately 1.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GM FISHER GUIDE FLINT	300 N. CHEVROLET AVE	1/4 - 1/2 WSW D20		35

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 09/13/2006 has revealed that there are 14 LUST sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
CONTAINER SPECIALTIES INC Facility Status: Closed	607 W SECOND ST	1/4 - 1/2 E	6	9
FLINT FUEL STOP INC Facility Status: Closed	1330 W COURT ST	1/4 - 1/2 S	C9	13
CURRENTLY KOWN AS LARSON OPTIC Facility Status: Open	1308 W COURT ST	1/4 - 1/2 SSE	C21	36
CENTRAL QUALITY SERVICES Facility Status: Open	1701 GLENWOOD AVE	1/4 - 1/2 SW	E24	38

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
NRT OWNER Facility Status: Open	1625 W 3RD AVE	1/4 - 1/2WNW F28		41
RUPPS SERVICE Facility Status: Open	527 N GRAND TRAVERSE ST	1/4 - 1/2NNE	29	41
KETTERING UNIVERSITY Facility Status: Closed Facility Status: Closed	1700 W 3RD AVE	1/2 - 1 W	G33	45
MIDNIGHT BURGLAR ALARM SYSTEM, Facility Status: Closed	1026 ANN ARBOR ST	1/2 - 1 ESE	35	47
FLINT MAIN CO Facility Status: Closed	502 BEACH ST	1/2 - 1 ENE	H37	48
FORMER GASOLINE STATION Facility Status: Open	522 BEACH ST	1/2 - 1 ENE	H39	51
MONTGOMERY WARD (FORMER) Facility Status: Open Facility Status: Open	630 S SAGINAW	1/2 - 1 ENE	43	53
STUDENT PARKING LOT G, ADJACEN Facility Status: Closed Facility Status: Closed	303 E KEARSLEY ST	1/2 - 1 ENE	46	57
JIMS AUTOMATIC TRANSMISSION SE Facility Status: Open	2102 CORUNNA RD	1/2 - 1 SW	47	59
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELPHI ENERGY & ENGINE MGMT SY Facility Status: Closed Facility Status: Closed	300 N CHEVROLET	1/4 - 1/2WSW	D18	19

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 09/13/2006 has revealed that there are 10 UST 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>
SHELTON SHELL	921 W 3RD AVE	1/4 - 1/2NNW	5	8
CONTAINER SPECIALTIES INC	607 W SECOND ST	1/4 - 1/2E	6	9
FLINT FUEL STOP INC	1330 W COURT ST	1/4 - 1/2S	C13	15
CURRENTLY KOWN AS LARSON OPTIC	1308 W COURT ST	1/4 - 1/2SSE	C21	36
CENTRAL QUALITY SERVICES	1701 GLENWOOD AVE	1/4 - 1/2SW	E24	38
MICH SCHOOL FOR DEAF	MILLER & COURT	1/4 - 1/2SSE	26	39
CBC RECYCLING	1007 CEDAR ST	1/4 - 1/2SE	27	40
RUPPS SERVICE	527 N GRAND TRAVERSE ST	1/4 - 1/2NNE	29	41
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DOVER & CO	651 HALL ST	1/4 - 1/2ESE	A3	7
DELPHI ENERGY & ENGINE MGMT SY	300 N CHEVROLET	1/4 - 1/2WSW	D18	19

EXECUTIVE SUMMARY

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

A review of the AUL list, as provided by EDR, and dated 06/30/2006 has revealed that there is 1 AUL site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FLINT FUEL STOP INC	1330 W COURT ST	1/4 - 1/2 S	C9	13

BROWNFIELDS: Brownfields and USTfield Site Database.

A review of the BROWNFIELDS list, as provided by EDR, and dated 09/18/2006 has revealed that there is 1 BROWNFIELDS site within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
KETTERING UNIVERSITY PROPERTY	1700 W. 3RD AVE.	1/2 - 1 W	G34	47

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 09/14/2006 has revealed that there are 15 BEA sites within approximately 0.75 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
1330 WEST COURT STREET	1330 WEST COURT STREET	1/4 - 1/2 S	C11	14
FORMER TOTAL STATION #4250	1330 WEST COURT STREET	1/4 - 1/2 S	C12	14
1701 GLENWOOD AVENUE	1701 GLENWOOD AVENUE	1/4 - 1/2 SW	E25	38
1742 W. COURT STREET	1742 W. COURT STREET	1/4 - 1/2 SW	30	43
1638 W. 3RD AVENUE	1638 W. 3RD. AVENUE	1/4 - 1/2 WNW	F31	44
1102 FLUSHING AVENUE	1102 FLUSHING AVENUE	1/2 - 1 NNW	36	48
522 BEACH STREET	522 BEACH ST.	1/2 - 1 ENE	H38	50
460 SOUTH SAGINAW STREET	460 SOUTH SAGINAW STREE	1/2 - 1 ENE	41	52
Not reported	132 WEST COURT STREET	1/2 - 1 E	44	55
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
119 NORTH GRAND TRAVERSE STREE	119 N. GRAND TRAVERSE S	1/4 - 1/2 ENE	B8	13
FORMER FLINT LUMBER YARD	110 N. GRAND TRAVERSE S	1/4 - 1/2 ENE	B15	18
FLINT LUMBER YARD	110 N. GRAND TRAVERSE S	1/4 - 1/2 ENE	B16	18
FORMER FLINT LUMBER YARD	110 N GRAND TRAVERSE ST	1/4 - 1/2 ENE	B17	19
501 WEST KEARSLEY STREET	501 WEST KEARSLEY	1/4 - 1/2 ENE	B23	37
401 NORTH MARTIN LUTHER KING A	401 NORTH MARTIN LUTHER	1/2 - 1 NE	42	52

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 non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the

EXECUTIVE SUMMARY

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 1.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FLINT GAS LIGHT CO	EAST AND LIBERTY STREET	1/2 - 1 ENE	50	60

EXECUTIVE SUMMARY

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

Site Name	Database(s)
HALL STREET/ALDRICH PARK	SHWS, BROWNFIELDS
MT MORRIS DUMPSITE	SHWS, DEL SHWS
E I DUPONT DUMP	HIST LF
SUNSHINE FOODS #115	BROWNFIELDS
FORMER SUNOCO #0354	BROWNFIELDS
J & J SERVICES	BROWNFIELDS
SPEEDWAY #8746	AUL
DELPHI ENERGY & ENGINE	PEAS, AUL
POINT AMOCO	AUL
GENESEE CO RD COMMISSION	AUL
NORTHWEST TIRE & SERVICE	LUST, UST
MR MICHAEL G RINOLDO	LUST
J & J SERVICE STATION INC	LUST, UST
FORMER MOBIL	LUST
DUNKIN DONUTS / MARATHON 2086	LUST, UST
TMT AUTO MALL	LUST, UST
MICRO TOUCH	LUST, UST
CLARK STORE #1938	LUST, UST
SUNSET HILLS ASSOC	LUST, UST
PHIL FLINT OIL CO	LUST
POINT AMOCO	LUST, UST
LETAVIS CLOTH WASH	LUST, UST
WILLIAMSON BODY SHOP	LUST, UST
SUNOCO MILLER/I75	LUST, UST
MILLER ROAD AMOCO	LUST, UST
SPEEDWAY #8746	LUST, UST
ADMIRAL PETROLEUM CO #149	LUST
RITE AID	RCRA-SQG
TRUE GREEN CHEMLAWN	RCRA-SQG
K & W TRUCKING	RCRA-SQG
EAST STEWART ST.	US BROWNFIELDS
G-1274 BALLENGER HIGHWAY	BEA
G-1274 BALLENGER HIGHWAY	BEA
5167 NORTH DORT HIGHWAY	BEA
PARCEL 07-32-102-001 & 07-32-102-0	BEA
G-1135 N BALLENGER HIGHWAY	BEA
CLARK STATION #1575	BEA
RAILROAD RIGHT-OF-WAY (FORMER)	BEA
5518 NORTH SAGINAW STREET	BEA
907 PATRICK STREET	AIRS

OVERVIEW MAP - 1815927.10s



★ 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

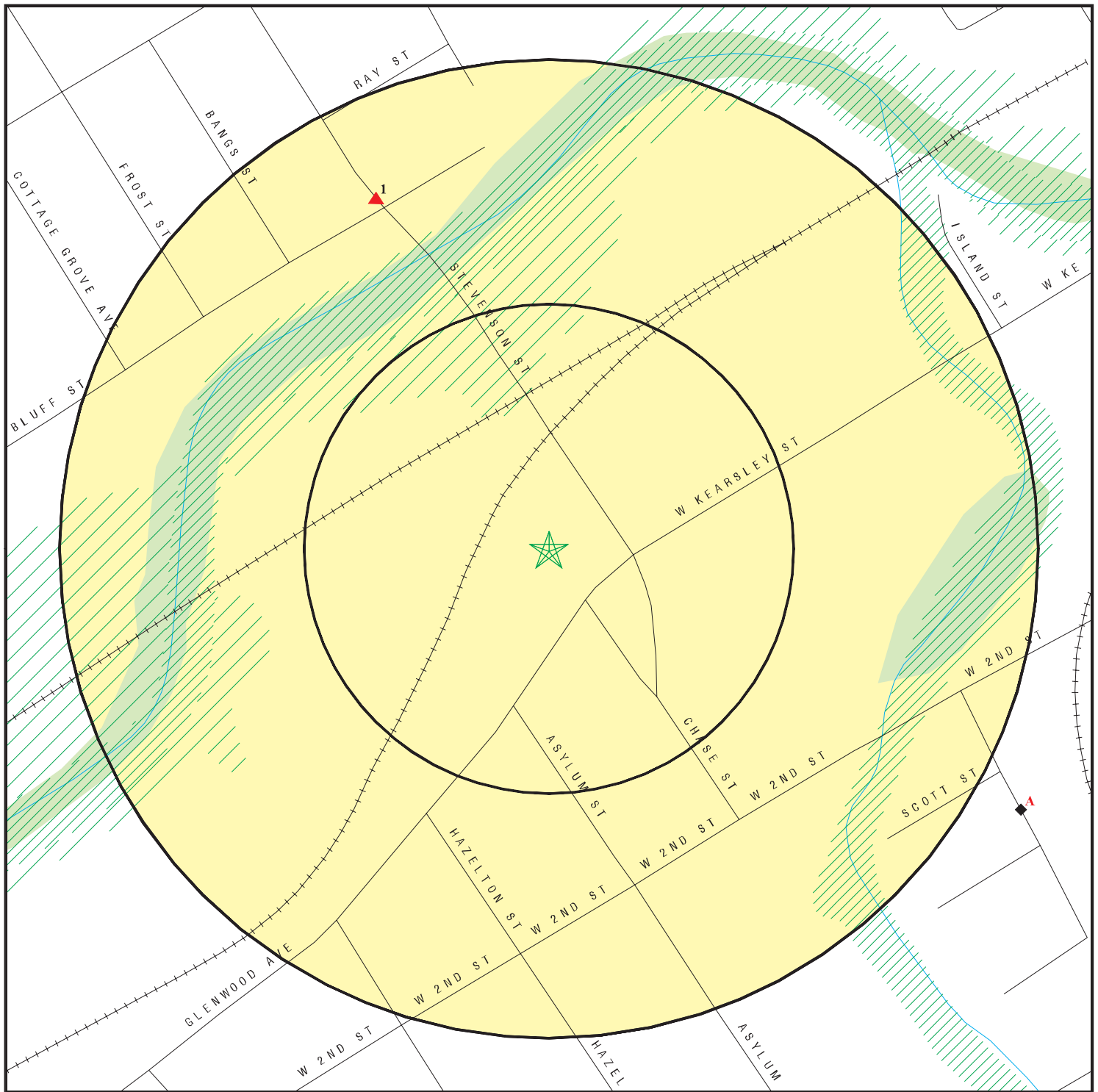
🌿 State Wetlands

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: Flint West Parking Lots - Areas H, J & M
ADDRESS: Glenwood Avenue/Stevenson Street
Flint MI 48504
LAT/LONG: 43.0122 / 83.7027

CLIENT: Blasland, Bouck & Lee
CONTACT: Lauren Alkidas
INQUIRY #: 1815927.10s
DATE: December 12, 2006 5:49 pm

DETAIL MAP - 1815927.10s



- ★ 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
- 🌿 National Wetland Inventory
- 🌿 State Wetlands

0 1/16 1/8 1/4 Miles



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: Flint West Parking Lots - Areas H, J & M
 ADDRESS: Glenwood Avenue/Stevenson Street
 Flint MI 48504
 LAT/LONG: 43.0122 / 83.7027

CLIENT: Blasland, Bouck & Lee
 CONTACT: Lauren Alkidas
 INQUIRY #: 1815927.10s
 DATE: December 12, 2006 5:49 pm

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		1.250	0	0	0	0	0	0
Proposed NPL		1.250	0	0	0	0	0	0
Delisted NPL		1.250	0	0	0	0	0	0
NPL RECOVERY		0.250	0	0	NR	NR	NR	0
CERCLIS		0.750	0	0	0	0	NR	0
CERC-NFRAP		0.750	0	0	1	1	NR	2
CORRACTS		1.250	0	0	1	0	0	1
RCRA TSD		0.750	0	0	1	0	NR	1
RCRA Lg. Quan. Gen.		0.500	0	0	0	NR	NR	0
RCRA Sm. Quan. Gen.		0.500	0	1	8	NR	NR	9
ERNS		0.250	0	0	NR	NR	NR	0
HMIRS		0.250	0	0	NR	NR	NR	0
US ENG CONTROLS		0.750	0	0	0	0	NR	0
US INST CONTROL		0.750	0	0	0	0	NR	0
DOD		1.250	0	0	0	0	0	0
FUDS		1.250	0	0	0	0	0	0
US BROWNFIELDS		0.750	0	0	1	1	NR	2
CONSENT		1.250	0	0	0	0	0	0
ROD		1.250	0	0	0	0	0	0
UMTRA		0.750	0	0	0	0	NR	0
ODI		0.750	0	0	0	0	NR	0
TRIS		0.250	0	0	NR	NR	NR	0
TSCA		0.250	0	0	NR	NR	NR	0
FTTS		0.250	0	0	NR	NR	NR	0
SSTS		0.250	0	0	NR	NR	NR	0
ICIS		0.250	0	0	NR	NR	NR	0
PADS		0.250	0	0	NR	NR	NR	0
MLTS		0.250	0	0	NR	NR	NR	0
MINES		0.500	0	0	0	NR	NR	0
FINDS		0.250	0	1	NR	NR	NR	1
RAATS		0.250	0	0	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
State Haz. Waste		1.250	0	0	2	3	0	5
DEL SHWS		1.250	0	0	1	0	0	1
State Landfill		0.750	0	0	0	0	NR	0
HIST LF		0.750	0	0	0	0	NR	0
LUST		0.750	0	0	7	7	NR	14
UST		0.500	0	0	10	NR	NR	10
AST		0.500	0	0	0	NR	NR	0
PEAS		0.250	0	0	NR	NR	NR	0
AUL		0.750	0	0	1	0	NR	1
DRYCLEANERS		0.500	0	0	0	NR	NR	0
BROWNFIELDS		0.750	0	0	0	1	NR	1
NPDES		0.250	0	0	NR	NR	NR	0
AIRS		0.250	0	0	NR	NR	NR	0
BEA		0.750	0	0	10	5	NR	15

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>
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.250	0	0	0	0	0	0
INDIAN LUST		0.750	0	0	0	0	NR	0
INDIAN UST		0.500	0	0	0	NR	NR	0

EDR PROPRIETARY RECORDS

Manufactured Gas Plants		1.250	0	0	0	1	0	1
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NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

Database(s)

1
NNW
1/8-1/4
1055 ft.

CADILLAC FLINT TOOL AND DIE
425 S STEVENSON ST
FLINT, MI 48504

RCRA-SQG
FINDS

1000254407
MID982624025

Relative:
Higher

RCRAInfo:
Contact: ELDON HARDENBURG
(313) 234-1228

Actual:
735 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

A2
ESE
1/4-1/2
1455 ft.

DOVER & CO
651 HALL ST
FLINT, MI 48501

RCRA-SQG
RI MANIFEST

1007100502
MIK842858367

Relative:
Lower

Site 1 of 2 in cluster A

RCRAInfo:
Owner: DOVER & COMPANY PARTNERSHIP
EPA ID: MIK842858367
Contact: WILLIAM DOVER
(810) 235-2573

Actual:
706 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

RI MANIFEST:

Manifest Docket Number: RIS0047209
Waste Description: LAB PACK WASTE
Quantity: 40.00
WT/Vol Units: G
Item Number: 9056
Transporter Name: REPUBLIC ENV SYS (TRANS GROUP)
Transporter EPA ID: PAD982661381
ID: 227356
GEN Cert Date: 8/8/2001 0:00:00
Transporter Recpt Date: Not reported
Transporter 2 Recpt Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DOVER & CO (Continued)

EDR ID Number
EPA ID Number

Database(s)

1007100502

TSDF Recpt Date: Not reported
EPA ID: MIK842858367
Number Of Containers: 0
Container Type: Not reported
Waste Code1: Not reported
Waste Code2: Not reported
Waste Code3: Not reported
Waste Code4: Not reported
Waste Code5: Not reported
Waste Code6: Not reported
Comment: Not reported
Fee Exempt Code: Not reported
TSDF Name: NORTHLAND ENVIRONMENTAL INC.
TSDF ID: RID040098352
Data Source: MD-ELEC
Date Imported: 10/3/2001 0:00:00
Transporter 2 Name: Not reported
Transporter 2 ID: Not reported
Quantity in LBS.: 320
Fee Reported: Not reported

A3
ESE
1/4-1/2
1455 ft.

DOVER & CO
651 HALL ST
FLINT, MI 48503

UST U000253318
N/A

Site 2 of 2 in cluster A

Relative:
Lower

UST:

Actual:
706 ft.

Owner Name: Dover & Co
Owner Address: 651 Hall St
Owner City,St,Zip: Flint, MI 48503-2645
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 235-2573
Facility ID: 00014877
Contact: WILLIAM J DOVER
Contact Phone: (313) 235-2573
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Mar 13 1961
Product: Gasoline
Remove Date: Aug 1 1988
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

4
West
1/4-1/2
1597 ft.

GMC WHS & DIST DIV FLINT PLT 3
1515 BLUFF ST
FLINT, MI 48554

RCRA-SQG
FINDS

1000136478
MID980504203

Relative:
Higher

RCRAInfo:
Contact: WAYNE DAWSON
(313) 635-5474

Actual:
725 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

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5
NNW
1/4-1/2
1824 ft.

SHELTON SHELL
921 W 3RD AVE
FLINT, MI 48504

UST

U000253383
N/A

Relative:
Higher

UST:

Owner Name: Shelton Shell
Owner Address: 921 W 3rd Ave
Owner City,St,Zip: Flint, MI 48504-4959
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-1049
Facility ID: 00004170
Contact: Not reported
Contact Phone: () -
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 2 1966
Product: Gasoline
Remove Date: Jul 24 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Shelton Shell
Owner Address: 921 W 3rd Ave
Owner City,St,Zip: Flint, MI 48504-4959
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-1049

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHELTON SHELL (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000253383

Facility ID: 00004170
Contact: Not reported
Contact Phone: () -
Tank ID: 2
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 2 1970
Product: Gasoline
Remove Date: Jul 24 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Shelton Shell
Owner Address: 921 W 3rd Ave
Owner City,St,Zip: Flint, MI 48504-4959
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-1049
Facility ID: 00004170
Contact: Not reported
Contact Phone: () -
Tank ID: 3
Tank Status: Closed in Ground
Capacity: 3000
Install Date: May 2 1966
Product: Gasoline
Remove Date: Jul 24 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

6
East
1/4-1/2
1924 ft.

CONTAINER SPECIALTIES INC
607 W SECOND ST
FLINT, MI 48503

RCRA-SQG **1000465814**
FINDS **MID985605054**
LUST
UST

Relative:
Higher

RCRAInfo:
Contact: CARL SNIDER
(313) 239-9222

Actual:
723 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CONTAINER SPECIALTIES INC (Continued)

1000465814

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Facility Status: **Closed**
Facility ID: 00034331
Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-9222
District: Lansing District Office
Leak Number: C-0168-92
Release Date: Jan 31 1992
Site Name: Container Specialties
Substance Released: Unknown
Closed Date: Oct 31 1996

UST:

Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-9222
Facility ID: 00034331
Contact: CARL SNIDER
Contact Phone: (313) 239-9222
Tank ID: 4
Tank Status: **Removed from Ground**
Capacity: 500
Install Date: Not reported
Product: Hazardous Substance
Remove Date: Feb 21 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

CONTAINER SPECIALTIES INC (Continued)

1000465814

Owner Contact: Not reported
Owner Phone: (313) 239-9222
Facility ID: 00034331
Contact: CARL SNIDER
Contact Phone: (313) 239-9222
Tank ID: 3
Tank Status: Removed from Ground
Capacity: 500
Install Date: Not reported
Product: Gasoline,AND MINERAL SPIRITS,Hazardous Substance
Remove Date: Feb 21 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-9222
Facility ID: 00034331
Contact: CARL SNIDER
Contact Phone: (313) 239-9222
Tank ID: 2
Tank Status: Removed from Ground
Capacity: 500
Install Date: Not reported
Product: Hazardous Substance
Remove Date: Feb 21 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-9222
Facility ID: 00034331
Contact: CARL SNIDER
Contact Phone: (313) 239-9222
Tank ID: 5
Tank Status: Removed from Ground
Capacity: 500
Install Date: Not reported
Product: Hazardous Substance
Remove Date: Feb 21 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CONTAINER SPECIALTIES INC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000465814

Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Container Specialties Inc
Owner Address: 3261 FLUSHING RD
Owner City,St,Zip: FLINT, MI 48504
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-9222
Facility ID: 00034331
Contact: CARL SNIDER
Contact Phone: (313) 239-9222
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 300
Install Date: Not reported
Product: Gasoline,Hazardous Substance
Remove Date: Feb 21 1992
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel,Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Unknown
Impressed Device: No

**B7
NE
1/4-1/2
1995 ft.**

**CENTRAL PRINTING
129 N GRAND TRAVERSE
FLINT, MI 48503**

**RCRA-SQG 1000418766
FINDS MID005336946**

Site 1 of 7 in cluster B

**Relative:
Lower**

RCRAInfo:
Contact: THOMAS ROACH
(313) 238-5900

Classification: Small Quantity Generator
TSD Activities: Not reported

Violation Status: No violations found

**Actual:
707 ft.**

FINDS:

Other Pertinent Environmental Activity Identified at Site

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Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

B8
ENE
1/4-1/2
2003 ft.

119 NORTH GRAND TRAVERSE STREET
119 N. GRAND TRAVERSE ST.
FLINT, MI 48503

BEA **S104911213**
N/A

Site 2 of 7 in cluster B

Relative:
Lower

BEA:

Actual:
707 ft.

Secondary Address: Not reported
BEA Number: 396
District: Lansing
Date Received: 1999-10-01 00:00:00
Submitter Name: West, Mr. Doug
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division

C9
South
1/4-1/2
2005 ft.

FLINT FUEL STOP INC
1330 W COURT ST
FLINT, MI 0

LUST **S105551578**
AUL **N/A**

Site 1 of 6 in cluster C

Relative:
Higher

LUST:

Actual:
753 ft.

Facility Status: **Closed**
Facility ID: 00007055
Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
District: Lansing District Office
Leak Number: C-0529-96
Release Date: Jul 30 1996
Site Name: Total Petroleum #2606
Substance Released: Gasoline
Closed Date: Aug 7 2001

MI AUL:

Facility/SiteID: 00007055
MDEQ Reference Number: RC-RRD-213-04-163
Date Recorded: 02/16/00

C10
South
1/4-1/2
2005 ft.

SPEEDWAY SUPERAMERICA LLC
1330 W COURT ST
FLINT, MI 48503

RCRA-SQG **1004722086**
FINDS **MI0000008110**

Site 2 of 6 in cluster C

Relative:
Higher

Actual:
753 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SPEEDWAY SUPERAMERICA LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1004722086

RCRAInfo:

Contact: CHARLES BESSE
(937) 863-6272

Classification: Small Quantity Generator
TSDF Activities: Not reported

Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

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C11
South
1/4-1/2
2005 ft.

**1330 WEST COURT STREET
1330 WEST COURT STREET
FLINT, MI 48420**

**BEA S105254459
N/A**

Site 3 of 6 in cluster C

Relative:
Higher

BEA:

Actual:
753 ft.

Secondary Address: Not reported
BEA Number: 615
District: Lansing
Date Received: 2002-02-04 00:59:00
Submitter Name: Court Oil, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: leinbaca
Division Assigned: Storage Tank Division

C12
South
1/4-1/2
2005 ft.

**FORMER TOTAL STATION #4250
1330 WEST COURT STREET
FLINT, MI 48420**

**BEA S105768424
N/A**

Site 4 of 6 in cluster C

Relative:
Higher

BEA:

Actual:
753 ft.

Secondary Address: Not reported
BEA Number: 718
District: Lansing
Date Received: 2003-03-05 00:59:00
Submitter Name: Flint Fuel Stop, INC.
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

FORMER TOTAL STATION #4250 (Continued)

EDR ID Number
EPA ID Number

Database(s)

Reviewer: lamrouem
Division Assigned: Storage Tank Division

S105768424

C13
South
1/4-1/2
2005 ft.

FLINT FUEL STOP INC
1330 W COURT ST
FLINT, MI 48503

UST U003866706
N/A

Site 5 of 6 in cluster C

Relative:
Higher

UST:

Actual:
753 ft.

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 8000
Install Date: Apr 13 1986
Product: Gasoline
Remove Date: Apr 23 1986
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 6
Tank Status: Currently In Use
Capacity: 6000
Install Date: Jul 30 1996
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

FLINT FUEL STOP INC (Continued)

U003866706

Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 5
Tank Status: Currently In Use
Capacity: 12000
Install Date: Jul 30 1996
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 7
Tank Status: Currently In Use
Capacity: 6000
Install Date: Aug 15 1996
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 2
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Jan 1 1972
Product: Gasoline
Remove Date: Jul 30 1996
Tank Release Detection: Inventory Control,Manual Tank Gauging
Pipe Realease Detection: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

FLINT FUEL STOP INC (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003866706

Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 4
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Jan 1 1972
Product: Gasoline
Remove Date: Jul 30 1996
Tank Release Detection: Inventory Control,Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Flint Fuel Stop Inc
Owner Address: 1330 W Court St
Owner City,St,Zip: Flint, MI 48503
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 810-239-6594
Facility ID: 00007055
Contact: Kussay Zubi
Contact Phone: 810-239-6594
Tank ID: 3
Tank Status: Removed from Ground
Capacity: 15000
Install Date: Jan 1 1972
Product: Gasoline
Remove Date: Jul 30 1996
Tank Release Detection: Inventory Control,Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

14
ENE
1/4-1/2
2016 ft.

**THREAD LAKE
INTERSECTION OF I-475 AND I-69
FLINT, MI 42691**

US BROWNFIELDS

**1009310619
N/A**

**Relative:
Lower**

US BROWNFIELDS:

Recipient Name: R5 TBA (Superfund Funded)
Project Name: R5 TBA (Superfund Funded)
EPA ID: 0508005
Region Number: 5
Latitude: +43.014623
Longitude: -083.69593
Assessment Date: 5/17/2000
Clean up Date: Not reported
Entity Type: Not reported

**Actual:
706 ft.**

B15
ENE
1/4-1/2
2018 ft.

**FORMER FLINT LUMBER YARD
110 N. GRAND TRAVERSE ST.
FLINT, MI 48505**

**BEA S105767581
N/A**

Site 3 of 7 in cluster B

**Relative:
Lower**

BEA:

Secondary Address: Not reported
BEA Number: 418
District: Lansing
Date Received: 2000-01-06 00:00:00
Submitter Name: CHARLES STUART MOTT FOUNDATION
Petition Determination: Affirmed
Petition Disclosure: 1
Category: Different Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: temppm
Division Assigned: Environmental Response Division

**Actual:
704 ft.**

Secondary Address: Not reported
BEA Number: 820
District: Lansing
Date Received: 2004-04-12 00:59:00
Submitter Name: Shelter of Flint, Inc.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: innesj
Division Assigned: Environmental Response Division

B16
ENE
1/4-1/2
2018 ft.

**FLINT LUMBER YARD
110 N. GRAND TRAVERSE STREET
FLINT, MI 48505**

**BEA S105768423
N/A**

Site 4 of 7 in cluster B

**Relative:
Lower**

BEA:

Secondary Address: Not reported
BEA Number: 714
District: Lansing
Date Received: 2003-02-21 00:59:00

**Actual:
704 ft.**

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

FLINT LUMBER YARD (Continued)

EDR ID Number
EPA ID Number

Database(s)

S105768423

Submitter Name: Rosewood Housing Development
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: innesj
Division Assigned: Environmental Response Division

B17
ENE
1/4-1/2
2018 ft.

FORMER FLINT LUMBER YARD
110 N GRAND TRAVERSE STREET
FLINT, MI 48505

BEA **S106425573**
N/A

Site 5 of 7 in cluster B

Relative:
Lower

BEA:

Secondary Address: Not reported
BEA Number: 821
District: Lansing
Date Received: 2004-04-12 00:59:00
Submitter Name: Rosewood Riverside Townhomes LDHA LP
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Affirmed
Reviewer: innesj
Division Assigned: Environmental Response Division

Actual:
704 ft.

D18
WSW
1/4-1/2
2022 ft.

DELPHI ENERGY & ENGINE MGMT SYSE
300 N CHEVROLET
FLINT, MI 48555

LUST **U002301140**
UST **N/A**

Site 1 of 3 in cluster D

Relative:
Lower

LUST:

Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0084-85
Release Date: May 22 1989
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Apr 1 1997
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816

Actual:
697 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

District: Lansing District Office
Leak Number: C-0085-85
Release Date: Aug 6 1986
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Apr 10 2001
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0086-85
Release Date: Apr 18 1985
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Jul 19 1995
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0087-85
Release Date: Aug 25 1986
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Jan 10 1997
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0291-99
Release Date: Mar 24 1999
Site Name: Ac Rochester, Flint West
Substance Released: Gasoline
Closed Date: Jun 21 1999
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301140

Leak Number: C-0551-90
Release Date: Jan 2 1990
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Aug 18 1995
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0566-89
Release Date: May 22 1989
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Jul 19 1995
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-0894-90
Release Date: May 21 1990
Site Name: Ac Rochester, Flint, West
Substance Released: Not reported
Closed Date: Aug 22 1995
Facility Status: Closed
Facility ID: 00002683
Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
District: Lansing District Office
Leak Number: C-2048-92
Release Date: Nov 18 1992
Site Name: Ac Rochester, Flint, West
Substance Released: Gasoline
Closed Date: Feb 5 1997

UST:

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301140

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 50000
Install Date: Jan 22 1973
Product: FUEL OIL
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,PLASTIC COATED
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 15
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Jan 22 1973
Product: Diesel
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 5
Tank Status: Removed from Ground
Capacity: 50000
Install Date: Jan 22 1975
Product: FUEL OIL
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,PLASTIC COATED
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 10

Tank Status: Removed from Ground

Capacity: 1000
Install Date: Jan 22 1952
Product: WATER W/TRACE OF GAS
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 6

Tank Status: Removed from Ground

Capacity: 50000
Install Date: Jan 22 1975
Product: FUEL OIL
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,PLASTIC COATED
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 14

Tank Status: Removed from Ground

Capacity: 20000
Install Date: Jan 22 1967

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

Product: Gasoline
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 28

Tank Status: Removed from Ground

Capacity: 1000
Install Date: Not reported
Product: Gasoline
Remove Date: Jun 1 1995
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 9

Tank Status: Removed from Ground

Capacity: 7500
Install Date: Jan 22 1964
Product: WATER W/TRACE OF GAS
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 16
Tank Status: Removed from Ground
Capacity: 9500
Install Date: Jan 22 1973
Product: WATER W/TRACE OF GAS
Remove Date: Sep 25 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 12
Tank Status: Removed from Ground
Capacity: 16000
Install Date: Jan 22 1952
Product: Gasoline
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 25
Tank Status: Closed in Ground
Capacity: 15000
Install Date: Jan 1 1966
Product: QUENCH OIL
Remove Date: Sep 25 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 27

Tank Status: Removed from Ground

Capacity: 1000
Install Date: Not reported
Product: Gasoline
Remove Date: Jun 1 1995
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 4

Tank Status: Removed from Ground

Capacity: 50000
Install Date: Jan 22 1973
Product: FUEL OIL
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,PLASTIC COATED
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301140

Contact Phone: (810) 257-5816
Tank ID: 17
Tank Status: Removed from Ground
Capacity: 9500
Install Date: Jan 22 1973
Product: WATER W/TRACE OF GAS
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 26
Tank Status: Removed from Ground
Capacity: 20000
Install Date: Jan 1 1954
Product: Gasoline
Remove Date: Jan 1 1961
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 24
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Oct 22 1989
Product: Gasoline
Remove Date: Mar 4 1999
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inter Monitoring/Second Containment,Vapor Mon
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

U002301140

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 13

Tank Status: Removed from Ground

Capacity: 16000
Install Date: Jan 22 1952
Product: WASH WATER
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 23

Tank Status: Removed from Ground

Capacity: 12000
Install Date: Jan 22 1988
Product: Gasoline
Remove Date: Mar 4 1999
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Vapor Monitoring
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 20

Tank Status: Removed from Ground

Capacity: 550
Install Date: Jan 22 1981

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI ENERGY & ENGINE MGMT SYSE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301140

Product: Diesel
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 2

Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 22 1950
Product: WATER/TRACE OF GAS
Remove Date: Jul 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Delphi Energy & Engine Mgmt Syst
Owner Address: 1300 N DORT HWY
Owner City,St,Zip: FLINT, MI 48555
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-5816
Facility ID: 00002683
Contact: W SCHROECK
Contact Phone: (810) 257-5816
Tank ID: 8

Tank Status: Removed from Ground
Capacity: 7500
Install Date: Jan 22 1964
Product: Gasoline
Remove Date: Apr 23 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

D19
WSW
1/4-1/2
2022 ft.

DELPHI AUTOMOTIVE SYSTEMS LLC
300 N CHEVROLET AVENUE
FLINT, MI 48555

Site 2 of 3 in cluster D

Relative:
Lower

Actual:
697 ft.

Database(s)
EDR ID Number
EPA ID Number

PADS 1000436400
RCRA-SQG 48555CFLNT30
FINDS
TRIS
RCRA-TSDF
CORRACTS
CERC-NFRAP
NY MANIFEST

RCRAInfo Corrective Action Summary:

Event: CA Prioritization, Facility or area was assigned a medium corrective action priority.
Event Date: 09/27/1991
Event: RFA Completed
Event Date: 05/17/1990
Event: RFA Determination Of Need For An RFI, RFI is Necessary;
Event Date: 05/17/1990

RCRAInfo:

Owner: DELPHI FLINT - WEST
EPA ID: MID005356654
Contact: PIER BOLLINI
(810) 257-6427

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

BIENNIAL REPORTS:

Last Biennial Reporting Year: 2003

Waste	Quantity (Lbs)	Waste	Quantity (Lbs)
D001	10675.56	D002	1084.24
D005	166.81	D008	2250.00
D009	41.70		

Violation Status: Violations exist

Regulation Violated:	Not reported
Area of Violation:	GENERATOR-CONTAINER
Date Violation Determined:	10/06/1998
Actual Date Achieved Compliance:	02/13/2002
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/06/1998
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-OTHER REQUIREMENTS
Date Violation Determined:	10/06/1998
Actual Date Achieved Compliance:	02/12/2002
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	10/06/1998
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	03/17/1994
Actual Date Achieved Compliance:	05/24/1995
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	01/12/1994
Penalty Type:	Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI AUTOMOTIVE SYSTEMS LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000436400

Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	03/17/1994
Penalty Type:	Not reported
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	01/20/1995
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/25/1990
Actual Date Achieved Compliance:	08/14/1990
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/27/1990
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	07/28/1989
Actual Date Achieved Compliance:	09/20/1989
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	08/08/1989
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS
Date Violation Determined:	08/30/1988
Actual Date Achieved Compliance:	11/17/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	09/14/1988
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS (OVERSIGHT)
Date Violation Determined:	06/20/1988
Actual Date Achieved Compliance:	09/28/1988
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/29/1988
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	06/19/1987
Actual Date Achieved Compliance:	07/27/1987
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/25/1987
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS
Date Violation Determined:	06/19/1987
Actual Date Achieved Compliance:	07/27/1987
Enforcement Action:	WRITTEN INFORMAL
Enforcement Action Date:	06/25/1987
Penalty Type:	Not reported
Regulation Violated:	Not reported
Area of Violation:	TSD-OTHER REQUIREMENTS

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI AUTOMOTIVE SYSTEMS LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000436400

Date Violation Determined: 05/28/1987
Actual Date Achieved Compliance: 06/30/1987

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/03/1987
Penalty Type: Not reported

Regulation Violated: Not reported
Area of Violation: TSD-OTHER REQUIREMENTS
Date Violation Determined: 06/23/1986
Actual Date Achieved Compliance: 09/16/1986

Enforcement Action: WRITTEN INFORMAL
Enforcement Action Date: 06/26/1986
Penalty Type: Not reported

There are 11 violation record(s) reported at this site:

<u>Evaluation</u>	<u>Area of Violation</u>	<u>Date of Compliance</u>
Compliance Evaluation Inspection	GENERATOR-CONTAINER	20020213
	GENERATOR-OTHER REQUIREMENTS	20020212
Other Evaluation	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19950524
Other Evaluation	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19950524
Compliance Evaluation Inspection	GENERATOR-ALL REQUIREMENTS (OVERSIGHT)	19950524
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19900814
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19890920
Financial Record Review	TSD-FINANCIAL RESPONSIBILITY REQUIREMENTS	19881117
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS (OVERSIGHT)	19880928
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19870727
	TSD-OTHER REQUIREMENTS	19870727
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19870630
Compliance Evaluation Inspection	TSD-OTHER REQUIREMENTS	19860916

FINDS:

Other Pertinent Environmental Activity Identified at Site

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

The NEI (National Emissions Inventory) database contains information on stationary and mobile sources that emit criteria air pollutants and their precursors, as well as hazardous air pollutants (HAPs).

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI AUTOMOTIVE SYSTEMS LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000436400

under RCRA.

TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

CORRACTS:

EPA ID: MID005356654
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 05/17/1990
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 336399
336399 - All Other Motor Vehicle Parts Manufacturing

EPA ID: MID005356654
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 05/17/1990
Action: CA050 - RFA Completed
NAICS Code(s): 336399
336399 - All Other Motor Vehicle Parts Manufacturing

EPA ID: MID005356654
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 09/27/1991
Action: CA075ME - CA Prioritization, Facility or area was assigned a medium corrective action priority
NAICS Code(s): 336399
336399 - All Other Motor Vehicle Parts Manufacturing

CERC-NFRAP:

Site ID: 0506308
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Deferred to RCRA

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: GMC - CHEVROLET - FLINT MFG.
Alias Address: Not reported
GENESEE, MI
Site Description: Not reported

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported
Date Completed: 02/16/1990
Priority Level: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI AUTOMOTIVE SYSTEMS LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000436400

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 04/11/1990
Priority Level: NFRAP (No Further Remedial Action Planned)

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 04/12/1991
Priority Level: Deferred to RCRA (Subtitle C)

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 12/18/1995
Priority Level: Not reported

NY MANIFEST:

Document ID: NYB7734645
Manifest Status: C
Trans1 State ID: 10221PNY
Trans2 State ID: Not reported
Generator Ship Date: 960314
Trans1 Recv Date: 960314
Trans2 Recv Date: Not reported
TSD Site Recv Date: 960315
Part A Recv Date: 960411
Part B Recv Date: 960328
Generator EPA ID: MID005356654
Trans1 EPA ID: NYD980769947
Trans2 EPA ID: Not reported
TSDF ID: NYD049836679
Waste Code: D002 - NON-LISTED CORROSIVE WASTES
Quantity: 00450
Units: P - Pounds
Number of Containers: 003
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00150
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Waste Code: Not reported
Quantity: 00075
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: R Material recovery of more than 75 percent of the total material.
Specific Gravity: 100
Year: 96
Facility Type: Generator
EPA ID: MID005356654
Facility Name: AC ROCHESTER WEST
Facility Address: 300 NORTH CHEVROLET AVE.
Facility City: FLINT

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

DELPHI AUTOMOTIVE SYSTEMS LLC (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000436400

Facility Zip 4: Not reported
Country: Not reported
County: Not reported
Mailing Name: AC ROCHESTER WEST
Mailing Contact: GARY RODABAUGH
Mailing Address: 300 NORTH CHEVROLET AVENUE
Mailing City: FLINT
Mailing State: MI
Mailing Zip: 48555
Mailing Zip4: Not reported
Mailing Country: Not reported
Mailing Phone: 313-236-4881

[Click this hyperlink](#) while viewing on your computer to access
1 additional NY MANIFEST: record(s) in the EDR Site Report.

D20
WSW
1/4-1/2
2022 ft.

GM FISHER GUIDE FLINT
300 N. CHEVROLET AVE
FLINT, MI 48555

SHWS S103595330
PEAS N/A
DEL SHWS

Site 3 of 3 in cluster D

Relative:
Lower

Actual:
697 ft.

SHWS:

Facility ID: 25000011
Source: Automotive Services
SAM Score: 27 out of 48
SAM Score Date: 02/27/1991
Township: 07N
Range: 06E
Section: 13
Quarter: SW
Quarter/Quarter: null
Facility Status: Deleted - available documentation does not support listing
Pollutant(s): Benzene; Toluene; Xylenes

MI PEAS:

Incident Date: 02/12/04
Date Of PEAS Call: Not reported
Complainant / Company: Mark Mathews w/Delphi
Complainant Location: Not reported
Complainant Address: Not reported
Complainant Phone: Not reported
Company Involved: City of Flint Waste Water Treatment Plant
Company Involved Address: Not reported
Township Of Incident: Not reported
Name/Volume Of Contaminant: Raw sewage/unknown volume
Surface Water Involved?: Not reported
Dispatched To District Staff: null
DEQ Division Involved: null
Date Dispatch: Not reported
PEAS Number: Not reported
Incident Description: Raw sewage is coming out of manhole going accross property & back into river.
Description: Not reported

DELETED HWS:

Facility ID: 25000011

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GM FISHER GUIDE FLINT (Continued)

EDR ID Number
EPA ID Number

Database(s)

Status: Deleted - available documentation does not support listing

S103595330

C21
SSE
1/4-1/2
2029 ft.

CURRENTLY KOWN AS LARSON OPTICAL
1308 W COURT ST
FLINT, MI 48503

LUST U003758946
UST N/A

Site 6 of 6 in cluster C

Relative:
Higher

LUST:

Actual:
752 ft.

Facility Status: Open
Facility ID: 00040532
Owner Name: Burgess Reality-Property Seller
Owner Address: PO Box 247
Owner City,St,Zip: Chippewa Lake, MI 49320-0247
Country: USA
Owner Contact: Not reported
Owner Phone: () -
District: Lansing District Office
Leak Number: C-0857-00
Release Date: Oct 23 2000
Site Name: Currently Kown As Larson Optical
Substance Released: Unknown
Closed Date: Not reported

UST:

Owner Name: Burgess Reality-Property Seller
Owner Address: PO Box 247
Owner City,St,Zip: Chippewa Lake, MI 49320-0247
Owner Country: USA
Owner Contact: Not reported
Owner Phone: () -
Facility ID: 00040532
Contact: MR HERBERT OBERPRILLER
Contact Phone: (810) 234-8741
Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Used Oil
Remove Date: Oct 23 2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Burgess Reality-Property Seller
Owner Address: PO Box 247
Owner City,St,Zip: Chippewa Lake, MI 49320-0247
Owner Country: USA
Owner Contact: Not reported
Owner Phone: () -
Facility ID: 00040532
Contact: MR HERBERT OBERPRILLER
Contact Phone: (810) 234-8741
Tank ID: 1
Tank Status: Removed from Ground

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CURRENTLY KOWN AS LARSON OPTICAL (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003758946

Capacity: 1000
Install Date: Not reported
Product: Gasoline
Remove Date: Oct 23 2000
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

B22
ENE
1/4-1/2
2063 ft.

ALLEN STORAGE & MOVING
501 WEST KEARSLEY ST
FLINT, MI 48503

RCRA-SQG

1007099346
MIK656189776

Site 6 of 7 in cluster B

Relative:
Lower

RCRAInfo:
Owner: 501 WEST KEARSLEY ST PARTNERSHIP
EPA ID: MIK656189776
Contact: DAVID JACKSON
(810) 629-0404

Actual:
702 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

B23
ENE
1/4-1/2
2063 ft.

501 WEST KEARSLEY STREET
501 WEST KEARSLEY
FLINT, MI 48503

BEA S105541662
N/A

Site 7 of 7 in cluster B

Relative:
Lower

BEA:
Secondary Address: Not reported
BEA Number: 671
District: Lansing
Date Received: 2002-08-01 00:59:00
Submitter Name: MMG Enterprises, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

Actual:
702 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

E24
SW
1/4-1/2
2124 ft.

CENTRAL QUALITY SERVICES
1701 GLENWOOD AVE
FLINT, MI 48503

LUST
UST
U000253000
N/A

Site 1 of 2 in cluster E

Relative:
Higher

LUST:

Actual:
738 ft.

Facility Status: **Open**
Facility ID: 00001658
Owner Name: Central Quality Serv
Owner Address: 1701 Glenwood Ave
Owner City,St,Zip: Flint, MI 48503-5528
Country: USA
Owner Contact: Not reported
Owner Phone: (313) 234-3614
District: Lansing District Office
Leak Number: C-0213-02
Release Date: Apr 18 2002
Site Name: Central Quality Services
Substance Released: Unknown
Closed Date: Not reported

UST:

Owner Name: Central Quality Serv
Owner Address: 1701 Glenwood Ave
Owner City,St,Zip: Flint, MI 48503-5528
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 234-3614
Facility ID: 00001658
Contact: BILL HOTTINGER
Contact Phone: (313) 234-3614
Tank ID: 1
Tank Status: **Closed in Ground**
Capacity: 6000
Install Date: Feb 28 1956
Product: Gasoline
Remove Date: Sep 30 1986
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

E25
SW
1/4-1/2
2124 ft.

1701 GLENWOOD AVENUE
1701 GLENWOOD AVENUE
FLINT, MI 48502

BEA
S105541659
N/A

Site 2 of 2 in cluster E

Relative:
Higher

BEA:

Actual:
738 ft.

Secondary Address: Not reported
BEA Number: 631
District: Lansing
Date Received: 2002-04-18 00:59:00
Submitter Name: City of Flint Community & Economic Dvlmt
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

1701 GLENWOOD AVENUE (Continued)

EDR ID Number
EPA ID Number

Database(s)

S105541659

Determination 20107A: No Request
Reviewer: leinbaca
Division Assigned: Storage Tank Division

26
SSE
1/4-1/2
2331 ft.

MICH SCHOOL FOR DEAF
MILLER & COURT
FLINT, MI 48502

UST U003211182
N/A

Relative:
Higher

Actual:
750 ft.

UST:

Owner Name: MDE - School For Deaf
Owner Address: MILLER & COURT
Owner City,St,Zip: FLINT, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-1440
Facility ID: 00000972
Contact: JOHN CHERNIAWSKI
Contact Phone: (810) 257-1440
Tank ID: 5
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Jun 10 1964
Product: Gasoline
Remove Date: Sep 1 1990
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: MDE - School For Deaf
Owner Address: MILLER & COURT
Owner City,St,Zip: FLINT, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-1440
Facility ID: 00000972
Contact: JOHN CHERNIAWSKI
Contact Phone: (810) 257-1440
Tank ID: 6
Tank Status: Currently In Use
Capacity: 300
Install Date: Oct 26 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Not reported
Piping Material: Cathodically Protected
Piping Type: Suction: No Valve At Tank
Constr Material: Cathodically Protected Steel,Double Walled
Impressed Device: No

Owner Name: MDE - School For Deaf
Owner Address: MILLER & COURT
Owner City,St,Zip: FLINT, MI 48502
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MICH SCHOOL FOR DEAF (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003211182

Owner Contact: Not reported
Owner Phone: (810) 257-1440
Facility ID: 00000972
Contact: JOHN CHERNIAWSKI
Contact Phone: (810) 257-1440
Tank ID: 7
Tank Status: Currently In Use
Capacity: 1000
Install Date: Oct 26 1990
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Suction: No Valve At Tank
Constr Material: Cathodically Protected Steel,Double Walled
Impressed Device: No

Owner Name: MDE - School For Deaf
Owner Address: MILLER & COURT
Owner City,St,Zip: FLINT, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 257-1440
Facility ID: 00000972
Contact: JOHN CHERNIAWSKI
Contact Phone: (810) 257-1440
Tank ID: 4
Tank Status: Removed from Ground
Capacity: 300
Install Date: Jun 10 1952
Product: Gasoline
Remove Date: Sep 1 1990
Tank Release Detection: Inventory Control,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Vapor Monitoring
Piping Material: Galvanized Steel
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

27
SE
1/4-1/2
2428 ft.

CBC RECYCLING
1007 CEDAR ST
FLINT, MI 48503

UST U003834623
N/A

Relative:
Higher

UST:

Actual:
725 ft.

Owner Name: Pattillo & Patton Prop
Owner Address: 2202 Corunna Rd
Owner City,St,Zip: Flint, MI 48503-3309
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-1657
Facility ID: 00038143
Contact: Not reported
Contact Phone: () -
Tank ID: 1
Tank Status: Removed from Ground
Capacity: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

CBC RECYCLING (Continued)

EDR ID Number
EPA ID Number

U003834623

Install Date: Not reported
Product: UNK
Remove Date: Jan 1 1997
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Not reported
Impressed Device: No

**F28
WNW
1/4-1/2
2438 ft.**

**NRT OWNER
1625 W 3RD AVE
FLINT, MI 48504**

**LUST S105552657
N/A**

Site 1 of 3 in cluster F

**Relative:
Higher**

LUST:

**Actual:
749 ft.**

Facility Status: Open
Facility ID: 50001965
Owner Name: Nrt Owner
Owner Address: Unknown
Owner City,St,Zip: Unknown, MI 99999
Country: USA
Owner Contact: Not reported
Owner Phone: Not reported
District: Lansing District Office
Leak Number: C-1010-96
Release Date: Dec 5 1996
Site Name: Third Avenue Site
Substance Released: Unknown
Closed Date: Not reported

**29
NNE
1/4-1/2
2441 ft.**

**RUPPS SERVICE
527 N GRAND TRAVERSE ST
FLINT, MI 48503**

**LUST U000253280
UST N/A**

**Relative:
Higher**

LUST:

**Actual:
739 ft.**

Facility Status: Open
Facility ID: 00005200
Owner Name: Odyssey Housing Development
Owner Address: 1225 M L King Ave
Owner City,St,Zip: Flint, MI 48503-1445
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-0483
District: Lansing District Office
Leak Number: C-2549-90
Release Date: Dec 4 1990
Site Name: Rupp's Service
Substance Released: Not reported
Closed Date: Not reported

UST:

Owner Name: Odyssey Housing Development
Owner Address: 1225 M L King Ave
Owner City,St,Zip: Flint, MI 48503-1445
Owner Country: USA

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

RUPPS SERVICE (Continued)

U000253280

Owner Contact: Not reported
Owner Phone: (810) 238-0483
Facility ID: 00005200
Contact: DENNIS CROW
Contact Phone: (810) 238-0483
Tank ID: 2
Tank Status: Currently In Use
Capacity: 4000
Install Date: Apr 9 1969
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inventory Control
Pipe Release Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Owner Name: Odyssey Housing Development
Owner Address: 1225 M L King Ave
Owner City,St,Zip: Flint, MI 48503-1445
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-0483
Facility ID: 00005200
Contact: DENNIS CROW
Contact Phone: (810) 238-0483
Tank ID: 4
Tank Status: Removed from Ground
Capacity: 550
Install Date: Jan 1 1968
Product: Used Oil,BFT WASTE
Remove Date: Jul 1 1991
Tank Release Detection: Manual Tank Gauging
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: Odyssey Housing Development
Owner Address: 1225 M L King Ave
Owner City,St,Zip: Flint, MI 48503-1445
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-0483
Facility ID: 00005200
Contact: DENNIS CROW
Contact Phone: (810) 238-0483
Tank ID: 3
Tank Status: Currently In Use
Capacity: 10000
Install Date: Apr 9 1969
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inventory Control
Pipe Release Detection: Automatic Line Leak Detectors

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

RUPPS SERVICE (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000253280

Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Owner Name: Odyssey Housing Development
Owner Address: 1225 M L King Ave
Owner City,St,Zip: Flint, MI 48503-1445
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 238-0483
Facility ID: 00005200
Contact: DENNIS CROW
Contact Phone: (810) 238-0483
Tank ID: 1

Tank Status: Removed from Ground

Capacity: 6000
Install Date: Apr 9 1968
Product: Gasoline
Remove Date: Jul 1 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

30
SW
1/4-1/2
2464 ft.

1742 W. COURT STREET
1742 W. COURT STREET
FLINT, MI 0null

SHWS S102721001
BEA N/A

Relative:
Higher

SHWS:

Facility ID: 25000657
Source: Gasoline Service Station
SAM Score: 19 out of 48
SAM Score Date: 04/15/2004
Township: 07N
Range: 07E
Section: 07
Quarter: null
Quarter/Quarter: null

Actual:
753 ft.

Facility Status: Inactive - no actions taken to address contamination
Pollutant(s): Pb

BEA:

Secondary Address: Not reported
BEA Number: 99
District: Lansing
Date Received: 1997-01-22 00:00:00
Submitter Name: Fouad Abuaita, Inc.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Pending
Reviewer: temppm

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

1742 W. COURT STREET (Continued)

EDR ID Number
EPA ID Number

Database(s)

Division Assigned: Environmental Response Division

S102721001

F31
WNW
1/4-1/2
2477 ft.

1638 W. 3RD AVENUE
1638 W. 3RD. AVENUE
FLINT, MI 48504

BEA **S104911204**
N/A

Site 2 of 3 in cluster F

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 393
District: Lansing
Date Received: 1999-09-24 00:00:00
Submitter Name: Kettering University
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division

Actual:
750 ft.

F32
West
1/4-1/2
2491 ft.

SUNOCO SERVICE STATION
1646 W THIRD ST
FLINT, MI 48504

RCRA-SQG **1000331075**
FINDS **MID000677062**

Site 3 of 3 in cluster F

Relative:
Higher

RCRAInfo:
Owner: SUNOCO SERVICE STATION
EPA ID: MID000677062
Contact: DONALD WINTERS
(312) 555-1212

Actual:
746 ft.

Classification: Small Quantity Generator
TSDF Activities: Not reported
Violation Status: No violations found

FINDS:

Other Pertinent Environmental Activity Identified at Site

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

G33
West
1/2-1
2644 ft.

KETTERING UNIVERSITY
1700 W 3RD AVE
FLINT, MI 48504

LUST
UST
U003867402
N/A

Site 1 of 2 in cluster G

Relative:
Higher

LUST:

Actual:
744 ft.

Facility Status: **Closed**
Facility ID: 00015896
Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
District: Lansing District Office
Leak Number: C-0581-97
Release Date: Oct 29 1997
Site Name: Gmi Engineering & Mgt Institute
Substance Released: Unknown,Unknown
Closed Date: Jul 15 1998
Facility Status: **Closed**
Facility ID: 00015896
Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
District: Lansing District Office
Leak Number: C-2310-91
Release Date: Oct 31 1991
Site Name: Gmi Engineer & Management
Substance Released: Unknown
Closed Date: May 27 1992

UST:

Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
Facility ID: 00015896
Contact: MARCELLA J COLLING
Contact Phone: (810) 762-7904
Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 1500
Install Date: Apr 18 1976
Product: Gasoline
Remove Date: Nov 1 1991
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic,Lined Interior
Impressed Device: No

Owner Name: Kettering University

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

KETTERING UNIVERSITY (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003867402

Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
Facility ID: 00015896
Contact: MARCELLA J COLLING
Contact Phone: (810) 762-7904
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 4000
Install Date: Apr 18 1980
Product: Gasoline
Remove Date: Oct 16 1997
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Fiberglass reinforced plastic,FIBVERGLASS
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic,Lined Interior
Impressed Device: No

Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
Facility ID: 00015896
Contact: MARCELLA J COLLING
Contact Phone: (810) 762-7904
Tank ID: 4
Tank Status: Removed from Ground
Capacity: 500
Install Date: Apr 18 1976
Product: Diesel
Remove Date: Nov 1 1991
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic,Lined Interior
Impressed Device: No

Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
Facility ID: 00015896
Contact: MARCELLA J COLLING
Contact Phone: (810) 762-7904
Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Apr 18 1980
Product: Gasoline

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

KETTERING UNIVERSITY (Continued)

EDR ID Number
EPA ID Number

Database(s)

U003867402

Remove Date: Oct 16 1997
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: FIBERGLASS,Fiberglass reinforced plastic
Piping Type: Not reported
Constr Material: Fiberglass Reinforced plastic,Lined Interior
Impressed Device: No

Owner Name: Kettering University
Owner Address: 1700 West 3rd Avenue
Owner City,St,Zip: Flint, MI 48504-4832
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 762-7904
Facility ID: 00015896
Contact: MARCELLA J COLLING
Contact Phone: (810) 762-7904
Tank ID: 5

Tank Status: Currently In Use

Capacity: 560
Install Date: May 4 1999
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank
Pipe Release Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,ENVIROFLEX
Piping Type: Pressure
Constr Material: Composite(Steel w/Fiberglass),Double Walled
Impressed Device: No

G34
West
1/2-1
2644 ft.

KETTERING UNIVERSITY PROPERTY
1700 W. 3RD AVE.
FLINT, MI

BROWNFIELDS **S107135996**
N/A

Site 2 of 2 in cluster G

Relative:
Higher

BROWNFIELD:

Actual:
744 ft.

Facility ID: 00015896
Status: Not reported
Property Use: Vacant lot
BEA: Not reported
Summary: Not reported
Market: Not reported
Comments: Open LUST site, 4 tanks removed.

35
ESE
1/2-1
2726 ft.

MIDNIGHT BURGLAR ALARM SYSTEM,IN
1026 ANN ARBOR ST
FLINT, MI 48503

LUST **S105213424**
N/A

Relative:
Higher

LUST:

Facility Status: Closed
Facility ID: 00007932
Owner Name: Midnight Burglar Alarm Syst Inc
Owner Address: 1026 Ann Arbor St

Actual:
744 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MIDNIGHT BURGLAR ALARM SYSTEM,IN (Continued)

EDR ID Number
EPA ID Number

Database(s)

S105213424

Owner City,St,Zip: Flint, MI 48503-3604
Country: USA
Owner Contact: Not reported
Owner Phone: (313) 235-4000
District: Lansing District Office
Leak Number: C-0939-96
Release Date: Nov 18 1996
Site Name: Midnight Burglar Alarm System,in
Substance Released: Unknown
Closed Date: Dec 21 1996

**36
NNW
1/2-1
2990 ft.**

**1102 FLUSHING AVENUE
1102 FLUSHING AVENUE
FLINT, MI 48504**

**BEA S104909882
N/A**

**Relative:
Higher**

BEA:

Secondary Address: Not reported
BEA Number: 79
District: Lansing
Date Received: 1996-11-08 00:00:00
Submitter Name: Ms. Robin Maynard, Executive Director
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Environmental Response Division

**Actual:
779 ft.**

**H37
ENE
1/2-1
3076 ft.**

**FLINT MAIN CO
502 BEACH ST
FLINT, MI 48502**

**LUST U000253262
UST N/A**

Site 1 of 3 in cluster H

**Relative:
Higher**

LUST:

Facility Status: Closed
Facility ID: 00011701
Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477
District: Lansing District Office
Leak Number: C-2272-91
Release Date: Oct 24 1991
Site Name: Michigan Bell, Beach Street
Substance Released: Unknown
Closed Date: Jan 10 1996

**Actual:
724 ft.**

UST:

Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Owner Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

FLINT MAIN CO (Continued)

U000253262

Facility ID: 00011701
Contact: Environmental Management (Cheryl Al
Contact Phone: (866) 492-6836
Tank ID: 2
Tank Status: Closed in Ground
Capacity: 15000
Install Date: May 8 1968
Product: Not reported
Remove Date: Aug 26 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Owner Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477
Facility ID: 00011701
Contact: Environmental Management (Cheryl Al
Contact Phone: (866) 492-6836
Tank ID: 3
Tank Status: Closed in Ground
Capacity: 15000
Install Date: May 8 1968
Product: Not reported
Remove Date: Aug 26 1990
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Owner Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477
Facility ID: 00011701
Contact: Environmental Management (Cheryl Al
Contact Phone: (866) 492-6836
Tank ID: 1
Tank Status: Closed in Ground
Capacity: 15000
Install Date: May 8 1968
Product: Diesel
Remove Date: Oct 1 1991
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Suction: Valve at Tank

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

FLINT MAIN CO (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000253262

Constr Material: Asphalt Coated or Bare Steel,Cathodically Protected Steel
Impressed Device: No

Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Owner Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477
Facility ID: 00011701
Contact: Environmental Management (Cheryl AI
Contact Phone: (866) 492-6836
Tank ID: 4
Tank Status: Currently In Use
Capacity: 10000
Install Date: Jan 1 1991
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Double Walled,Fiberglass Reinforced plastic
Impressed Device: No

Owner Name: AT&T Michigan
Owner Address: 308 S Akard St Suite #1700
Owner City,St,Zip: Dallas, TX 75202-5399
Owner Country: USA
Owner Contact: Derrick Taylor
Owner Phone: (214) 464-1477
Facility ID: 00011701
Contact: Environmental Management (Cheryl AI
Contact Phone: (866) 492-6836
Tank ID: 5
Tank Status: Currently In Use
Capacity: 10000
Install Date: Jan 1 1991
Product: Kerosene
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Double Walled,Fiberglass Reinforced plastic
Impressed Device: No

H38
ENE
1/2-1
3091 ft.

522 BEACH STREET
522 BEACH ST.
FLINT, MI 48502

BEA S104910835
N/A

Site 2 of 3 in cluster H

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 288
District: Lansing
Date Received: 1998-09-02 00:00:00

Actual:
726 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

522 BEACH STREET (Continued)

EDR ID Number
EPA ID Number

Database(s)

S104910835

Submitter Name: Troy Farah
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: temppm
Division Assigned: Storage Tank Division

H39
ENE
1/2-1
3091 ft.

FORMER GASOLINE STATION
522 BEACH ST
FLINT, MI 48502

LUST U003426355
UST N/A

Site 3 of 3 in cluster H

Relative:
Higher

LUST:

Facility Status: Open
Facility ID: 00039762
Owner Name: Mr Troy Farah
Owner Address: PO Box 3597
Owner City,St,Zip: Flint, MI 48502-0597
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 767-5141
District: Lansing District Office
Leak Number: C-0766-98
Release Date: Aug 19 1998
Site Name: Former Gasoline Station
Substance Released: Unknown
Closed Date: Not reported

Actual:
726 ft.

UST:

Owner Name: Mr Troy Farah
Owner Address: PO Box 3597
Owner City,St,Zip: Flint, MI 48502-0597
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 767-5141
Facility ID: 00039762
Contact: MR TROY FARAH
Contact Phone: (810) 767-5141
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Not reported
Product: Used Oil
Remove Date: Aug 7 1998
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Gravity Fed?
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

40
NE
1/2-1
3302 ft.

408 GARLAND STREET
408 GARLAND STREET
FLINT, MI

US BROWNFIELDS

1006882392
N/A

Relative:
Lower

US BROWNFIELDS:

Recipient Name: City of Flint
Project Name: Flint, MI
EPA ID: Not reported
Region Number: 5
Latitude: 43.019135
Longitude: -83.694759
Assessment Date: 6/30/1999
Clean up Date: Not reported
Entity Type: Not reported

Actual:
719 ft.

41
ENE
1/2-1
3470 ft.

460 SOUTH SAGINAW STREET
460 SOUTH SAGINAW STREET
FLINT, MI 48502

BEA **S105541663**
N/A

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 677
District: Lansing
Date Received: 2002-08-23 00:59:00
Submitter Name: Uptown Developments, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

Actual:
724 ft.

Secondary Address: Not reported
BEA Number: 936
District: Lansing
Date Received: 2005-05-24 00:59:00
Submitter Name: First Street Lofts, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

42
NE
1/2-1
3553 ft.

401 NORTH MARTIN LUTHER KING AVENUE
401 NORTH MARTIN LUTHER KING AVENUE
FLINT, MI 48502

BEA **S106174296**
N/A

Relative:
Lower

BEA:

Secondary Address: Not reported
BEA Number: 805
District: Lansing
Date Received: 2004-02-04 00:59:00
Submitter Name: Uptown Reinvestment Inc.
Petition Determination: Affirmed

Actual:
714 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

401 NORTH MARTIN LUTHER KING AVENUE (Continued)

EDR ID Number
EPA ID Number

Database(s)

S106174296

Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

43
ENE
1/2-1
3599 ft.

MONTGOMERY WARD (FORMER)
630 S SAGINAW
FLINT, MI 48502

LUST U000253314
UST N/A

Relative:
Higher

LUST:

Facility Status: Open
Facility ID: 00033774
Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
District: Lansing District Office
Leak Number: C-1283-85
Release Date: Jan 1 1985
Site Name: Montgomery Ward (former)
Substance Released: Not reported
Closed Date: Not reported
Facility Status: Open
Facility ID: 00033774
Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
District: Lansing District Office
Leak Number: C-4191-85
Release Date: Jul 18 1989
Site Name: Montgomery Wards Building (forme
Substance Released: Not reported
Closed Date: Not reported

UST:

Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
Facility ID: 00033774
Contact: ROBERT L CHASE
Contact Phone: (313) 257-3001
Tank ID: 1
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Mar 1 1965
Product: Used Oil
Remove Date: Apr 10 1990
Tank Release Detection: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MONTGOMERY WARD (FORMER) (Continued)

U000253314

Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
Facility ID: 00033774
Contact: ROBERT L CHASE
Contact Phone: (313) 257-3001
Tank ID: 4

Tank Status: Removed from Ground

Capacity: Not reported
Install Date: Mar 1 1965
Product: Used Oil
Remove Date: Apr 10 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
Facility ID: 00033774
Contact: ROBERT L CHASE
Contact Phone: (313) 257-3001
Tank ID: 5

Tank Status: Removed from Ground

Capacity: Not reported
Install Date: Mar 1 1965
Product: Used Oil
Remove Date: Apr 10 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
Facility ID: 00033774

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

MONTGOMERY WARD (FORMER) (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000253314

Contact: ROBERT L CHASE
Contact Phone: (313) 257-3001
Tank ID: 3
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Mar 1 1965
Product: Used Oil
Remove Date: Apr 10 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Owner Name: Genesee County
Owner Address: Purchasing Dept 1101 Beach St
Owner City,St,Zip: Flint, MI 48502
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (819) 257-2628
Facility ID: 00033774
Contact: ROBERT L CHASE
Contact Phone: (313) 257-3001
Tank ID: 2
Tank Status: Removed from Ground
Capacity: Not reported
Install Date: Mar 1 1965
Product: Used Oil
Remove Date: Apr 10 1990
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

44
East
1/2-1
3745 ft.

132 WEST COURT STREET
FLINT, MI

BEA S106521595
N/A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 863
District: Lansing
Date Received: 2004-09-14 00:59:00
Submitter Name: First Presbyterian Church - Flint
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: innesj
Division Assigned: Environmental Response Division

Actual:
751 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

45
SE
1/2-1
3848 ft.

WALKER STREET MERCURY SPILL SITE
1210 WALKER
FLINT, MI 48503

FINDS
CERC-NFRAP

1003108967
MIN000508167

Relative:
Higher

FINDS:
Other Pertinent Environmental Activity Identified at Site

Actual:
734 ft.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

CERC-NFRAP:

Site ID: 0508167
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

CERCLIS-NFRAP Site Contact Name(s):

Contact Name: JAMES AUGUSTYN
Contact Tel: (440) 250-1742
Contact Title: On-Scene Coordinator (OSC)

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: WALKER ST. MERCURY SPILL
Alias Address: Not reported
Not reported

Site Description: MDEQ OSC James Innes called USEPA requesting assistance to conduct an Emergency Response removal action involving a mercury spill on a city street in Flint MI. The spill was suspected to have impacted a residential property located at 1210 Walker St.

CERCLIS-NFRAP Assessment History:

Action: REMOVAL
Date Started: Not reported
Date Completed: 04/06/2001
Priority Level: Cleaned up

Action: NON-NATIONAL PRIORITIES LIST POTENTIALLY RESPONSIBLE PARTY SEARCH
Date Started: 03/19/2001
Date Completed: 09/27/2002
Priority Level: Not reported

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 07/07/2005
Priority Level: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

46
ENE
1/2-1
3866 ft.

STUDENT PARKING LOT G, ADJACENT TO WILSON PARK
303 E KEARSLEY ST
FLINT, MI 48502

LUST
UST

U002301144
N/A

Relative:
Higher

LUST:

Facility Status: **Closed**
Facility ID: 00009980
Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
District: Lansing District Office
Leak Number: C-0450-04
Release Date: Oct 26 2004
Site Name: Student Parking Lot G, Adjacent to Wilson Park
Substance Released: Unknown,Gasoline,Gasoline
Closed Date: Nov 8 2005
Facility Status: **Closed**
Facility ID: 00009980
Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
District: Lansing District Office
Leak Number: C-0525-94
Release Date: May 31 1994
Site Name: Mich., Univ. Of, Classroom/office
Substance Released: Diesel
Closed Date: Apr 25 1995

UST:

Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
Facility ID: 00009980
Contact: Mike Lane
Contact Phone: (810) 766-6762
Tank ID: 2
Tank Status: **Removed from Ground**
Capacity: 200
Install Date: Mar 14 1983
Product: Diesel
Remove Date: May 3 1998
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

STUDENT PARKING LOT G, ADJACENT TO WILSON PARK (Continued)

U002301144

Owner City,St,Zip: Flint, MI 48502-1950
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
Facility ID: 00009980
Contact: Mike Lane
Contact Phone: (810) 766-6762
Tank ID: 5
Tank Status: Currently In Use
Capacity: 1000
Install Date: Aug 1 1994
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank
Pipe Realease Detection: Not reported
Piping Material: Bare Steel,Secondary Containment
Piping Type: Gravity Fed?,Pressure
Constr Material: Composite(Steel w/Fiberglass),Double Walled
Impressed Device: Yes

Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
Facility ID: 00009980
Contact: Mike Lane
Contact Phone: (810) 766-6762
Tank ID: 4
Tank Status: Removed from Ground
Capacity: 300
Install Date: Jan 1 1980
Product: Diesel
Remove Date: May 3 1998
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
Facility ID: 00009980
Contact: Mike Lane
Contact Phone: (810) 766-6762
Tank ID: 3
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 1 1988
Product: Diesel
Remove Date: May 10 2004

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

STUDENT PARKING LOT G, ADJACENT TO WILSON PARK (Continued)

EDR ID Number
EPA ID Number

Database(s)

U002301144

Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Cathodically Protected Steel
Impressed Device: No

Owner Name: The Regents/University of Michigan - Flint
Owner Address: 303 East Kearsley St 204 University Pavilion
Owner City,St,Zip: Flint, MI 48502-1950
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (810) 766-6762
Facility ID: 00009980
Contact: Mike Lane
Contact Phone: (810) 766-6762
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Mar 13 1977
Product: Diesel
Remove Date: May 31 1994
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

47
SW
1/2-1
3916 ft.

**JIMS AUTOMATIC TRANSMISSION SERVICE
2102 CORUNNA RD
FLINT, MI 48503**

**LUST S108084543
N/A**

**Relative:
Higher**

LUST:

**Actual:
789 ft.**

Facility Status: Open
Facility ID: 50005554
Owner Name: Jims Automatic Transmission Serv
Owner Address: 2202 Corunna Rd
Owner City,St,Zip: Flint, MI 48503-3309
Country: USA
Owner Contact: Not reported
Owner Phone: (313) 239-8354
District: Lansing District Office
Leak Number: C-0240-06
Release Date: Oct 20 1989
Site Name: Jims Automatic Transmission Service
Substance Released: Unknown
Closed Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

48
East
1/2-1
4218 ft.

GENESEE COUNTY DETENTION CENTER
1002 SOUTH SAGINAW STREET
FLINT, MI 0

SHWS
AUL

S105143994
N/A

Relative:
Higher

SHWS:

Facility ID: 25000010
Source: Unknown
SAM Score: 40 out of 48
SAM Score Date: 03/09/2004
Township: 07N
Range: 07E
Section: 18
Quarter: SW
Quarter/Quarter: NE
Facility Status: Remedial Action in Progress (may incl. use restrictions, O&M and/or monitoring)
Pollutant(s): Gasoline; Oil

Actual:
753 ft.

MI AUL:

Facility/SiteID: 25000010
MDEQ Reference Number: RC-RRD-03-002
Date Recorded: 03/05/04

49
NNE
1/2-1
4834 ft.

1005 ROOT STREET
1005 ROOT STREET
FLINT, MI 48503

SHWS
S108036277
N/A

Relative:
Higher

SHWS:

Facility ID: 25000070
Source: null
SAM Score: 33 out of 48
SAM Score Date: 11/03/2005
Township: 7S
Range: 6E
Section: 12
Quarter: null
Quarter/Quarter: null
Facility Status: Evaluation conducted
Pollutant(s): Sb; As; Pb

Actual:
743 ft.

50
ENE
1/2-1
4852 ft.

FLINT GAS LIGHT CO
EAST AND LIBERTY STREET
FLINT, MI 48503

Manufactured Gas Plants
1008408106
N/A

Relative:
Higher

Manufactured Gas Plants:

Alternate Name: CONSUMERS POWER CO.

Actual:
722 ft.

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

51
SE
1/2-1
5236 ft.

OIL CHEM INC.
711 WEST 12TH STREET
FLINT, MI 48503

SHWS S103085632
N/A

Relative:
Higher

SHWS:

Facility ID: 25000562
Source: Petroleum Bulk Stations & Term
SAM Score: 36 out of 48
SAM Score Date: 01/13/2004
Township: 07N
Range: 07E
Section: 17
Quarter: null
Quarter/Quarter: null
Facility Status: Interim Response in progress
Pollutant(s): Cd; Pb; TCE

Actual:
735 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BURTON	U000253471	NORTHWEST TIRE & SERVICE	G-4055 E COURT ST	48504	LUST, UST
FLINT	S104909661		G-1274 BALLENGER HIGHWAY	48504	BEA
FLINT	S104911288	G-1274 BALLENGER HIGHWAY	G-1274 BALLENGER HWY.	48504	BEA
FLINT	S107544057	SPEEDWAY #8746	G-1157 BALLENGER HWY	48504	AUL
FLINT	S105977255	DELPHI ENERGY & ENGINE	300 CHEVROLET AVE		PEAS, AUL
FLINT	S102852152	MR MICHAEL G RINOLDO	NE CORNER BEACH / 13TH ST	48502	LUST
FLINT	1007096413	RITE AID	CORUNNA RD WEST OF HUBBARD	48504	RCRA-SQG
FLINT	S107136042	SUNSHINE FOODS #115	2809 COURT ST.		BROWNFIELDS
FLINT	S100070410	E I DUPONT DUMP	5022 N DORT HWY		HIST LF
FLINT	S106896450	5167 NORTH DORT HIGHWAY	5167 NORTH DORT HIGHWAY		BEA
FLINT	S108084417	PARCEL 07-32-102-001 & 07-32-102-0	NORTH DORT HIGHWAY		BEA
FLINT	S107136027	FORMER SUNOCO #0354	1780 DORT HWY.		BROWNFIELDS
FLINT	1007102331	TRUE GREEN CHEMLAWN	I-69 EAST, RAMP FROM I-75 SOUT	48503	RCRA-SQG
FLINT	U002301157	J & J SERVICE STATION INC	4002 FENTON RD	48507	LUST, UST
FLINT	S107136054	J & J SERVICES	4002 FENTON RD.	48507	BROWNFIELDS
FLINT	S107596870	FORMER MOBIL	5007 FENTON RD	48507	LUST
FLINT	U000253480	DUNKIN DONUTS / MARATHON 2086	G4508 FENTON RD	48507	LUST, UST
FLINT	U000253507	TMT AUTO MALL	G-5509 FENTON RD	48507	LUST, UST
FLINT	U003103259	MICRO TOUCH	3302 FENTON RD	48507	LUST, UST
FLINT	U000253447	CLARK STORE #1938	G-3338 FLUSHING RD	48504	LUST, UST
FLINT	U000715214	SUNSET HILLS ASSOC	G-4413 FLUSHING RD	48504	LUST, UST
FLINT	S104780132	HALL STREET/ALDRICH PARK	HALL STREET/ALDRICH PARK	48503	SHWS, BROWNFIELDS
FLINT	1007098243	K & W TRUCKING	NB K-475 NEAR COURT ST OVERPAS	48502	RCRA-SQG
FLINT	S102851825	PHIL FLINT OIL CO	G-3033 MILLER RD	48507	LUST
FLINT	S107543999	POINT AMOCO	G-3356 MILLER RD	48507	AUL
FLINT	1000451791	POINT AMOCO	G3356 MILLER RD	48507	LUST, UST
FLINT	U000253453	LETAVIS CLOTH WASH	G3383 MILLER RD	48507	LUST, UST
FLINT	U003211649	WILLIAMSON BODY SHOP	G-4140 MILLER RD	48507	LUST, UST
FLINT	U003867681	SUNOCO MILLER/175	G3142 MILLER RD	48507	LUST, UST
FLINT	U000253496	MILLER ROAD AMOCO	G-5202 MILLER RD	48503	LUST, UST
FLINT	1004930583	SPEEDWAY #8746	G1157 N BALLENGER HWY	48504	LUST, UST
FLINT	S105972079	ADMIRAL PETROLEUM CO #149	G-1135 N BALLENGER HWY	48504	LUST
FLINT	S106802415	G-1135 N BALLENGER HIGHWAY	G-1135 N. BALLENGER HIGHWAY	48504	BEA
FLINT	S105966363	CLARK STATION #1575	G-1135 NORTH BALLENGER HIGHWAY	48504	BEA
FLINT	S107543810	GENESEE CO RD COMMISSION	211 WEST OAKLEY ST	48503	AUL
FLINT	S104911368	RAILROAD RIGHT-OF-WAY (FORMER)	NE OF DORT HWY / R.T. LONGWA		BEA
FLINT	S107696056		907 PATRICK STREET	48503	AIRS
FLINT	S107596704	5518 NORTH SAGINAW STREET	5518 NORTH SAGINAW STREET		BEA
FLINT	1006882399	EAST STEWART ST.	EAST STEWART ST.		US BROWNFIELDS
MT MORRIS	S103595340	MT MORRIS DUMPSITE	SOUTH OF CHURCH ST. ALONG RR T	48502	SHWS, DEL SHWS

EPA Waste Codes Addendum

Code	Description
D001	IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
D002	A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
D005	BARIUM
D008	LEAD
D009	MERCURY

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: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	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 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	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: 09/27/2006	Source: EPA
Date Data Arrived at EDR: 11/01/2006	Telephone: N/A
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/17/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: No Update Planned

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: 08/09/2006	Source: EPA
Date Data Arrived at EDR: 09/21/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	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: 10/10/2006	Source: EPA
Date Data Arrived at EDR: 10/25/2006	Telephone: 703-603-8960
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 12/18/2006
	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: 12/04/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 03/05/2007
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 12/08/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 02/19/2007
	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: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 08/01/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/18/2006	Telephone: 202-366-4555
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	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: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 11/10/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 02/05/2007
	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: 12/31/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 09/20/2006	Telephone: 202-528-4285
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

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: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 12/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 03/12/2007
	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	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 11/17/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	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: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

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: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	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: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	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: 10/19/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/18/2006
	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: 10/19/2006	Source: EPA
Date Data Arrived at EDR: 10/27/2006	Telephone: 202-566-1667
Date Made Active in Reports: 11/22/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 11/07/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

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: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 11/29/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 02/05/2007
	Data Release Frequency: Annually

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: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	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: 08/09/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/27/2006	Telephone: 303-231-5959
Date Made Active in Reports: 11/27/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 12/25/2006
	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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/21/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 43

Source: EPA
Telephone: N/A
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
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
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 12/04/2006
Next Scheduled EDR Contact: 03/05/2007
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
Date Data Arrived at EDR: 06/17/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 48

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Biennially

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: 08/16/2006
Date Data Arrived at EDR: 08/23/2006
Date Made Active in Reports: 09/14/2006
Number of Days to Update: 22

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/22/2006
Next Scheduled EDR Contact: 02/19/2007
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: 08/28/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/14/2006
Number of Days to Update: 16

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/20/2006
Next Scheduled EDR Contact: 02/19/2007
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/08/2006
Date Made Active in Reports: 09/14/2006
Number of Days to Update: 37

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 01/22/2007
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
Date Data Arrived at EDR: 02/28/2003
Date Made Active in Reports: 03/06/2003
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 517-335-4034
Last EDR Contact: 02/28/2003
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: 09/13/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/19/2006
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
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.

Date of Government Version: 09/13/2006
Date Data Arrived at EDR: 09/13/2006
Date Made Active in Reports: 10/19/2006
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 32

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
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: 10/25/2006
Date Data Arrived at EDR: 10/27/2006
Date Made Active in Reports: 12/12/2006
Number of Days to Update: 46

Source: Department of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
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: 06/30/2006
Date Data Arrived at EDR: 06/30/2006
Date Made Active in Reports: 08/09/2006
Number of Days to Update: 40

Source: Department of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 08/01/2006

Date Data Arrived at EDR: 08/31/2006

Date Made Active in Reports: 09/14/2006

Number of Days to Update: 14

Source: Department of Environmental Quality

Telephone: 517-335-4586

Last EDR Contact: 11/13/2006

Next Scheduled EDR Contact: 02/12/2007

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: 09/18/2006

Date Data Arrived at EDR: 09/20/2006

Date Made Active in Reports: 10/19/2006

Number of Days to Update: 29

Source: Department of Environmental Quality

Telephone: 517-373-4805

Last EDR Contact: 11/20/2006

Next Scheduled EDR Contact: 02/19/2007

Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

General information regarding NPDES (National Pollutant Discharge Elimination System) permits and NPDES Storm Water permits.

Date of Government Version: 10/12/2006

Date Data Arrived at EDR: 11/01/2006

Date Made Active in Reports: 12/12/2006

Number of Days to Update: 41

Source: Department of Environmental Quality

Telephone: 517-241-1300

Last EDR Contact: 11/01/2006

Next Scheduled EDR Contact: 01/29/2007

Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 11/08/2006

Date Data Arrived at EDR: 11/16/2006

Date Made Active in Reports: 12/12/2006

Number of Days to Update: 26

Source: Department of Environmental Quality

Telephone: 517-373-7074

Last EDR Contact: 10/16/2006

Next Scheduled EDR Contact: 01/15/2007

Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

Date of Government Version: 09/14/2006

Date Data Arrived at EDR: 09/15/2006

Date Made Active in Reports: 10/19/2006

Number of Days to Update: 34

Source: DEPT. OF ENVIRONMENTAL QUALITY

Telephone: 517-373-9541

Last EDR Contact: 12/11/2006

Next Scheduled EDR Contact: 03/12/2007

Data Release Frequency: Semi-Annually

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

Date Data Arrived at EDR: 02/08/2005

Date Made Active in Reports: 08/04/2005

Number of Days to Update: 177

Source: USGS

Telephone: 202-208-3710

Last EDR Contact: 11/10/2006

Next Scheduled EDR Contact: 02/05/2007

Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 61

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 08/24/2006
Date Data Arrived at EDR: 09/11/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 58

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Semi-Annually

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005
Date Data Arrived at EDR: 01/21/2005
Date Made Active in Reports: 02/28/2005
Number of Days to Update: 38

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 09/06/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 63

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/11/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 58

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/06/2006
Date Data Arrived at EDR: 10/04/2006
Date Made Active in Reports: 11/08/2006
Number of Days to Update: 35

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/17/2006
Next Scheduled EDR Contact: 02/19/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 08/24/2006	Source: EPA Region 4
Date Data Arrived at EDR: 09/11/2006	Telephone: 404-562-9424
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 9
Date Data Arrived at EDR: 10/04/2006	Telephone: 415-972-3368
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 09/11/2006	Source: EPA Region 10
Date Data Arrived at EDR: 09/11/2006	Telephone: 206-553-2857
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 58	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R5: 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: 11/17/2006
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 08/30/2006	Source: EPA Region 8
Date Data Arrived at EDR: 09/06/2006	Telephone: 303-312-6137
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Quarterly

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 08/28/2006	Source: EPA Region 6
Date Data Arrived at EDR: 08/29/2006	Telephone: 214-665-7591
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 71	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Semi-Annually

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 09/07/2006	Source: EPA, Region 1
Date Data Arrived at EDR: 09/08/2006	Telephone: 617-918-1313
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 61	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 09/06/2006	Source: EPA Region 7
Date Data Arrived at EDR: 10/04/2006	Telephone: 913-551-7003
Date Made Active in Reports: 11/08/2006	Last EDR Contact: 11/17/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 02/19/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/17/2006
Date Made Active in Reports: 04/07/2006
Number of Days to Update: 49

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/13/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/29/2006
Next Scheduled EDR Contact: 02/26/2007
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 12/11/2006
Next Scheduled EDR Contact: 03/12/2007
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources
Telephone: 517-241-2254

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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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

FLINT WEST PARKING LOTS - AREAS H, J & M
GLENWOOD AVENUE/STEVENSON STREET
FLINT, MI 48504

TARGET PROPERTY COORDINATES

Latitude (North):	43.01220 - 43° 0' 43.9"
Longitude (West):	83.7027 - 83° 42' 9.7"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	279739.0
UTM Y (Meters):	4765499.5
Elevation:	721 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	43083-A6 FLINT NORTH, MI
Most Recent Revision:	1975
South Map:	42083-H6 FLINT SOUTH, MI
Most Recent Revision:	1975

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).

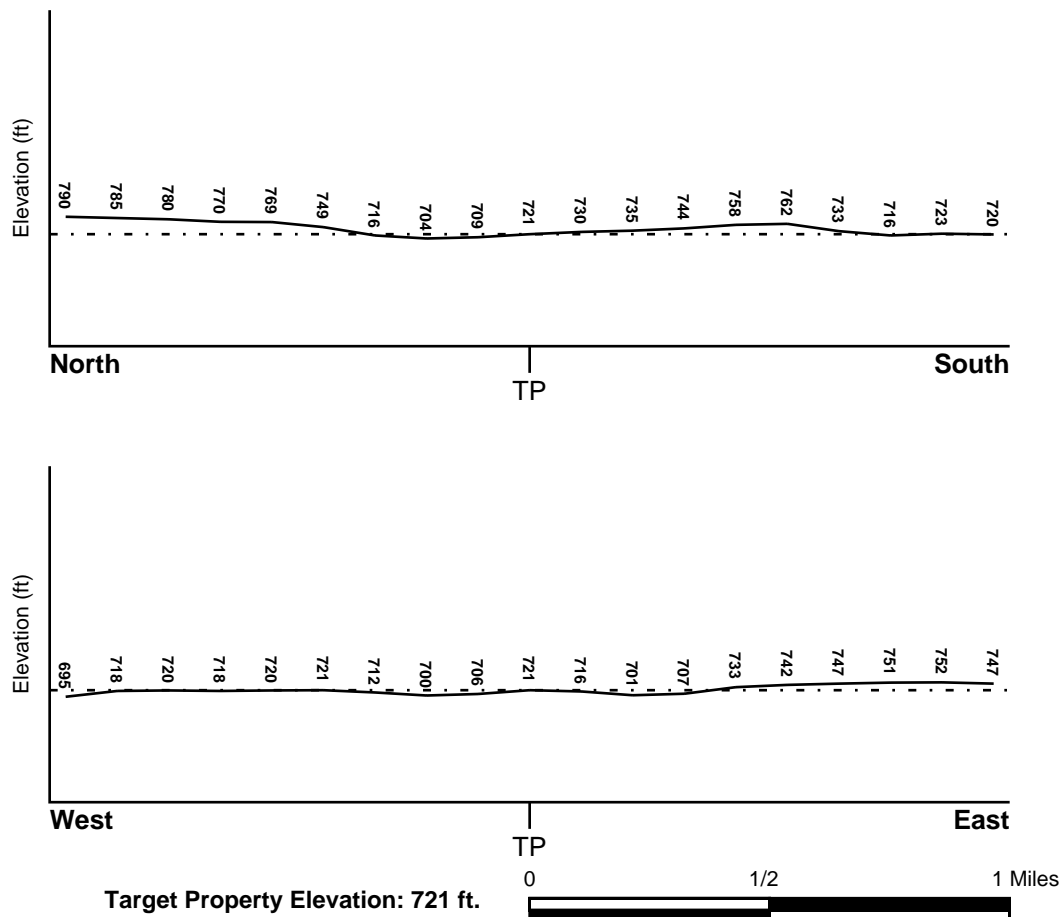
TOPOGRAPHIC INFORMATION

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 NNE

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>	<u>FEMA Flood</u>
GENESEE, MI	<u>Electronic Data</u>
	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property:	2600760005C
---------------------------------------	-------------

Additional Panels in search area:	2600760010C
	2600760020C
	2600760015C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic</u>
FLINT NORTH	<u>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</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
1	1/4 - 1/2 Mile East	NE
5	1/4 - 1/2 Mile SE	Not Reported
A6	1/4 - 1/2 Mile NNE	SW
10	1/4 - 1/2 Mile ENE	W
B17	1/2 - 1 Mile NE	Not Reported
18	1/2 - 1 Mile NNE	S
22	1/2 - 1 Mile ESE	SW

* ©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

<u>MAP ID</u>	<u>LOCATION</u>	<u>GENERAL DIRECTION</u>
24	<u>FROM TP</u>	<u>GROUNDWATER FLOW</u>
	1/2 - 1 Mile SE	N

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

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: BROOKSTON

Soil Surface Texture: loam

Hydrologic Group: Class B/D - Drained/undrained hydrology class of soils that can be drained and are classified.

Soil Drainage Class: Very poorly. Soils are wet to the surface most of the time. Depth to water table is less than 1 foot, or is ponded.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 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	14 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	14 inches	46 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
3	46 inches	66 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

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: sandy loam
muck
loamy sand
fine sandy loam
fine sand

Surficial Soil Types: sandy loam
muck
loamy sand
fine sandy loam
fine sand

Shallow Soil Types: sandy loam
loamy sand
sandy clay loam

Deeper Soil Types: sandy loam
muck
gravelly - sand
clay loam
fine sand
stratified
sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

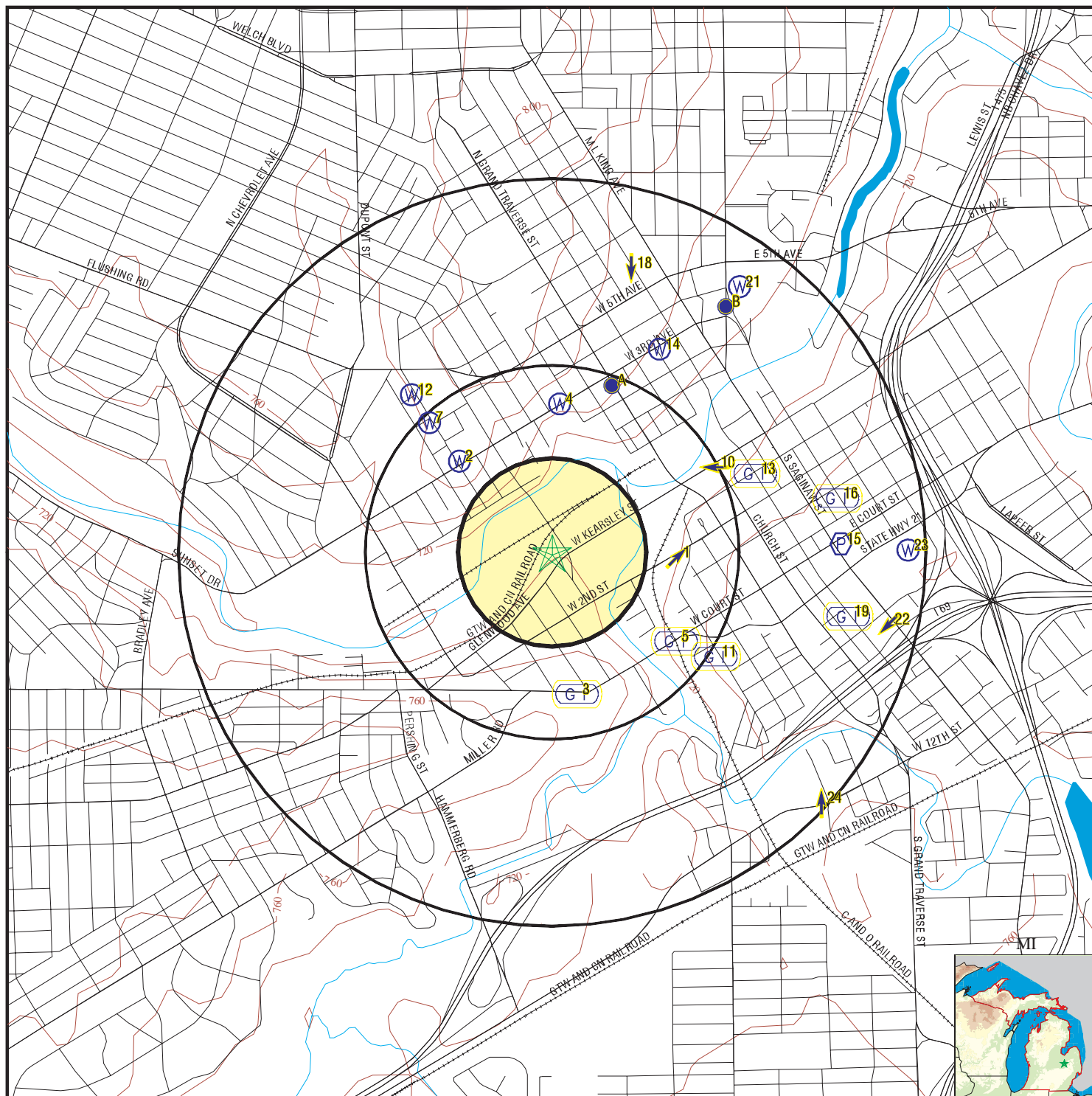
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
15	MI0005136	1/2 - 1 Mile East

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>
2	MI20068177	1/4 - 1/2 Mile NW
4	MI20068172	1/4 - 1/2 Mile North
7	MI20068176	1/4 - 1/2 Mile NW
A8	MI20068173	1/4 - 1/2 Mile NNE
12	MI20068171	1/2 - 1 Mile NW
14	MI20068174	1/2 - 1 Mile NNE
B20	MI20068175	1/2 - 1 Mile NE
21	MI20068383	1/2 - 1 Mile NE
23	MI20068444	1/2 - 1 Mile East

PHYSICAL SETTING SOURCE MAP - 1815927.10s



- County Boundary
- Major Roads
- Contour Lines
- 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: Flint West Parking Lots - Areas H, J & M
 ADDRESS: Glenwood Avenue/Stevenson Street
 Flint MI 48504
 LAT/LONG: 43.0122 / 83.7027

CLIENT: Blasland, Bouck & Lee
 CONTACT: Lauren Alkidas
 INQUIRY #: 1815927.10s
 DATE: December 12, 2006 5:49 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1	Site ID:	250179		
East	Groundwater Flow:	NE	AQUIFLOW	28307
1/4 - 1/2 Mile	Shallowest Water Table Depth:	8		
Lower	Deepest Water Table Depth:	18		
	Average Water Table Depth:	Not Reported		
	Date:	05/1995		

2			MI WELLS	MI20068177
NW				
1/4 - 1/2 Mile				
Higher				

Wellid:	25000001933	Import id:	25077613002
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	13
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	100		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		
Case depth:	100		
Screen frm:	80		
Screen to:	100		
Swl:	70		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0157299927		
Longitude:	-83.7075896893		
Methd coll:	I1		
Elevation:	770		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	777	Elev dif:	7
Elev miv:	770	Aq code:	D
Aq flag:	Not Reported	Pct aq:	26
Pct aq d:	26	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	65
Pct cm d:	65	Pct cm r:	0
Pct pcm:	9	Pct pcm d:	9
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	30	A pct aq:	87
A pct maq:	0	A pct pcm:	7
A pct cm:	7	A pct na:	0
A thickns2:	30	A pct aq2:	87

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	7
A pct cm2:	7	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	W/Gravel	A sc lmaq1:	AQ
A sc lpct1:	90	A sc lith2:	Clay
A sc lmod2:	Silty	A sc lmaq2:	CM
A sc lpct2:	10	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	40	Pct maq 4:	0
Pct cm 4:	15	Pct pcm 4:	45
Pct na 4:	0	Pct aq 5:	90
Pct maq 5:	0	Pct cm 5:	10
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	30		
Hcond2:	86.66674		
Vcond2:	.00136		
T2:	2600.0022		
D50plek:	129.13401		

4
North
1/4 - 1/2 Mile
Higher

MI WELLS MI20068172

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	25000001928	Import id:	25077612002
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	12
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	92		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		
Case depth:	92		
Screen frm:	76		
Screen to:	92		
Swl:	45		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0179490194		
Longitude:	-83.7022951537		
Methd coll:	I1		
Elevation:	750		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	745	Elev dif:	5
Elev miv:	750	Aq code:	D
Aq flag:	Not Reported	Pct aq:	60
Pct aq d:	60	Pct aq r:	0
Pct maq:	29	Pct maq d:	29
Pct maq r:	0	Pct cm:	11
Pct cm d:	11	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	47	A pct aq:	43
A pct maq:	57	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	47	A pct aq2:	43
A pct maq2:	57	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Silt
A sc lmod1:	Not Reported	A sc lmaq1:	MAQ
A sc lpct1:	69	A sc lith2:	Sand
A sc lmod2:	Silty	A sc lmaq2:	MAQ
A sc lpct2:	31	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	75
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	47		
Hcond2:	46.19149		
Vcond2:	3.67188		
T2:	2171		
D50plek:	170.48802		

5 SE 1/4 - 1/2 Mile Higher	Site ID: 250409 Groundwater Flow: Not Reported Shallowest Water Table Depth: 7 Deepest Water Table Depth: Not Reported Average Water Table Depth: Not Reported Date: 07/10/1991	AQUIFLOW 28232
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A6 NNE 1/4 - 1/2 Mile Higher	Site ID: 0-005200 Groundwater Flow: SW Shallowest Water Table Depth: 37 Deepest Water Table Depth: 40 Average Water Table Depth: Not Reported Date: 11/28/1997	AQUIFLOW 34588
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7 NW 1/4 - 1/2 Mile Higher		MI WELLS MI20068176
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Wellid: 25000001932 County: Genesee Town range: 07N 06E Owner name: CITY OF FLINT, MICHIGAN Well depth: 96 Well type: *OTH Wssn: 0 Well num: Not Reported Const date: 1981-09-17 00:00:00.000 Case dia: 12	Import id: 25077613001 Township: Flint Section: 13 Well addr: Not Reported Driller id: 1467 Case type: *U
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	96		
Screen frm:	84		
Screen to:	96		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0172211561		
Longitude:	-83.7091694481		
Methd coll:	I1		
Elevation:	760		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	2
Elev dem:	758	Elev dif:	2
Elev miv:	760	Aq code:	D
Aq flag:	Not Reported	Pct aq:	25
Pct aq d:	25	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	68
Pct cm d:	68	Pct cm r:	0
Pct pcm:	7	Pct pcm d:	7
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Clay
A sc lmod1:	Not Reported	A sc lmaq1:	CM
A sc lpct1:	67	A sc lith2:	Sand
A sc lmod2:	Wet/Moist	A sc lmaq2:	AQ
A sc lpct2:	25	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	75
Pct pcm 3:	25	Pct na 3:	0
Pct aq 4:	90	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	10
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

A8
NNE
1/4 - 1/2 Mile
Higher

MI WELLS MI20068173

Wellid:	25000001929	Import id:	25077612003
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	12
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	83		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		
Case depth:	78		
Screen frm:	66		
Screen to:	78		
Swl:	61		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0188571389		
Longitude:	-83.6997107034		
Methd coll:	I1		
Elevation:	745		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	741	Elev dif:	4
Elev miv:	745	Aq code:	D
Aq flag:	Not Reported	Pct aq:	94
Pct aq d:	94	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	6	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	17	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	17	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	75
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

10
ENE
1/4 - 1/2 Mile
Lower

Site ID: 250142
Groundwater Flow: W
Shallowest Water Table Depth: Not Reported
Deepest Water Table Depth: Not Reported
Average Water Table Depth: 12
Date: 10/31/1994

AQUIFLOW 34534

12
NW
1/2 - 1 Mile
Higher

MI WELLS MI20068171

Wellid:	25000001927	Import id:	25077612001
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	12
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	106		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	1981-09-22 00:00:00.000	Case type:	*U
Case dia:	12		
Case depth:	106		
Screen frm:	90		
Screen to:	106		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0183047645		
Longitude:	-83.7101209983		
Methd coll:	I1		
Elevation:	750		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	2
Elev dem:	758	Elev dif:	8
Elev miv:	750	Aq code:	D
Aq flag:	Not Reported	Pct aq:	8
Pct aq d:	8	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	70
Pct cm d:	70	Pct cm r:	0
Pct pcm:	23	Pct pcm d:	23
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0

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A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Hardpan
A sc lmod1:	Not Reported	A sc lmaq1:	CM
A sc lpct1:	56	A sc lith2:	Sand
A sc lmod2:	Wet/Moist	A sc lmaq2:	AQ
A sc lpct2:	44	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	75	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	40
Pct maq 5:	0	Pct cm 5:	15
Pct pcm 5:	45	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

14
NNE
1/2 - 1 Mile
Higher

MI WELLS MI20068174

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	25000001930	Import id:	25077612004
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	12
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	72		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		
Case depth:	72		
Screen frm:	60		
Screen to:	72		
Swl:	54		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0200701997		
Longitude:	-83.6970249137		
Methd coll:	I1		
Elevation:	735		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	735	Elev dif:	0
Elev miv:	735	Aq code:	D
Aq flag:	Not Reported	Pct aq:	49
Pct aq d:	49	Pct aq r:	0
Pct maq:	40	Pct maq d:	40
Pct maq r:	0	Pct cm:	11
Pct cm d:	11	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	18	A pct aq:	0
A pct maq:	100	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	18	A pct aq2:	0
A pct maq2:	100	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand Clay Gravel
A sc lmod1:	Coarse	A sc lmaq1:	MAQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	60
Pct maq 1:	0	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	15
Pct maq 3:	85	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0

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Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	18		
Hcond2:	2		
Vcond2:	2		
T2:	36		
D50plek:	1.37026		

15

East
1/2 - 1 Mile
Higher

FRDS PWS MI0005136

PWS ID:	MI0005136	PWS Status:	Not Reported
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	OXFORD VILLAGE APARTMENTS OXFORD VILLAGE APARTMENTS 2911 SEYMOUR LAKE RD, APT #E-4 OXFORD, MI 48371		

Addressee / Facility: Not Reported

Facility Latitude:	43 00 45	Facility Longitude:	083 41 15
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	92

PWS currently has or had major violation(s) or enforcement: Yes

VIOLATIONS INFORMATION:

Violation ID:	9410001	Source ID:	Not Reported	PWS Phone:	Not Reported
Vio. beginning Date:	12/01/93	Vio. end Date:	12/31/93	Vio. Period:	001 Months
Num required Samples:	Not Reported	Number of Samples Taken:	Not Reported		
Analysis Result:	Not Reported	Maximum Contaminant Level:	Not Reported		
Analysis Method:	Not Reported				
Violation Type:	Monitoring, Repeat Minor (TCR)				
Contaminant:	COLIFORM (TCR)				
Vio. Awareness Date:	Not Reported				

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE APARTMENTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0010009		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	OXFORD VILLAGE APARTMENTS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	1999-10-19 - 2015-12-31		
Violation ID:	0010009		
Enforcement Date:	Not Reported	Enf. Action:	Not Reported
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2001 0:00:00 - 10/31/2001 0:00:00		
Violation ID:	1000102		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2001 0:00:00 - 10/31/2001 0:00:00		
Violation ID:	1000102		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2001 0:00:00 - 10/31/2001 0:00:00		
Violation ID:	1000102		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2001 0:00:00 - 10/31/2001 0:00:00		
Violation ID:	1000102		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	10/1/2001 0:00:00 - 10/31/2001 0:00:00		
Violation ID:	1000102		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	10/19/1999 0:00:00 - 8/6/2001 0:00:00		
Violation ID:	1000900		
Enforcement Date:	8/6/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2/1/2000 0:00:00 - 2/29/2000 0:00:00		
Violation ID:	2000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice

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ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2/1/2000 0:00:00 - 2/29/2000 0:00:00		
Violation ID:	2000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2/1/2000 0:00:00 - 2/29/2000 0:00:00		
Violation ID:	2000100		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	2/1/2000 0:00:00 - 2/29/2000 0:00:00		
Violation ID:	2000100		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	5/4/2001 0:00:00	Enf. Action:	State Admin Penalty Assessed
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	5/4/2001 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	5/4/2001 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	6/26/2001 0:00:00	Enf. Action:	State Public Notif Received

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ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2001 0:00:00 - 3/31/2001 0:00:00		
Violation ID:	2000101		
Enforcement Date:	7/11/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2000 0:00:00 - 3/31/2000 0:00:00		
Violation ID:	2000200		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2000 0:00:00 - 3/31/2000 0:00:00		
Violation ID:	2000200		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2000 0:00:00 - 3/31/2000 0:00:00		
Violation ID:	2000200		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	3/1/2000 0:00:00 - 3/31/2000 0:00:00		
Violation ID:	2000200		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 4/30/2000 0:00:00		
Violation ID:	3000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 4/30/2000 0:00:00		
Violation ID:	3000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 4/30/2000 0:00:00		
Violation ID:	3000100		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	4/1/2000 0:00:00 - 4/30/2000 0:00:00		
Violation ID:	3000100		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	5/1/2000 0:00:00 - 5/31/2000 0:00:00		
Violation ID:	3000200		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	5/1/2000 0:00:00 - 5/31/2000 0:00:00		
Violation ID:	3000200		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	5/1/2000 0:00:00 - 5/31/2000 0:00:00		
Violation ID:	3000200		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	5/1/2000 0:00:00 - 5/31/2000 0:00:00		
Violation ID:	3000200		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	3000300		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	3000300		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	3000300		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2000 0:00:00 - 6/30/2000 0:00:00		
Violation ID:	3000300		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued

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ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Admin Penalty Assessed
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	8/2/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2001 0:00:00 - 6/30/2001 0:00:00		
Violation ID:	3000401		
Enforcement Date:	8/2/2001 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 7/31/2000 0:00:00		
Violation ID:	4000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 7/31/2000 0:00:00		
Violation ID:	4000100		
Enforcement Date:	10/27/2000 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 7/31/2000 0:00:00		
Violation ID:	4000100		
Enforcement Date:	8/22/2000 0:00:00	Enf. Action:	State Compliance Achieved

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2000 0:00:00 - 7/31/2000 0:00:00		
Violation ID:	4000100		
Enforcement Date:	11/28/2000 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	8/2/2001 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	7/1/2001 0:00:00 - 7/31/2001 0:00:00		
Violation ID:	4000101		
Enforcement Date:	7/25/2001 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	1/24/2002 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	8/1/2001 0:00:00	Enf. Action:	State Admin Penalty Assessed
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	8/1/2001 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	8/1/2001 0:00:00 - 8/31/2001 0:00:00		
Violation ID:	4000202		
Enforcement Date:	8/1/2001 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2001 0:00:00 - 9/30/2001 0:00:00		
Violation ID:	4000401		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Admin Penalty Assessed
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2001 0:00:00 - 9/30/2001 0:00:00		
Violation ID:	4000401		
Enforcement Date:	11/20/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2001 0:00:00 - 9/30/2001 0:00:00		
Violation ID:	4000401		
Enforcement Date:	1/24/2002 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2001 0:00:00 - 9/30/2001 0:00:00		
Violation ID:	4000401		
Enforcement Date:	1/29/2002 0:00:00	Enf. Action:	State Formal NOV Issued

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Repeat Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	9/1/2001 0:00:00 - 9/30/2001 0:00:00		
Violation ID:	4000401		
Enforcement Date:	2/21/2002 0:00:00	Enf. Action:	State Compliance Meeting Conducted
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2000 0:00:00 - 8/6/2001 0:00:00		
Violation ID:	4000900		
Enforcement Date:	8/6/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	CCR Complete Failure to Report		
Contaminant:	7000		
Compliance Period:	7/1/2001 0:00:00 - 8/6/2001 0:00:00		
Violation ID:	4000901		
Enforcement Date:	8/6/2001 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00		
Violation ID:	4001003		
Enforcement Date:	1/13/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00		
Violation ID:	4001003		
Enforcement Date:	1/8/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00		
Violation ID:	4001003		
Enforcement Date:	1/8/2003 0:00:00	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00		
Violation ID:	4001003		
Enforcement Date:	2/26/2003 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	4001103		
Enforcement Date:	7/14/2003 0:00:00	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	4001103		
Enforcement Date:	7/14/2003 0:00:00	Enf. Action:	State Public Notif Requested

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ENFORCEMENT INFORMATION:

System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	4001103		
Enforcement Date:	7/14/2003 0:00:00	Enf. Action:	State Public Notif Received
System Name:	OXFORD VILLAGE CONDOMINIUMS		
Violation Type:	MCL, Monthly (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	6/1/2003 0:00:00 - 6/30/2003 0:00:00		
Violation ID:	4001103		
Enforcement Date:	7/14/2003 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	OXFORD VILLAGE APARTMENTS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1994-07-01 - 1994-07-31		
Violation ID:	9440001		
Enforcement Date:	1994-10-03	Enf. Action:	State Violation/Reminder Notice
System Name:	OXFORD VILLAGE APARTMENTS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1994-07-01 - 1994-07-31		
Violation ID:	9440001		
Enforcement Date:	1994-10-06	Enf. Action:	State Public Notif Requested
System Name:	OXFORD VILLAGE APARTMENTS		
Violation Type:	Monitoring, Routine Major (TCR)		
Contaminant:	COLIFORM (TCR)		
Compliance Period:	1994-07-01 - 1994-07-31		
Violation ID:	9440001		
Enforcement Date:	1994-11-11	Enf. Action:	State Public Notif Received

CONTACT INFORMATION:

Name:	OXFORD VILLAGE CONDOMINIUMS	Population:	80
Contact:	FREILICH, SY	Phone:	248-698-9500
Address:	10635 Highland Road		
	WHITE LAKE, MI 48386		

B17 NE 1/2 - 1 Mile Higher	Site ID:	0401911140	AQUIFLOW	28228
	Groundwater Flow:	Not Reported		
	Shallowest Water Table Depth:	3		
	Deepest Water Table Depth:	4		
	Average Water Table Depth:	Not Reported		
	Date:	09/1990		

18 NNE 1/2 - 1 Mile Higher	Site ID:	250276	AQUIFLOW	28371
	Groundwater Flow:	S		
	Shallowest Water Table Depth:	0		
	Deepest Water Table Depth:	4.8		
	Average Water Table Depth:	Not Reported		
	Date:	05/1994		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B20
NE
1/2 - 1 Mile
Higher

MI WELLS

MI20068175

Wellid:	25000001931	Import id:	25077612005
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	12
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	66		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		
Case depth:	66		
Screen frm:	54		
Screen to:	66		
Swl:	53		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0221262886		
Longitude:	-83.6936347798		
Methd coll:	I1		
Elevation:	735		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	Not Reported
Elev dem:	725	Elev dif:	10
Elev miv:	735	Aq code:	D
Aq flag:	Not Reported	Pct aq:	88
Pct aq d:	88	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	12
Pct cm d:	12	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	13	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	13	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	60
Pct maq 1:	0	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	13		
Hcond2:	100		
Vcond2:	100		
T2:	1300		
D50plek:	28.99854		

**21
NE
1/2 - 1 Mile
Higher**

MI WELLS MI20068383

Wellid:	25000002140	Import id:	25077707002
County:	Genesee	Township:	Flint
Town range:	07N 06E	Section:	7
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	76		
Well type:	*OTH		
Wssn:	0		
Well num:	Not Reported	Driller id:	1332
Const date:	Not Reported	Case type:	*U
Case dia:	12		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	76		
Screen frm:	64		
Screen to:	76		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.0224916249		
Longitude:	-83.6927960635		
Methd coll:	I1		
Elevation:	730		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	2
Elev dem:	728	Elev dif:	2
Elev miv:	730	Aq code:	D
Aq flag:	Not Reported	Pct aq:	22
Pct aq d:	22	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	64
Pct cm d:	64	Pct cm r:	0
Pct pcm:	13	Pct pcm d:	13
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	50	A sc lith2:	Sand & Gravel
A sc lmod2:	Coarse	A sc lmaq2:	AQ
A sc lpct2:	25	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	50
Pct pcm 1:	50	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	40
Pct maq 3:	0	Pct cm 3:	60
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	N	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Hcond2:	0		
Vcond2:	0		
T2:	0		
D50plek:	0		

22
ESE
1/2 - 1 Mile
Higher

Site ID: 250457
Groundwater Flow: SW
Shallowest Water Table Depth: 14
Deepest Water Table Depth: 45
Average Water Table Depth: Not Reported
Date: 03/31/1992

AQUIFLOW 34490

23
East
1/2 - 1 Mile
Higher

MI WELLS MI20068444

Wellid:	25000002202	Import id:	25077718001
County:	Genesee	Township:	Burton
Town range:	07N 07E	Section:	18
Owner name:	CITY OF FLINT, MICHIGAN	Well addr:	Not Reported
Well depth:	85		
Well type:	TESTW		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	1943-05-06 00:00:00.000	Case type:	*U
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	*U
Grout:	1	Pmp cpcity:	0
Latitude:	43.012286712		
Longitude:	-83.6838995113		
Methd coll:	I1		
Elevation:	750		
Elev methd:	T1	Depth flag:	Not Reported
Elev flag:	Not Reported	Swl flag:	2
Elev dem:	748	Elev dif:	2
Elev miv:	750	Aq code:	R
Aq flag:	Not Reported	Pct aq:	29
Pct aq d:	17	Pct aq r:	100
Pct maq:	7	Pct maq d:	8
Pct maq r:	0	Pct cm:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	7	Pct cm r:	0
Pct pcm:	35	Pct pcm d:	42
Pct pcm r:	0	Pct na:	22
Pct na d:	26	Pct na r:	0
Pct flag:	Not Reported	Rock top:	72
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	30	Pct cm 1:	0
Pct pcm 1:	70	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	5	Pct pcm 2:	0
Pct na 2:	95	Pct aq 3:	30
Pct maq 3:	0	Pct cm 3:	20
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	R		
Hit swl:	F		
Athk2:	0		
Hcond2:	.26763		
Vcond2:	.00079		
T2:	13.9165		
D50plek:	1.63065		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

**24
SE
1/2 - 1 Mile
Higher**

Site ID: 250092
Groundwater Flow: N
Shallowest Water Table Depth: 4.3
Deepest Water Table Depth: 5.2
Average Water Table Depth: Not Reported
Date: 11/01/1993

AQUIFLOW 34437

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	48504	0	5/8/88	0.7	27.9%		
Random	48504	0	1/21/88	1.0	21.7%		
Random	48504	0	5/20/87	1.2	16.3%		
Random	48504	0	12/9/87	1.3	14.4%		
Random	48504	0	6/24/88	1.5	15.2%		
Random	48504	0	5/22/87	5.6	6.6%		

State Database: MI Radon

Radon Test Results

Zip	Less than sign	Pci/L
48504		1.30
48504		1.90
48504		1.80
48504	<	0.30
48504	<	0.30
48504		2.10
48504		0.80
48504		0.50
48504		3.90
48504		0.70
48504		3.30
48504		1.60
48504		0.80
48504	<	0.30
48504		1.80
48504		5.50
48504		5.50
48504	<	0.30
48504		0.60
48504		1.60
48504		2.50
48504		4.20
48504		1.40
48504		0.80
48504		4.40
48504		3.00
48504	<	0.30
48504		1.30
48504		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

		0.50
48504		2.60
48504		1.10
48504		0.50
48504		0.60
48504		1.50
48504		3.20
48504		1.60
48504		1.60
48504		6.40
48504		1.20
48504		0.50
48504		2.70
48504		1.40
48504		0.80
48504	<	0.30
48504		0.70
48504		2.40
48504		0.70
48504	<	0.30
48504		2.00
48504	<	0.30
48504		2.40
48504		0.70
48504	<	0.30

Federal EPA Radon Zone for GENESEE County: 2

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: 48504

Number of sites tested: 4

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.150 pCi/L	75%	25%	0%

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 and 2005 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^R 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.

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

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 IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

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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Appendix E

Historical Information



EDR® Environmental
Data Resources Inc

The EDR-City Directory *Abstract*

Flint West Parking Lots - Areas H, J & M
1200 Glenwood Avenue
Flint, MI 48504

Inquiry Number: 1815927.14

Friday, December 15, 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

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report 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.

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 1905 through 2006. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: December 15, 2006

Target Property:

1200 Glenwood Avenue
Flint, MI 48504

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1905	Address Not Listed in Research Source	Polk's City Directory
1912	Address Not Listed in Research Source	Polk's City Directory
1918	Address Not Listed in Research Source	Polk's City Directory
1923	Address Not Listed in Research Source	Polk's City Directory
1927	Address Not Listed in Research Source	Polk's City Directory
1932	Address Not Listed in Research Source	Polk's City Directory
1937	Address Not Listed in Research Source	Polk's City Directory
1942	Address Not Listed in Research Source	Polk's City Directory
1947	Address Not Listed in Research Source	Polk's City Directory
1952	Address Not Listed in Research Source	Polk's City Directory
1956	Address Not Listed in Research Source	Polk's City Directory
1961	Address Not Listed in Research Source	Polk's City Directory
1966	Address Not Listed in Research Source	Polk's City Directory
1971	Address Not Listed in Research Source	Polk's City Directory
1976	Address Not Listed in Research Source	Polk's City Directory
1981	Address Not Listed in Research Source	Polk's City Directory
1986	Address Not Listed in Research Source	Polk's City Directory
1991	Address Not Listed in Research Source	Bresser's Criss-Cross Directory
1996	Address Not Listed in Research Source	Bresser's Criss-Cross Directory
2001	Address Not Listed in Research Source	Bresser's Criss-Cross Directory
2006	Address Not Listed in Research Source	Polk's City Directory

Year Uses

Source

Adjoining Properties

SURROUNDING

Multiple Addresses
Flint, MI 48504

Year Uses

Source

1905	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Address not listed in research source (1202)	Polk's City Directory
	Address not listed in research source (1206)	Polk's City Directory
	Address not listed in research source (1207)	Polk's City Directory
	Address not listed in research source (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Address not listed in research source (1210)	Polk's City Directory
	Address not listed in research source (1211)	Polk's City Directory
	Address not listed in research source (1214)	Polk's City Directory
	Address not listed in research source (1215)	Polk's City Directory
	Address not listed in research source (1219)	Polk's City Directory
	Address not listed in research source (1220)	Polk's City Directory
	Address not listed in research source (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-All Addresses on Glenwood Avenue Renumbered	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Address not listed in research source (414)	Polk's City Directory
	Address not listed in research source (415)	Polk's City Directory
1912	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Address not listed in research source (1202)	Polk's City Directory
	Address not listed in research source (1206)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1912	Address not listed in research source (1207)	Polk's City Directory
	Address not listed in research source (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Address not listed in research source (1210)	Polk's City Directory
	Address not listed in research source (1211)	Polk's City Directory
	Address not listed in research source (1214)	Polk's City Directory
	Address not listed in research source (1215)	Polk's City Directory
	Address not listed in research source (1219)	Polk's City Directory
	Address not listed in research source (1220)	Polk's City Directory
	Address not listed in research source (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-All Addresses on Glenwood Avenue Renumbered	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Address not listed in research source (414)	Polk's City Directory
	Address not listed in research source (415)	Polk's City Directory
1918	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Address not listed in research source (1202)	Polk's City Directory
	Farah & Khouri (grocers) (1206)	Polk's City Directory
	Address not listed in research source (1207)	Polk's City Directory
	Address not listed in research source (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Farah & Khouri (grocers) (1210)	Polk's City Directory
	Residence (1211)	Polk's City Directory
	Henry Klinkman (tailor) (1214)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1918	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Address not listed in research source (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1206 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Martin Apartments (414)	Polk's City Directory
	Ernest Wells (cigars) (414)	Polk's City Directory
	Brady Orville (barber) (414)	Polk's City Directory
1923	Address not listed in research source (415)	Polk's City Directory
	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Boyer-Pe-Gan-Kelley Co. (plmbrs.) (1206)	Polk's City Directory
	Frank Fileccia (shoe repair) (1207)	Polk's City Directory
	John Williams (gro) (1208)	Polk's City Directory
	Otis Higgins (restaurant) (1209)	Polk's City Directory
	Vacant (1210)	Polk's City Directory
	Residence (1211)	Polk's City Directory
	Residence (1214)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Address not listed in research source (1221)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1923	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Byrnes & Cooney (billiards) (414)	Polk's City Directory
	John Hopkins (barber) (414)	Polk's City Directory
	Theo Haney (drugs & gro) (415)	Polk's City Directory
1927	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	George Beavans (restaurant) (1206)	Polk's City Directory
	Tilly Cooper (clo. clnr.) (1207)	Polk's City Directory
	Residence (1208)	Polk's City Directory
	Gordon Nottingham (restaurant) (1209)	Polk's City Directory
	Frank Fileccia (shoe repair) (1211)	Polk's City Directory
	Residence (1214)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Address not listed in research source (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Chevrolet Cigar Store (414)	Polk's City Directory
	Theo Haney (drugs & gro) (415)	Polk's City Directory
1932	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1932	Martin Apartments (1202)	Polk's City Directory
	Vacant (1206)	Polk's City Directory
	C & D Cleaners (1207)	Polk's City Directory
	Vacant (1208)	Polk's City Directory
	Martin's Eat Shop (1209)	Polk's City Directory
	Frank Fileccia (shoe repair) (1211)	Polk's City Directory
	Joseph Dietrich (auto pntr.) (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	West Side Cleaners (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Chevrolet Cigar Store (414)	Polk's City Directory
	Theo Haney (drugs & gro) (415)	Polk's City Directory
1937	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Clayton Stroup (phys.) (1207)	Polk's City Directory
	James Bush (used furn.) (1208)	Polk's City Directory
	Mac's Beer & Wine Store (1209)	Polk's City Directory
	Frank Fileccia (shoe repair) (1211)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1937	Vacant (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Maurice Woodlinger (beer) (414)	Polk's City Directory
	William Mangrum (clo clnr) (415)	Polk's City Directory
1942	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	UAW of America Local 659 (1208)	Polk's City Directory
	Vacant (1209)	Polk's City Directory
	Salatore Fileccia (shoe repair) (1211)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Vacant (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Waddie's Beer Tavern (414)	Polk's City Directory
	Star Linen Service (415)	Polk's City Directory
1947	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	UAW of America Local 659 (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1947	Residence (1211)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Vernon Stewart (clo. clnr.) (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Leo Plamondon (tavern) (414)	Polk's City Directory
	John Dandaa (restaurant) (415)	Polk's City Directory
1952	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	UAW of America Local 659 (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Sam Alick (shoe repair) (1211)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Vacant (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Mac's Bar (tavern) (414)	Polk's City Directory
	John Damtas (restaurant) (415)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1956	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	UAW of America Local 659 (1208)	Polk's City Directory
	Cheve-Flint Federal Credit Union (1208)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Residence (1211)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Vacant (1219)	Polk's City Directory
	Residence (1220)	Polk's City Directory
	Vacant (1221)	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Mac's Bar (tavern) (414)	Polk's City Directory
	Victory Lunch (restaurant) (415)	Polk's City Directory
1961	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Vacant (1221)	Polk's City Directory
	UAW of America Local 659 (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1961	Mac's Bar (tavern) (414)	Polk's City Directory
	B & H (restaurant) (415)	Polk's City Directory
1966	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Vacant (1221)	Polk's City Directory
	UAW of America Local 659 (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	DJ Grill (tavern) (414)	Polk's City Directory
	Ruth Jones (restaurant) (415)	Polk's City Directory
1971	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Address not listed in research source (1209)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Apartments (1221)	Polk's City Directory
	Vacant (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	DJ Grill (414)	Polk's City Directory
	Vacant (415)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1976	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Camaro Lounge (1209)	Polk's City Directory
	Residence (1215)	Polk's City Directory
	Residence (1219)	Polk's City Directory
	Apartments (1221)	Polk's City Directory
	UAW Local 659 (mfg. unit) (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Lafferty's Lounge (restaurant) (414)	Polk's City Directory
	Vacant (415)	Polk's City Directory
1981	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory
	Camaro Lounge (1209)	Polk's City Directory
	Address not listed in research source (1215)	Polk's City Directory
	Apartments (1219)	Polk's City Directory
	Apartments (1221)	Polk's City Directory
	UAW Local 659 (mfg. unit) (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Lafferty's Lounge (restaurant) (414)	Polk's City Directory
	Vacant (415)	Polk's City Directory
1986	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Martin Apartments (1202)	Polk's City Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1986	Camaro Lounge (1209)	Polk's City Directory
	Address not listed in research source (1215)	Polk's City Directory
	Apartments (1219)	Polk's City Directory
	Apartments (1221)	Polk's City Directory
	UAW Local 659 (mfg. unit) (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Polk's City Directory
	<u>**ASYLUM**</u>	Polk's City Directory
	Lafferty's Lounge (restaurant) (414)	Polk's City Directory
	Vacant (415)	Polk's City Directory
1991	<u>**GLENWOOD AVENUE**</u>	Bresser's Criss-Cross Directory
	No Return (1202)	Bresser's Criss-Cross Directory
	Beaver Trap (1209)	Bresser's Criss-Cross Directory
	No Return (1215)	Bresser's Criss-Cross Directory
	No Return (1219)	Bresser's Criss-Cross Directory
	UAW (1222)	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Bresser's Criss-Cross Directory
1996	<u>**GLENWOOD AVENUE**</u>	Bresser's Criss-Cross Directory
	No Return (1202)	Bresser's Criss-Cross Directory
	The Trap Door Lounge (1209)	Bresser's Criss-Cross Directory
	No Return (1215)	Bresser's Criss-Cross Directory
	Residence (1219)	Bresser's Criss-Cross Directory
	UAW Local 659 (1222)	Bresser's Criss-Cross Directory
	Petty & Assoc. Svc. (1222)	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Before 1202 Glenwood Avenue	Bresser's Criss-Cross Directory

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2001	<u>**GLENWOOD AVENUE**</u>	Bresser's Criss-Cross Directory
	Property 109 (1209)	Bresser's Criss-Cross Directory
	Residence (1219)	Bresser's Criss-Cross Directory
	UAW Local 659 (1222)	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Before 1209 Glenwood Avenue	Bresser's Criss-Cross Directory
2006	<u>**GLENWOOD AVENUE**</u>	Polk's City Directory
	Residence (1219)	Polk's City Directory
	SPFPA (fraternal org.) (1222)	Polk's City Directory
	UAW (labor org.) (1222)	Polk's City Directory
	-No Other Addresses Listed Before 1219 Glenwood Avenue	Polk's City Directory
	-No Other Addresses Listed 1200-1300 Block Glenwood Avenue	Polk's City Directory



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Sanborn® Map Report

Ship To: Lauren Alkidas
Blasland, Bouck & Lee
10559 Citation Drive
Brighton, MI 48116

Order Date: 12/12/2006 **Completion Date:** 12/13/2006

Inquiry #: 1815927.11s

P.O. #: NA

Site Name: Flint West Parking Lots - Areas H J &

Address: Glenwood Avenue/Stevenson Street

City/State: Flint, MI 48504

Cross Streets:

Customer Project: 64443.204
1152387MEN 810-229-8594

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

1886 - 1 Map	1970 - 1 Map
1892 - 1 Map	
1898 - 1 Map	
1902 - 1 Map	
1909 - 2 Maps	
1914 - 2 Maps	
1928 - 1 Map	
1950 - 1 Map	

Limited Permission to Photocopy

Total Maps: 11

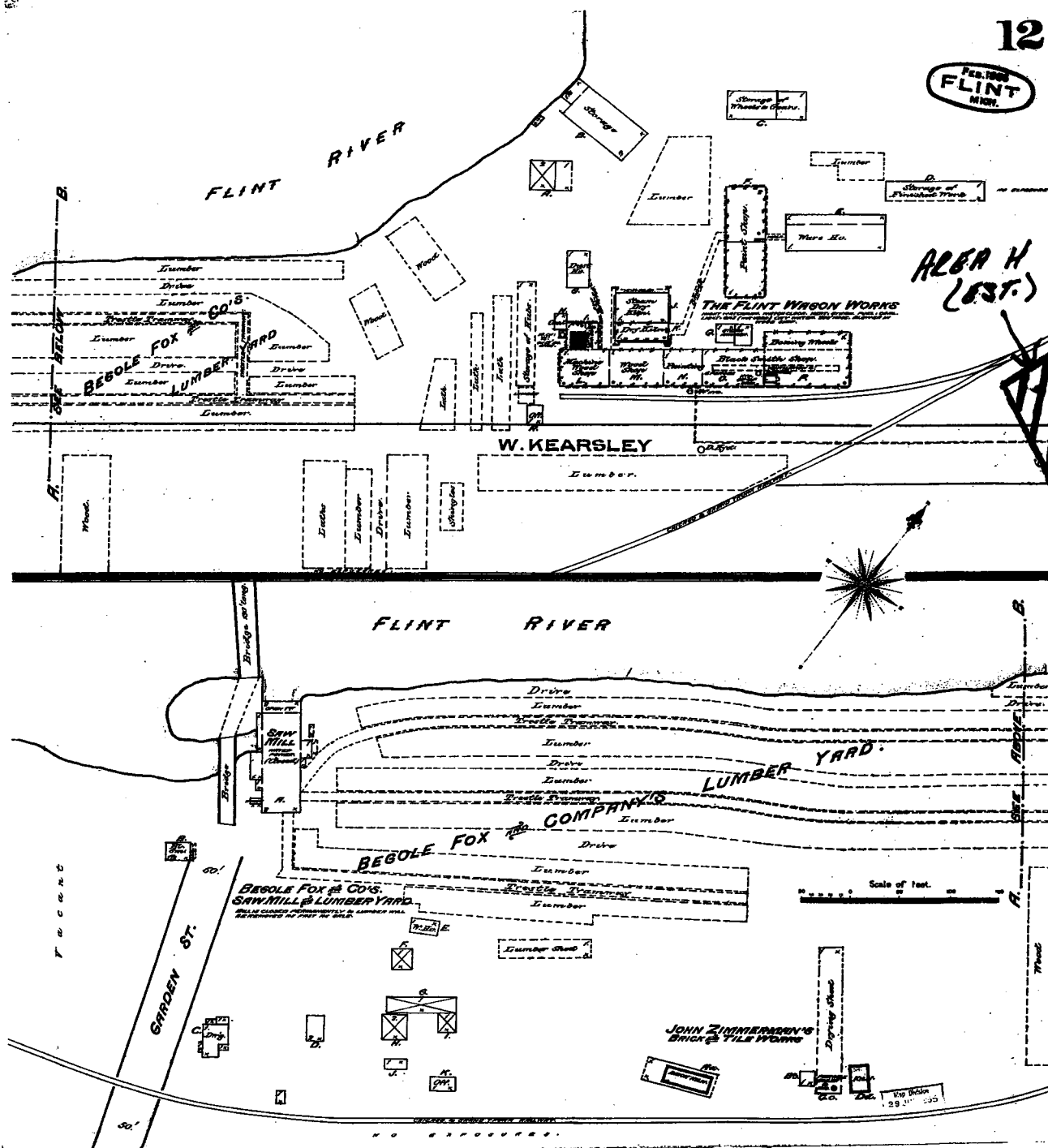
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12

FEB. 1898
FLINT
MICH.



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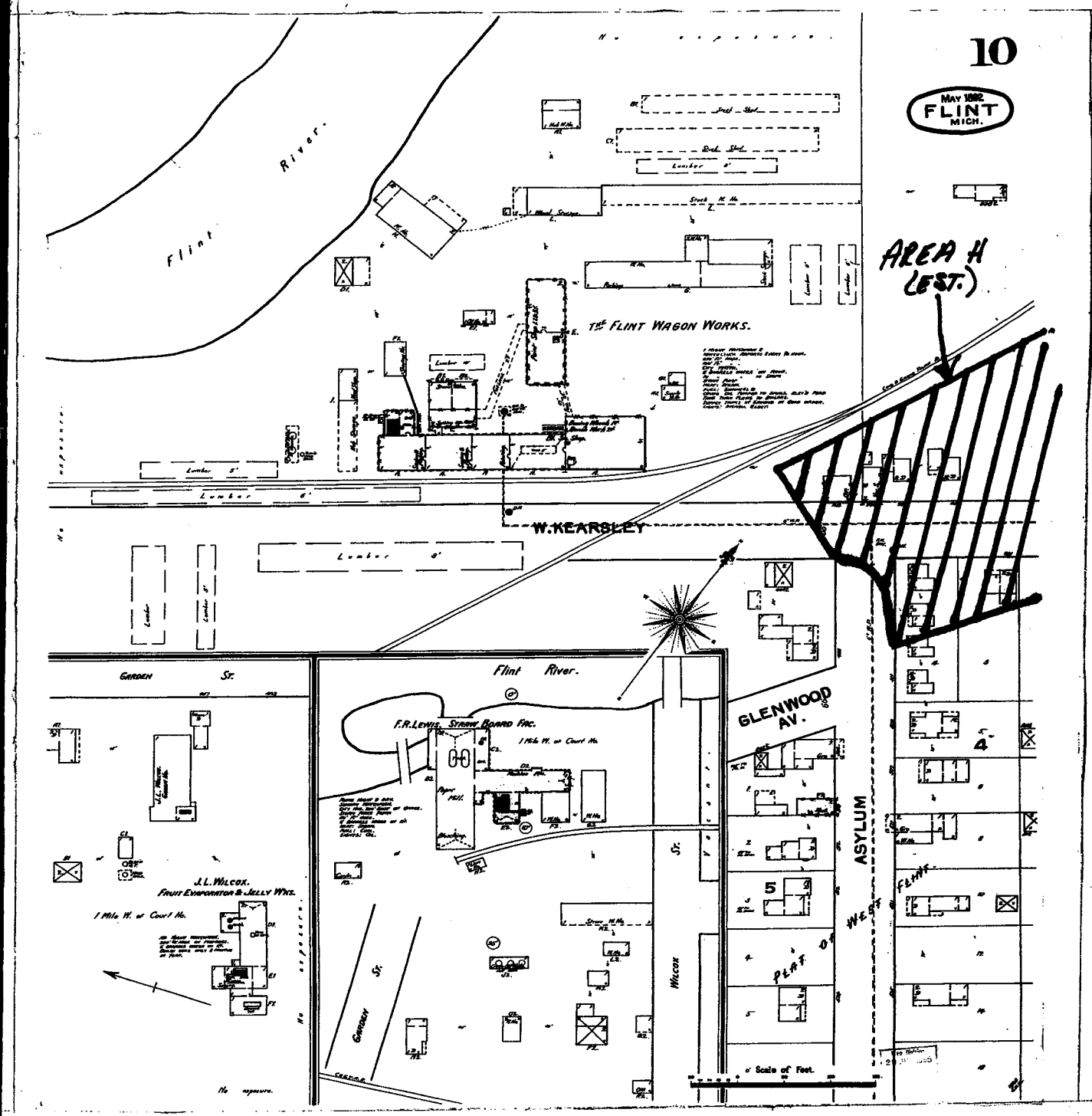
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Year EDM Research Associates

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10

MAY 1892
FLINT
MICH.

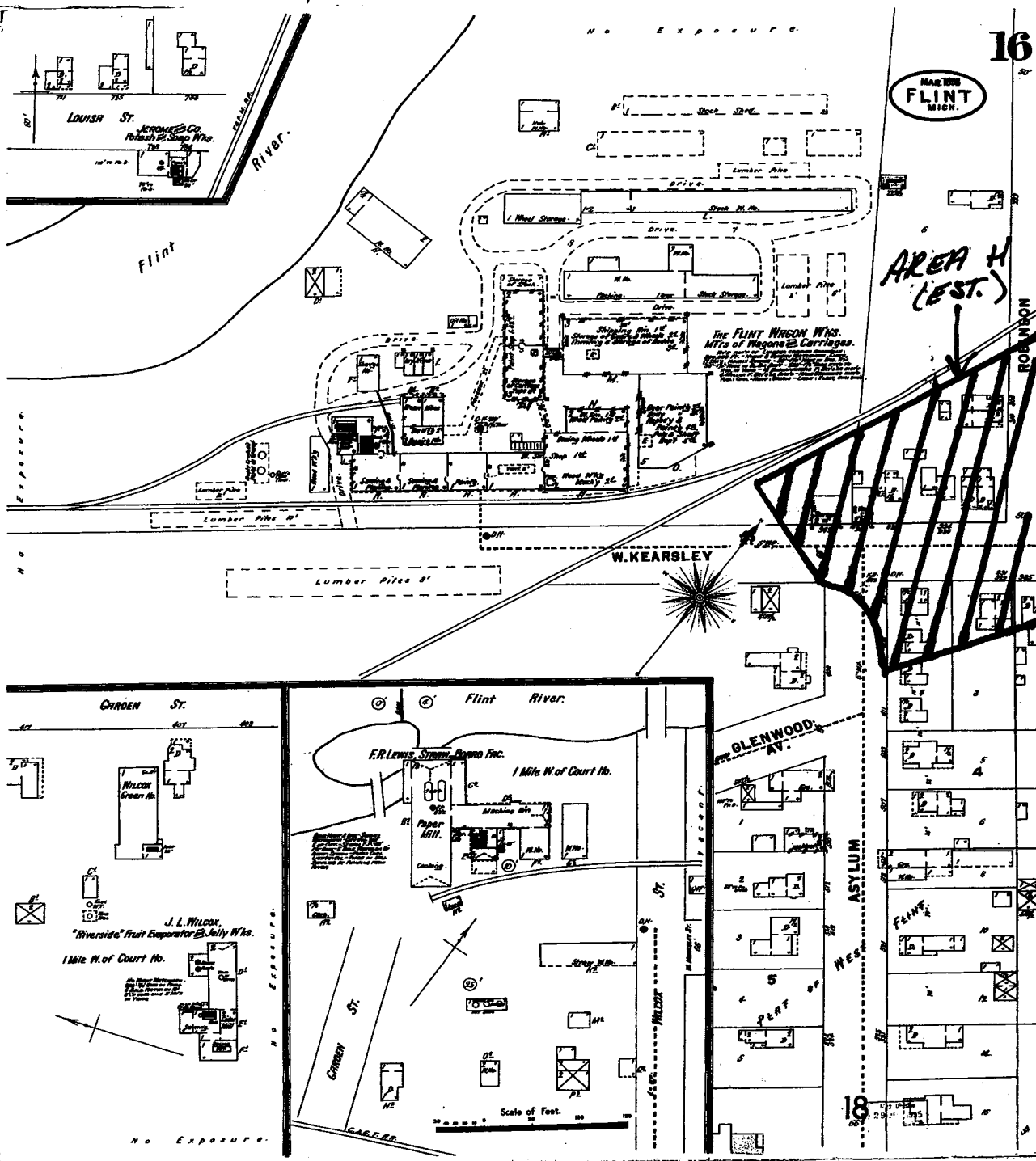
AREA H
(EST.)

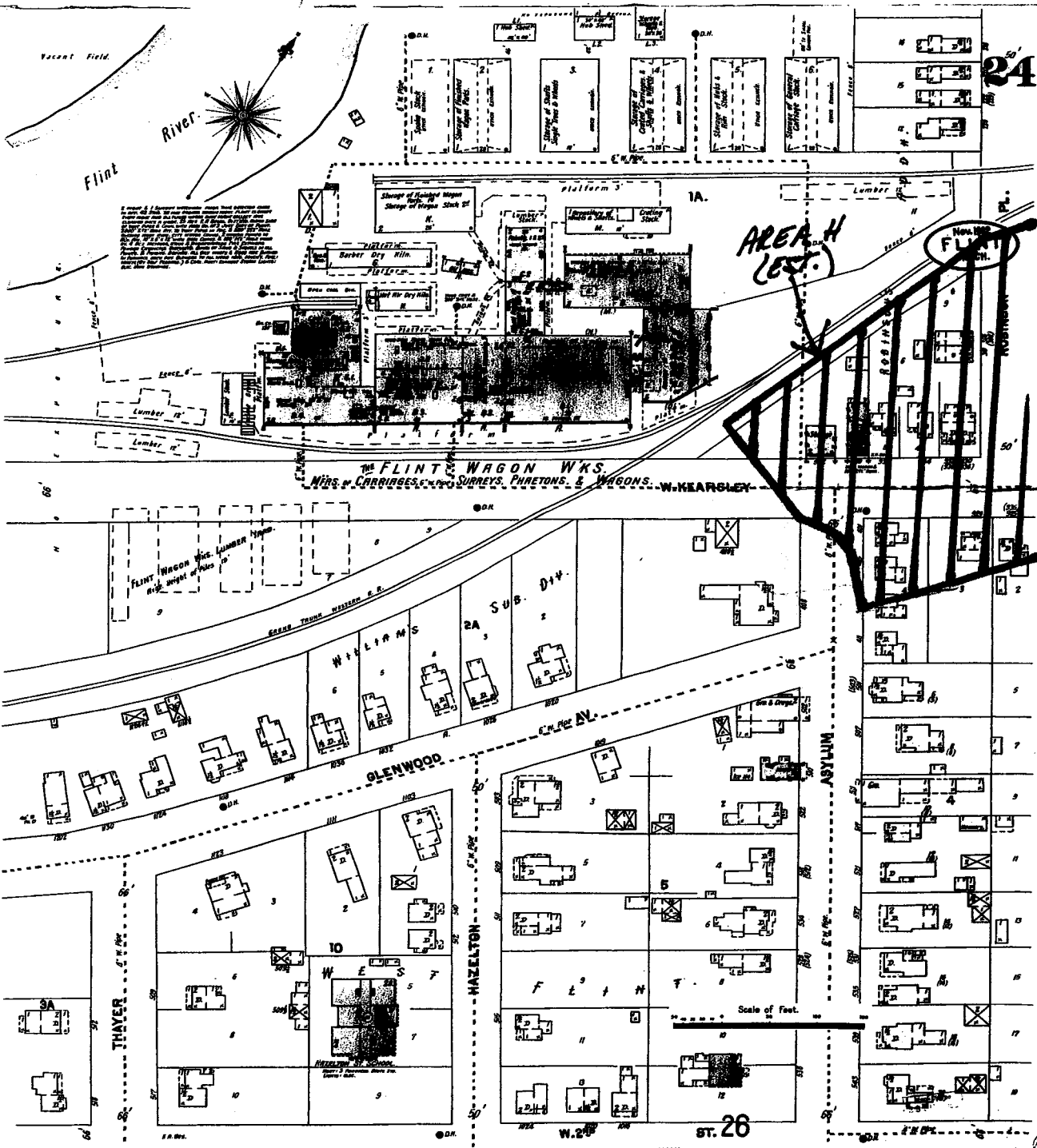


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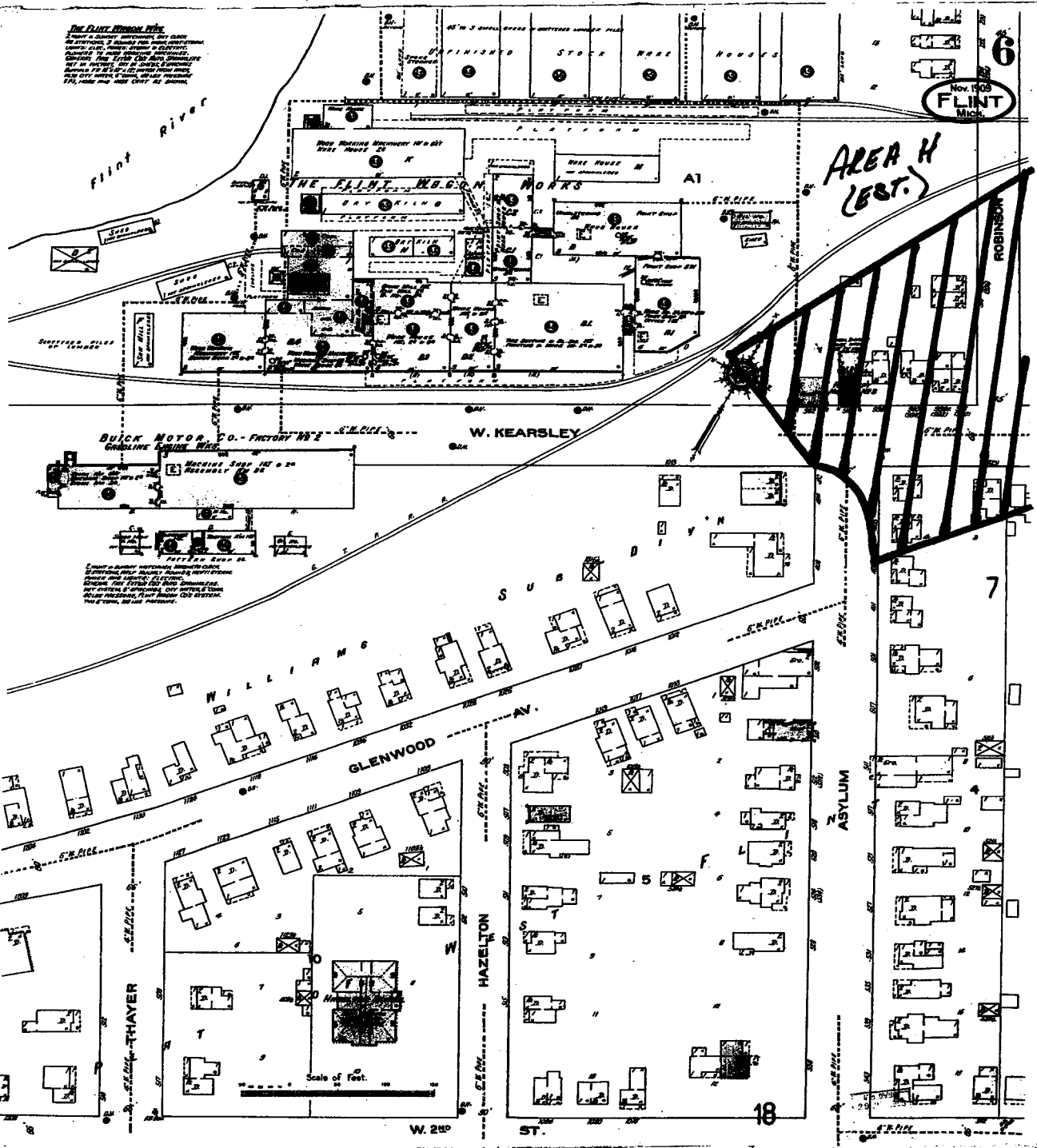




THE FLINT STEEL TYPE
 This is a plan of the Flint Steel Works, showing the layout of the buildings and the location of the Flint River. The plan is based on a photograph taken in 1909, and is intended to show the general layout of the works and the location of the Flint River. The plan is not a detailed drawing, and is intended to show the general layout of the works and the location of the Flint River.

Nov. 1909
FLINT
 Mich.

AREA H
(EST.)



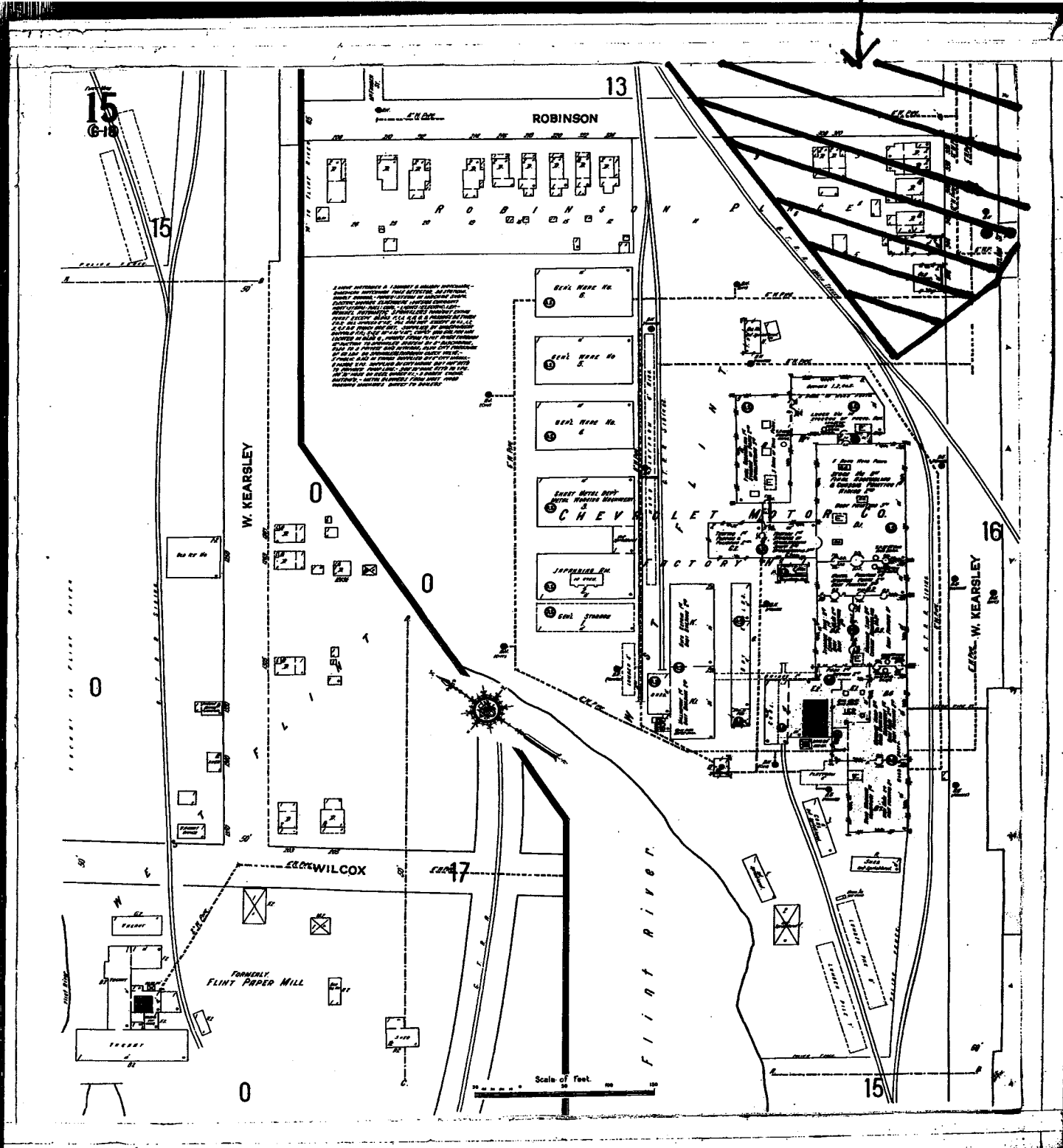
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AREA H
(E.S.T.)

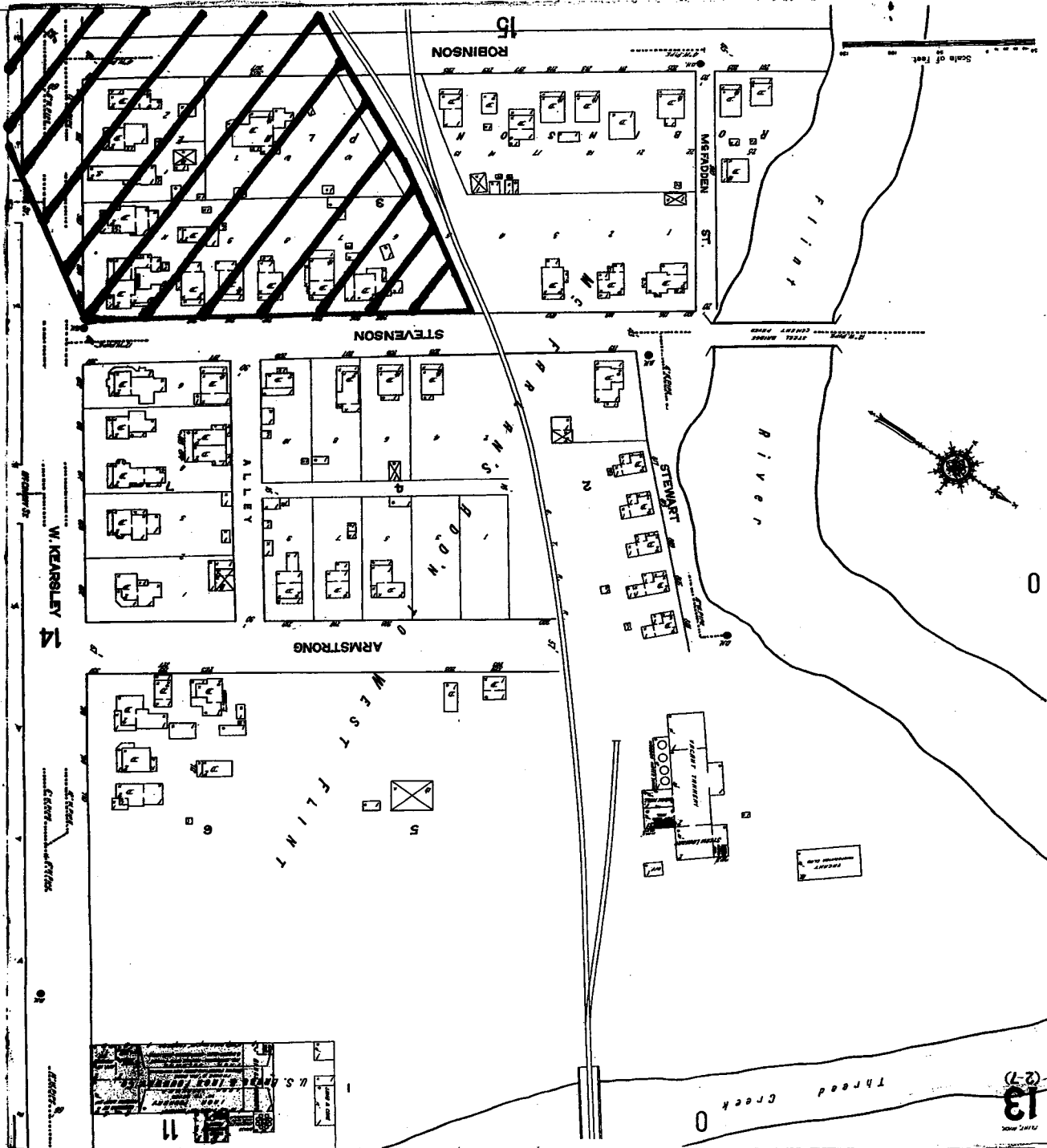


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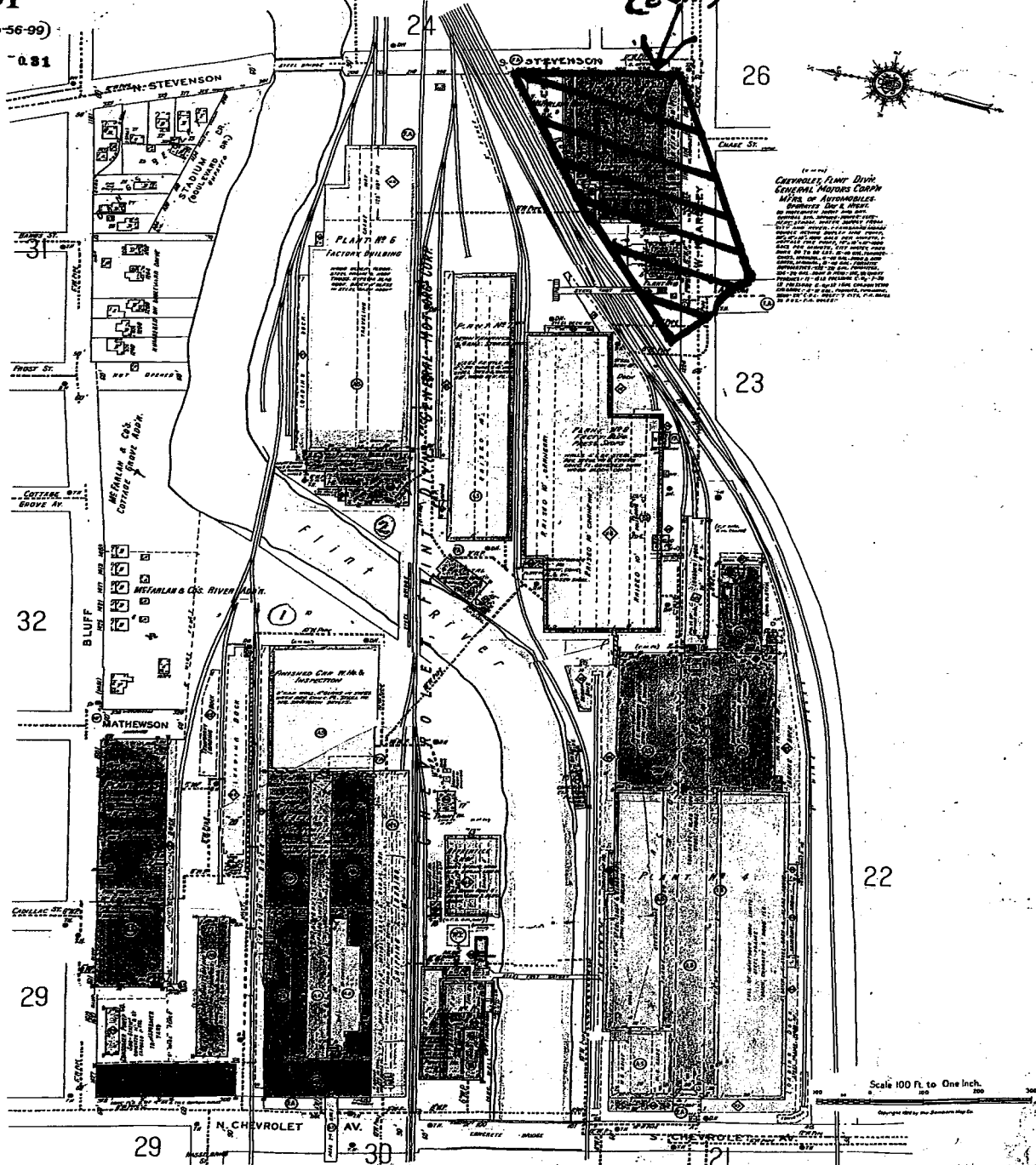
Dist.
PLANT, BACK VOL.

101

(13-15-55-56-99)

NICH 081

AREA H
(EST.)

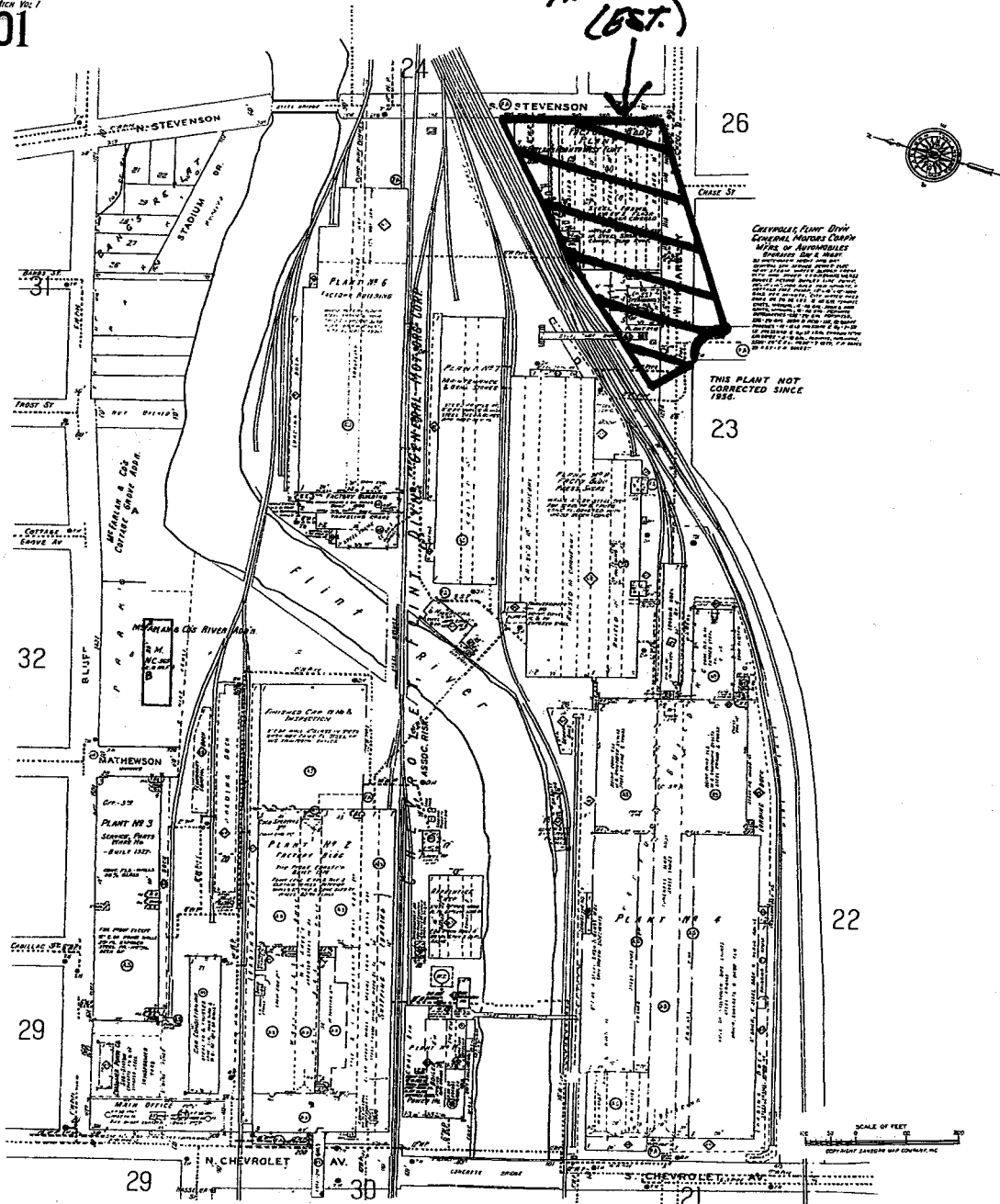


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EDR Historical Topographic Map Report

**Flint West Parking Lots - Areas H, J &
M**

**Glenwood Avenue/Stevenson Street
Flint, MI 48504**

Inquiry Number: 1815927.12

December 13, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

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

EDR Historical Topographic Map Report

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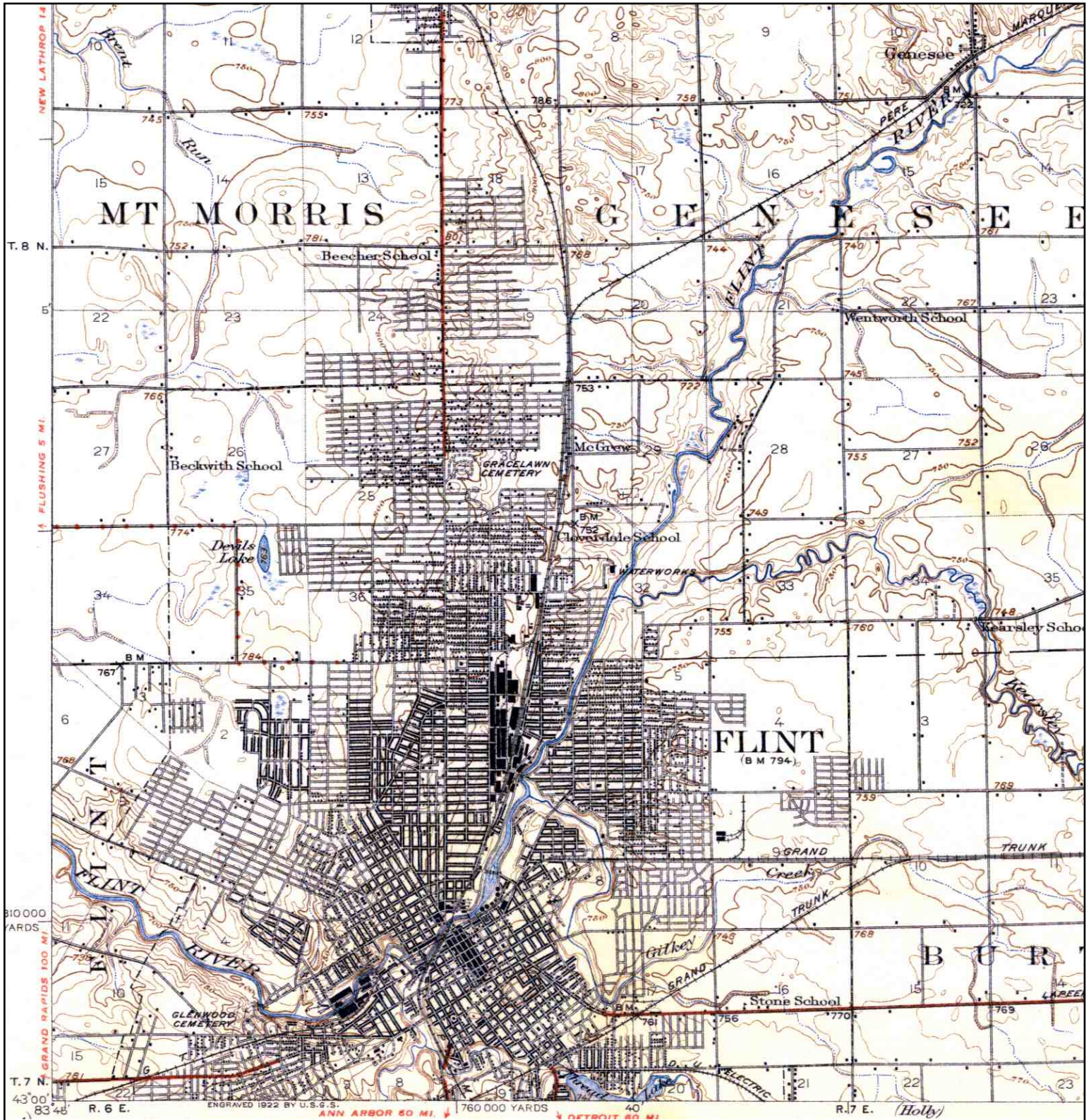
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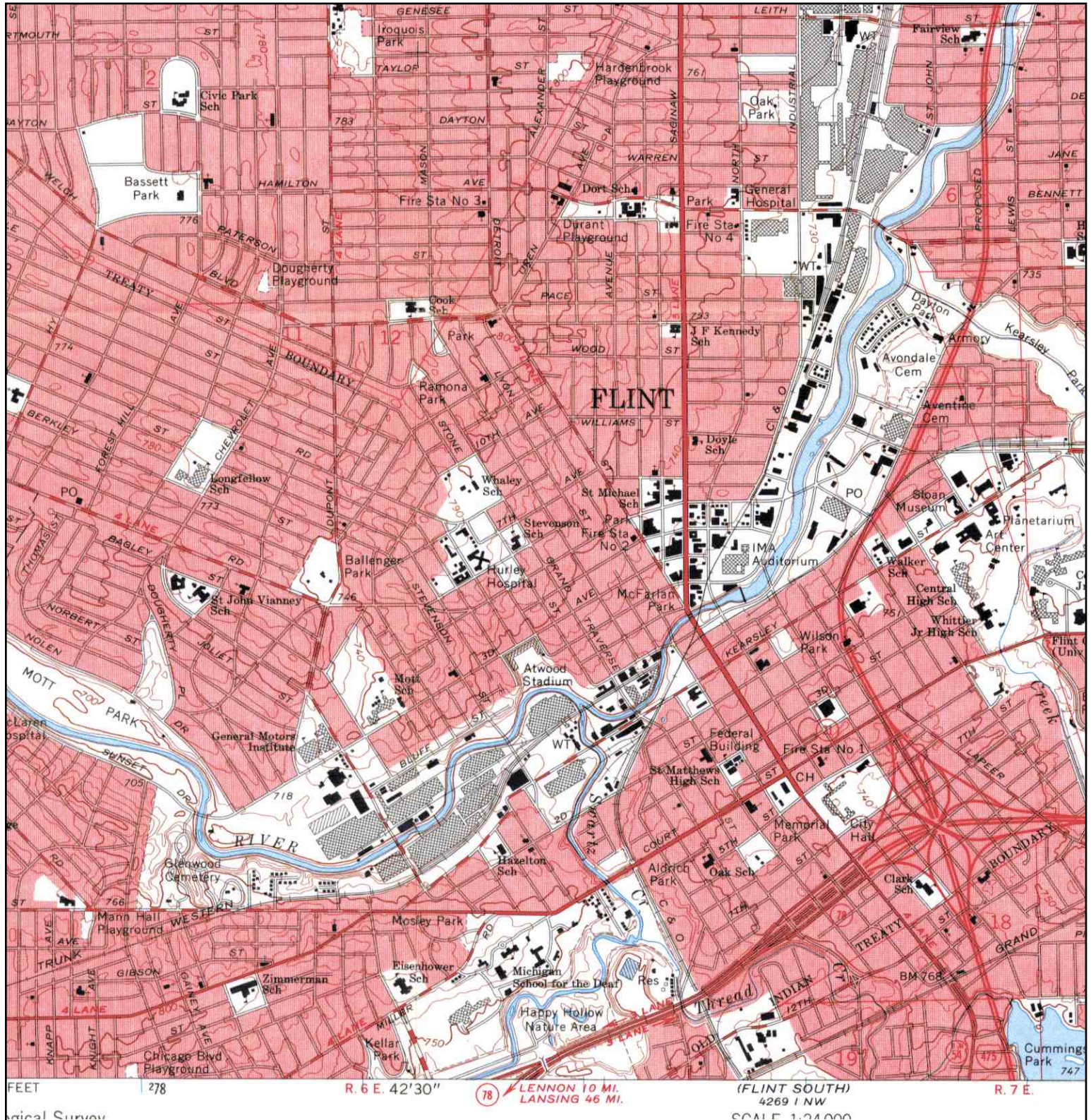
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Historical Topographic Map



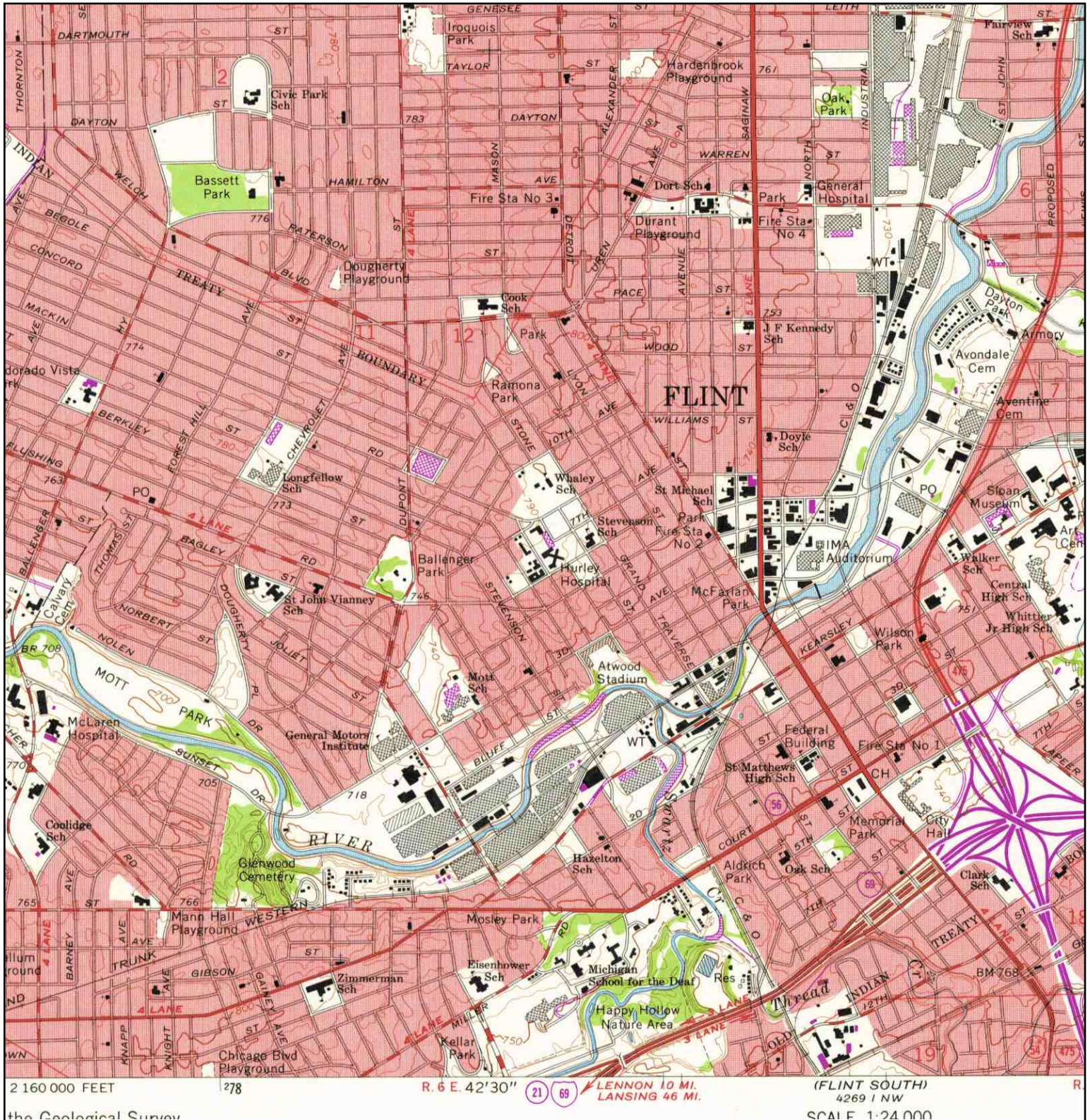
	TARGET QUAD	SITE NAME:	Flint West Parking Lots - Areas H, J & M	CLIENT:	Blasland, Bouck & Lee
	NAME: FLINT	ADDRESS:	Glenwood Avenue/Stevenson Street	CONTACT:	Lauren Alkidas
	MAP YEAR: 1922			INQUIRY#:	1815927.12
	SERIES: 15		Flint, MI 48504	RESEARCH DATE:	12/13/2006
	SCALE: 1:62500	LAT/LONG:	43.0122 / 83.7027		


Historical Topographic Map



<p>N</p> <p>↑</p>	<p>TARGET QUAD</p> <p>NAME: FLINT NORTH</p> <p>MAP YEAR: 1969</p> <p>SERIES: 7.5</p> <p>SCALE: 1:24000</p>	<p>SITE NAME: Flint West Parking Lots - Areas H, J & M</p> <p>ADDRESS: Glenwood Avenue/Stevenson Street</p> <p>FLINT, MI 48504</p> <p>LAT/LONG: 43.0122 / 83.7027</p>	<p>CLIENT: Blasland, Bouck & Lee</p> <p>CONTACT: Lauren Alkidas</p> <p>INQUIRY#: 1815927.12</p> <p>RESEARCH DATE: 12/13/2006</p>
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Historical Topographic Map



	TARGET QUAD	SITE NAME: Flint West Parking Lots - Areas H, J & M	CLIENT: Blasland, Bouck & Lee
	NAME: FLINT NORTH		
	MAP YEAR: 1975		
	PHOTOREVISED FROM: 1969		
	SERIES: 7.5		
	SCALE: 1:24000	ADDRESS: Glenwood Avenue/Stevenson Street	CONTACT: Lauren Alkidas
		Flint, MI 48504	INQUIRY#: 1815927.12
		LAT/LONG: 43.0122 / 83.7027	RESEARCH DATE: 12/13/2006



The EDR Aerial Photo Decade Package

**Flint West Parking Lots - Areas H, J &
Glenwood Avenue/Stevenson Street
Flint, MI 48504**

Inquiry Number: 1815927.13

December 15, 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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Date EDR Searched Historical Sources:

Aerial Photography December 15, 2006

Target Property:

Glenwood Avenue/Stevenson Street

Flint, MI 48504

<u><i>Year</i></u>	<u><i>Scale</i></u>	<u><i>Details</i></u>	<u><i>Source</i></u>
1941	Aerial Photograph. Scale: 1"=500'	Flight Year: 1941	AAA
1950	Aerial Photograph. Scale: 1"=500'	Flight Year: 1950	PMA
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	ASCS
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1982	Aerial Photograph. Scale: 1"=600'	Flight Year: 1982	ASCS
1992	Aerial Photograph. Scale: unknown	Flight Year: 1992 Best Copy Available from original source	FSA
1997	Aerial Photograph. Scale: unknown	Flight Year: 1997	FSA



INQUIRY #: 1815927.13

YEAR: 1941

| = 500'





INQUIRY #: 1815927.13

YEAR: 1950

| = 500'





INQUIRY #: 1815927.13

YEAR: 1964

| = 500'





INQUIRY #: 1815927.13

YEAR: 1972

| = 600'





INQUIRY #: 1815927.13

YEAR: 1982

| = 600'





INQUIRY #: 1815927.13

YEAR: 1992

| = unknown





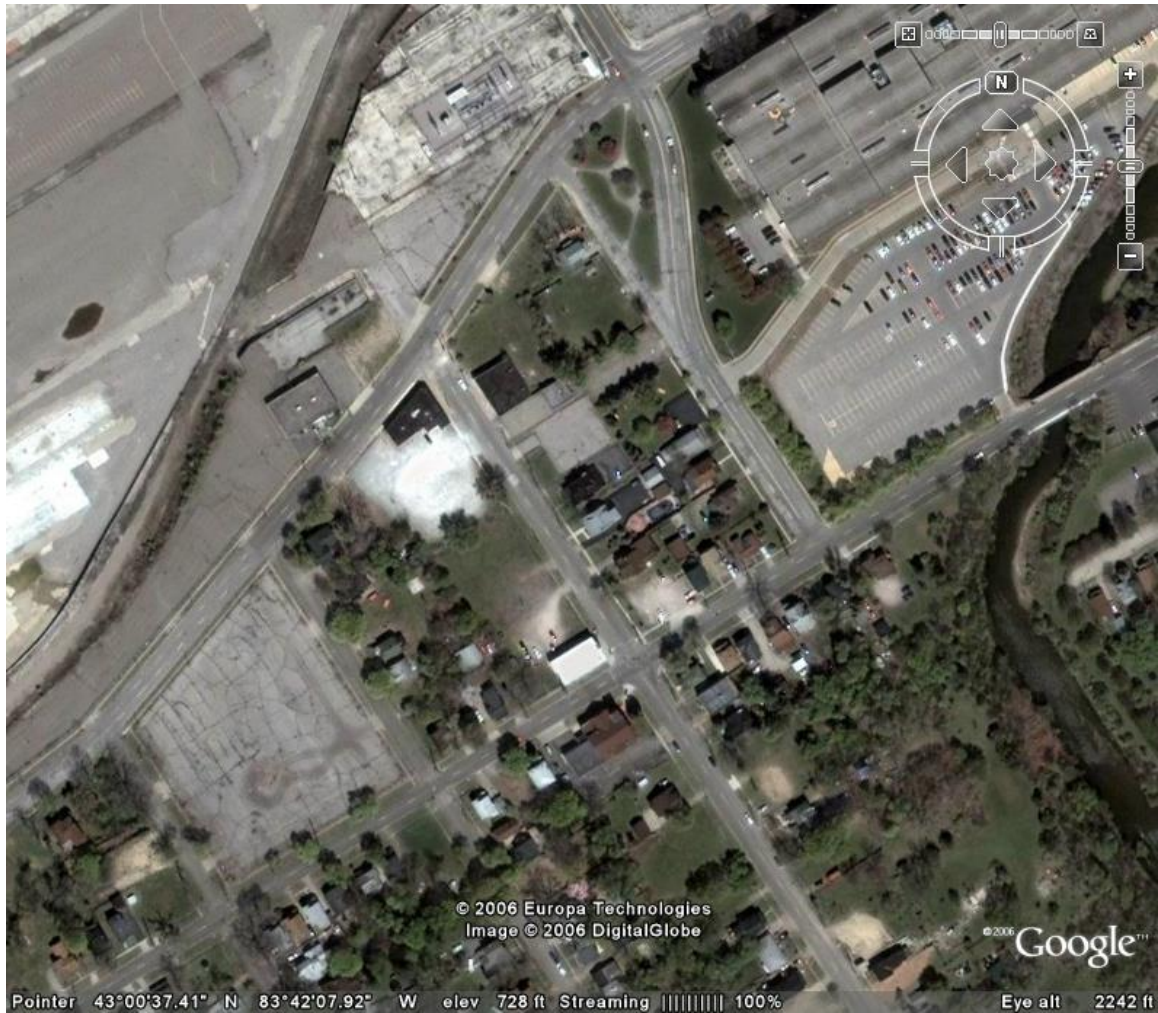
INQUIRY #: 1815927.13

YEAR: 1997

| = unknown



Recent Unknown Date Aerial (Google Earth Image) N ↑



Appendix F

Previous Reports

PREVIOUS REPORTS

The following report relevant to the adjoining Building 9 facility was reviewed, summarized, and referenced in the report by ARCADIS BBL:

1. Blasland, Bouck & Lee, Inc. (BBL), June 1997. *Phase I Environmental Site Assessment Building 9 Delphi-Flint West.*
2. BBL, June 1997. *Phase II Environmental Site Investigation Report, Building 9, Delphi-Flint West Facility.*
3. BBL, February 1998. *Supplemental Phase II Environmental Site Investigation, Building 9 Delphi-Flint West Facility.*
4. BBL, September 1998. *Baseline Environmental Site Assessment, Former Building 9 (Asylum Substation) Delphi-Flint West Facility.*

Appendix G

Assessor Resumes

Education

BS/Chemical Engineering,
Clarkson University, 1989

Years of Experience

With ARCADIS Since 1989

Professional Registrations

Engineer in Training, NY
Professional Engineer, MI

Professional Qualifications

- American Institute of Chemical Engineers
- National Brownfield Association - Michigan Chapter
- Strategic Management Association
- Engineering Society of Detroit

Derek C. Kaiding, PE

Senior Engineer II

Mr. Kaiding has nearly 18 years experience providing engineering and investigatory consulting to large industrial clients and PRPs involved in RCRA, CERCLA, and/or other state-governed regulatory compliance activities related to site investigation and remediation.

Experience

RCRA/HSWA and State Regulatory Compliance

:Confidential Client, Northeastern U.S.

1989-1999, Project Cost: \$10,000,000

Project manager/assistant project manager responsible for assisting a Confidential Client with a 250-acre industrial facility located in the northeastern United States. This facility was co-regulated by the USEPA and the home state's Department of Environmental Protection (DEP) pursuant to RCRA/HSWA and the home state's regulatory requirements, respectively. Investigations included 12 separate, but local and related sites.

As project manager/assistant project manager, assisted the client with RCRA/HSWA and home state regulatory requirements. Provided technical support to two years of settlement negotiations between the Confidential Client and several federal and home state government agencies regarding the overall Confidential Client facility and related sites. Support primarily involved feasibility evaluations of various remedial and source control alternatives being considered for soil and offsite migration of nonaqueous phase liquids (NAPLs).

Co-managed the design and implementation of remediation efforts involving removal and offsite disposal for more than 40,000 cubic yards of fill containing primarily Polychlorinated Biphenyls (PCBs) at a local elementary school property. Activities included the preparation and implementation of pre-design characterization efforts, remedial design work plan preparation, negotiation with the USEPA and the DEP, and technical support of remedial action activities.

Managed the preparation of design work plans for control of migration of light and dense non-aqueous phase liquid (LNAPL and DNAPL) for two separate areas of the facility. Activities primarily involved the management of groundwater modeling and the design of approximately 800 linear feet of sheetpile containment wall.

Authored and co-authored various interim remedial measure (IRM) and short-term measure (STM) proposals. Authored and co-authored numerous scopes of work (SOW)/RFI proposals. Authored and co-authored numerous RCRA current assessment summary reports.

Managed the performance of various RFI activities, including numerous investigations related to various constituents in groundwater, surface water, sediment, floodplain soil, air, and biota, as well as characterization of LNAPL and DNAPL extent.

Co-developed and implemented plans to address the presence of PCBs in floodplain soils along the river system adjacent to the facility as an STM under the home state's regulatory requirements. Tasks included topographic and land use mapping, revised HEC-2 hydraulic modeling (to assess the extent of potentially affected floodplain), sampling and analysis, and data interpretation/reporting.

Co-developed and implemented an RFI work plan for the river system adjacent to the facility involving water-column monitoring, sediment and floodplain sampling and analysis, review of naturally occurring rechannelization, and study of increased, enhanced river rechannelization and sedimentation.

Provided technical support for identifying coal tar constituents at the facility that involved the determination of the location of former gas manufacturing facilities, a literature review to identify coal tar contaminants, and a subsequent comparison of these constituents to site contaminants.

Co-developed and implemented a plan for sampling the surface water of the river system adjacent to the facility to assess the impact of contaminant transport during the replacement of a local dam, and provided on-site monitoring support during dam construction.

Prepared semiannual status reports for a velocity and sedimentation control pilot study for the river system adjacent to the facility.

Co-developed a feasibility study (FS) to present the potential impacts associated with the implementation of in-place containment, excavation, and disposal of 22,500 cubic yards of fill containing PCBs. The FS also presented potential impacts associated with excavation and incineration of the fill materials. Subsequently, provided follow-up assistance for the design of a cap to implement the agency-selected remedial option.

Coordinated and assisted the examination and diagnosis of corrosion-related deterioration of pumps and transmission lines of a wastewater treatment system located at the facility.

Managed the semiannual LNAPL monitoring program for portions of the facility. These activities included spring and fall groundwater-level and oil-thickness monitoring and evaluation involving more than 200 wells.

Assisted in the development of technical and other related plans associated with a Superfund (CERCLA) site located north of the facility. Technical plans included a groundwater treatment plan, site dewatering plan, and excavation plan. Other plans included a health and safety plan, site screening plan, and sampling and analysis plan. For the past few years, managed the semiannual groundwater monitoring program designed to monitor the performance of ongoing groundwater treatment process.

Development of Description of Current Situation Document Related to a Superfund RI/FS

Confidential Client, Southwestern Michigan

1991, Project Cost: \$250,000

Assisted in the development of a description of current situation document related to an RI/FS being conducted for a Superfund site in southwestern Michigan. Documentation included a summarization of a 35,000-page administrative record in addition to relevant technical and risk assessment PCB literature. Also assisted in the development of the RI/FS work plan and the field sampling plan.

Identification of Additional PRPs Related to a Former Metals Reclamation Facility

Confidential Client, New York

Mid-1990s, Project Cost: \$50,000

Provided technical support for identifying additional PRPs related to a former metals reclamation facility in New York State which is currently a Superfund site. The site received waste metals containing hazardous materials from various nearby businesses. Activities included the comparison of witness testimony regarding transported material to site contaminants to establish a basis for litigation.

Engineering Evaluation of the Thermal Incineration of Impacted Materials

Confidential Client, Various Locations

1990, Project Cost: \$30,000

Supported the performance of an engineering evaluation of the thermal incineration of impacted materials at numerous Superfund and industrial sites. Fluidized bed, rotary kiln, and infrared processes in both mobile and fixed-based designs were included. Support included the compilation of vendor-solicited information such as operating efficiencies, field rates and variability, costs, and permitting.

RCRA Consent Order Program, Voluntary Programs and/or Specific Home State Statutes

Confidential Client, Upper Midwest, U.S.

1991-Present, Project Cost: \$18,000,000

Program Manager/Project manager responsible for assisting a Confidential Client with multiple facilities located in the upper Midwest United States. These facilities encompass nearly 1,000 acres of former and existing manufacturing operations related to the auto industry. One of these facilities, comprising nearly one-half of the total area of former and existing operation, is covered under a Consent Order signed by the Confidential Client and the U.S. Environmental Protection Agency (USEPA), as well as a Memorandum of Understanding signed by the USEPA and the home state's Department of Environmental Quality. The Consent Order was issued pursuant to the Resource Conservation and Recovery Act (RCRA) of 1976, as amended by the Hazardous and Solid Waste Amendments (HSWA) of 1984.

Management efforts related to the RCRA Consent Order program have involved:

Assisting with negotiating the Consent Order. Designing and implementing programs to identify areas of interest (AOIs) subject to further investigations per the Consent Order. Preparing and submitting two description of conditions reports (DOCCs) to the USEPA. Design and implementing a RCRA facility investigation (RFI) based on the AOIs and other information presented in the DOCCs. Development of a geographical information system to manage and store new and historical analytical and other site-specific data. Installing nearly 500 soil borings, with more than 200 converted to monitoring wells/piezometers. Completing a site survey, which included site-wide topographic mapping, a site boundary survey, and XYZ coordinate survey of existing monitoring wells. Collecting and analyzing nearly 1,300 soil samples, nearly 100 grab groundwater samples, more than 1,000 monitoring well groundwater samples, more than 70 storm sewer grab samples, nearly 100 sediment samples, and more than 50 light nonaqueous phase liquid (LNAPL) samples. Conducting biweekly conference calls, various internet meetings, and quarterly site visits with the client and the USEPA to discuss the project schedule and the results of program activities. Generating more than 230,000 data points subsequently validated for use in risk assessment; and facilitating preliminary risk assessments. Designing and implementing a study to evaluate potentially active sources of oil contributing to a large LNAPL plume beneath an active manufacturing facility. Designing and implementing measures to remove oil floating on the surface of water contained within an extensive inactive steam tunnel unsafe to enter. Designing and implementing measures to address Toxic Substance Control Act requirements associated with a submerged facility basement and sub-basement tunnel system. Design and construction of two interim measures (IMs) for LNAPL control and recovery. Planning augmentation of existing LNAPL control/recovery IMs. Facilitating emergency response to LNAPL releases to adjacent river system via site outfalls. Designing and implementing a study

of storm sewer networks potentially subject to groundwater and/or LNAPL infiltration, and evaluating potential IMs for addressing such infiltration, with the final design of an end-of-pipe mitigation system involving a traveling bar screen, diversions structures, and the reconfiguration of a retention pond. Designing and implementing an investigation of approximately 5 miles of an adjacent river system. The objectives of this work were twofold: 1) assess the presence and distribution of contaminants surficial sediment upstream of, adjacent to, and downstream of the Facility; and 2) provide a data set which is sufficient to support a screening-level ecological risk assessment, as well as the assessment of the depth profile of contamination at select representative depositional areas. Preparing and submitting a Corrective Measures Proposal to USEPA to facilitate USEPA's preparation of a Final Determination of Remedy for the Facility.

Management activities related to the other facilities have involved similar activities, including:

Assessing and subsequent in-place lining of over 4,000 linear feet of storm sewers to mitigate LNAPL infiltration. Designing and installing a collection trench system for LNAPL and recovery and related on-site treatment system for dealing with recovered LNAPL and groundwater. Designing and performing source removal activities involving more than 4,000 tons of oil-stained surface concrete. Designing and installing drainage improvements to control surface-water flow patterns. Designing and installing a cover system over active LNAPL seep areas. Designing and installing onsite treatment system for LNAPL and groundwater collected from trench systems. Designing the investigation of soil and sediment from a drainage swale contaminated with polycyclic aromatic hydrocarbons (PAHs), and subsequent excavation of 1,800 cubic yards of related soil and sediment. Facilitating compliance with the home state's Due Care program, which is designed to ensure the safety of on-site workers. Facilitating compliance with the home state's statutes governing underground storage tanks (USTs), requiring the design, implementation, and reporting of investigatory and remedial activities related to numerous USTs/UST farms.

Voluntary RCRA Program

Confidential Client, Flint, Michigan

2003-Present, Project Cost: \$100,000

Co-developed with the client and USEPA Region 5 a first-of-its-kind program for voluntarily self-certifying RCRA Corrective Action complete with controls, and implementing this program on the first project in Region 5. This project involved the development a template to be used to document RCRA Corrective Action complete with or without controls, and the subsequent application of this template to a medium-priority manufacturing facility in Flint, MI. Once the template documentation was completed, documenting the investigation and remedy of the facility, the client was assisted in negotiating the terms of an Administrative Order on Consent which will govern the implementation of controls into the future.

Education

BS/Geology, Lake Superior
State University, 1987
Graduate course
work/hydrogeology and
contaminant hydrogeology,
Western Michigan University,

Years of Experience

With ARCADIS Since 1999

Professional Registrations

Certified Professional Geologist,
Amer. Inst. of Prof. Geol.
Certified Professional Geologist,
IN
Certified Underground Storage
Tank Professional, MI
Professional Geologist

Professional Qualifications

• American Institute of
Professional Geologists

Amy L. Hoeksema, CPG, PG

Senior Geologist II/Associate

Ms. Hoeksema has 19 years of experience in the environmental industry with particular emphasis in hydrogeologic investigations for solid and hazardous waste landfills, waste characterization, remedial and corrective action plans, and surface impoundment closures in Michigan and Indiana.

Ms. Hoeksema has been responsible for following projects from initial field investigations through final groundwater monitoring designs and construction, including the development of work plans, conceptual designs, landfill construction permit applications, remedial action plans, closure plans, bid documents, county plan submittals, environmental assessments, and documentation reports.

Ms. Hoeksema specializes in design and technical coordination of Michigan's Natural Resource and Environmental Protection Act (Act 451), Part 115-driven waste characterization, hydrogeologic investigations, and monitoring; Part 201-driven remedial investigations, interim response activities, feasibility studies, and remedial actions; mixing zone interpretation and development; RCRA-driven groundwater monitoring and closure activities; Part 213-driven Underground Storage Tank investigations and closures; and Ohio Voluntary Action Program Implementation.

Experience

Interim Response Work Plan Development and Implementation for a Drum Burial Area Michigan

Project hydrogeologist who prepared and implemented an Interim Response Work Plan under former Michigan Public Act 307. Evaluated and assessed the fate and transport of xylenes in groundwater to determine the leading edge of any potential xylene plume. Vertically profiled groundwater using xylene and specific conductance as indicator parameters of the plume location and determined the placement of monitoring wells in the field. Monitoring wells were completed within the zones of highest concentrations to monitor "early warning" of constituent concentrations above regulatory thresholds, in this case Act 307 Type B cleanup criteria.

Part 201, Part 115 and RCRA Evaluations

Cement Manufacturers, Michigan

Senior hydrogeologist/project manager who performed various environmental consulting services for three major companies. Initially, developed a program to determine the waste characterization of existing piles of a cement byproduct and wasted material. Identified waste handling alternatives, which led to the concept of siting a landfill in an area onsite. Worked with the regulators to obtain their concurrence with an innovative approach for the landfill development in accordance with Act 451, Part 115. Developed and implemented hydrogeologic investigations that determined site groundwater flow characteristics and groundwater quality in the unconsolidated and bedrock deposits. Investigated the presence of karst features within the bedrock deposits based on quarry wall observations, onsite boreholes, and available published data. Prepared workplans approved by the Michigan Department of Environmental Quality (MDEQ) that were completed to define the vertical and horizontal extent of groundwater impacts due to waste management practices at the facility. Prepared a mixing zone request application. Performed calculations to determine final acute values, groundwater surface water interface criteria and final chronic values for comparison to venting groundwater concentrations. Assisted in negotiations with Michigan Department of Environmental Quality. Prepared and submitted to the Michigan Department of Environmental Quality a remedial investigation, feasibility studies that detailed preferred remedial alternative(s), and a site-wide remedial action plan in accordance with Act 451, Part 201.

Ohio Voluntary Action Program Qualified Site

Ohio

Senior geologist/project manager whose activities completed include updating existing Phase I Property Assessment, implementation of Phase II Investigation to define extent of impact at each Identified Area. Prepared an Urban Setting Designation and performed remedial activities in preparation of a No Further Action letter. Characterized excavated soil to determine appropriate disposal options. Provide updates to client on budget and schedule and perform regulatory negotiations.

Groundwater Data Evaluation Hazardous Waste Storage Facility

Michigan

Senior hydrogeologist/project manager who developed and implemented a detection monitoring program in accordance with Michigan Public Act 451 Part 111. Oversaw the implementation of the groundwater monitoring program, which included statistical evaluations and groundwater flow interpretations (unconsolidated and bedrock deposits), and implemented negotiations with the MDEQ.

Hydrogeologic Investigation of and In-Situ Vitrification Superfund Site

Michigan

Project hydrogeologist who collected and evaluated groundwater data to identify the treatment needs of groundwater pumped from a dewatering network. Performed groundwater modeling to determine the effectiveness of the pumping system. Prepared documents that were submitted to the USEPA that showed that no further remediation was necessary due to natural attenuation. This information was accepted, and the site was closed.

Landfill Siting

Michigan

Staff geologist who developed and implemented subsurface investigations to evaluate the suitability of the site as a Type III landfill according to former Michigan Public Act 641. Prepared and submitted a proposal to Washtenaw County for inclusion of the site into the County Solid Waste Management Plan. Assisted in the design and implementation of a clay borrow investigation to evaluate the suitability of onsite soil for use as clay liner and capping materials. Installed observation wells and evaluated the groundwater flow characteristics of the site.

Groundwater Monitoring System Design, Installation, and Quarterly Sampling

Michigan

Staff geologist who planned and implemented a hydrogeologic investigation to evaluate groundwater flow. Assisted in the development of a program to classify their waste as inert according to former Act 641. Designed, installed, monitored, and maintained the groundwater monitoring system as approved by the Michigan Department of Natural Resources (MDNR). Prepared annual reports for submittal to the agency.

Underground Storage Tank (UST) Remedial Investigations and Response

Michigan

Project geologist/hydrogeologist who planned and implemented investigations to determine the nature and extent of impacted soil and groundwater at three locations owned by this client. The regulatory framework for these sites was the Michigan underground storage tank acts (former Act 423, former Act 478 and former Act 518). Assisted in the design and installation of a recovery well system to pump and treat gasoline-contaminated groundwater at one of the locations. Prepared a remedial investigation report and corrective action plan for one of the locations.

Hydrogeologic Investigations for Act 307 Closure and Landfill Siting

Michigan

Staff geologist/project hydrogeologist who developed and implemented hydrogeologic investigations to determine the site groundwater flow regime, and groundwater quality characteristics. Installed and sampled monitoring wells to establish background water quality and

to monitor waste placement. Used this information to prepare a maintenance, monitoring, and closure plan that was approved by the state. As part of this plan, developed a monitoring program using intra-well statistical comparisons to evaluate closure alternative effectiveness. Collected and evaluated groundwater quality data. Used the data gathered from the hydrogeologic investigations to prepare a design report detailing a monitoring plan for a Type III landfill.

Landfill Evaluation, Closure, and Post-Closure Monitoring

Michigan

Project hydrogeologist/project manager whose responsibilities included installing monitoring wells, collecting quarterly groundwater quality samples, and collecting waste samples for characterization to determine monitoring parameters. Implemented a clay borrow investigation to evaluate onsite clay suitability for a capping material. Once the landfill was capped and closed, responsibilities included evaluating groundwater quality data using statistical methods to confirm cap performance, which included semiannual reporting. Completed successful negotiations with the state agency to discontinue post-closure monitoring within 5 years of closure because of favorable statistical results.

Inert Designation of Foundry Material

Michigan

Project geologist who collected representative samples of the foundry material and analyzed the samples in accordance with the MDEQ inertness designation requirements. Prepared a petition requesting the material be classified as site-specific inert according to Part 115. Obtained inertness classification for the material such that it could be placed in a designated area onsite without monitoring requirements.

RCRA Surface Impoundment Closures

Michigan and Indiana

Planned and implemented a hydrogeologic investigation, and subsequently designed and installed a groundwater monitoring detection program for the RCRA surface impoundment in accordance with 40 CFR, Part 265 interim status. Assisted in the development of a waste characterization program. The groundwater monitoring network was designed to intercept the potential migration of lead from the surface impoundment. Maintained and monitored the groundwater monitoring network for continued use of the surface impoundment until the facility could alter the process and eliminate the need for the surface impoundment. Statistically evaluated groundwater quality, planned and implemented a groundwater quality assessment program, and successfully closed the surface impoundments. Assisted in the preparation of the closure documentation report and in the negotiations with the U.S. Environmental Protection Agency (USEPA).

Part 201 Remedial Investigation and Closure

Michigan

Project hydrogeologist who developed and implemented a remedial investigation (RI) to determine the horizontal and vertical extent of soil and groundwater impacts from solvents and chromium. Prepared and submitted the remedial investigation report to the MDEQ in accordance with Act 451, Part 201, requirements. Prepared groundwater model to evaluate a shallow trench as a remedial alternative.

Existing Landfill Environmental Assessment

Michigan

Project hydrogeologist who acquired data and prepared an environmental assessment according to former Act 641. The environmental assessment was necessary for an expansion of the existing landfill, which was subsequently approved by the MDEQ.

Closure Reports

Auto Manufacturing Company
, Michigan

Senior geologist who prepared closure reports for two sites under the Part 213 regulations as a Certified Underground Storage Tank Professional. In addition, prepared Restrictive Covenants and Notice of Corrective Actions as needed for these projects.

Education

MSc/Economic/Exploration
Geology, University of
Michigan, 1998
BS/Geology, University of
Minnesota-Duluth, 1995
BA/International Relations,
Carleton College, 1983

Years of Experience

With ARCADIS Since 2000

Professional Registrations

Registered Storm Water
Management Operator, MI
Registered Construction Site
Operator, MI

Professional Qualifications

- Geological Association of
Canada
- Canadian Institute of
Mining, Metallurgy &
Petroleum
- Sigma XI, Honorary
Scientific Research
Society - Induction based
on work on Banded Iron
Formations on
Minnesota's Iron Range

Susannah M. Duly

Senior Project Scientist I

Ms. Duly has 7 years of experience installing groundwater monitoring and remediation wells; performing a variety of soil, water and gas sampling programs; assisting in implementing hydrogeologic investigations; and installing, sampling, and logging soil borings. In addition, Ms. Duly has installed vents and injectors for chemical oxidation programs and, monitored parameters during injection.

Experience

Groundwater Monitoring Wells Installation

Mt. Vernon, Ohio

Installed several groundwater monitoring wells and soil borings, performed groundwater sampling, and logged soil types for adherence to Ohio Voluntary Action Program (VAP) regulations, at a former plastic container manufacturer.

Delineation of Contaminant Plume

Mt. Vernon, Ohio

Installed vents and injectors, logged soil types, and recorded photoionization detector (PID) readings at a former plastic container manufacturer. Actively assisted in delineating the extent of the contaminant plume. Performed monitoring of several parameters during injection.

Response Action Plan

Clark Lake, Michigan

Worked on a response action plan and installed monitoring wells and verified soil units at a landfill site.

Remedial Investigation/Groundwater Sampling

Battle Creek, Michigan

Field technician for a state Superfund remedial investigation at a closed landfill. Performed biannual groundwater sampling.

Proposed Electrical Substation Project

Dundee, Michigan

Installed soil borings, verified soil types, and recorded geotechnical measurements used in the final design and construction of foundation excavations for a proposed electrical substation.

Sampling for Solid Waste and RCRA Programs

Richmond, Indiana

Ongoing,

Installed soil borings and logged soil types at this major automotive parts supplier metal fabrication facility undergoing ongoing solid waste and RCRA programs to fulfill the IDEM Solid Waste Facilities Branch and Hazardous Waste Facilities Branch requirements and closure plans. Installed several artesian groundwater monitoring wells. Performed quarterly, intricate onsite groundwater sampling programs. Assisted in developing improvements to the sampling protocol and ways to reduce expenses. Recognized possible large contamination source on adjacent property.

Delineation of Contaminant Plume

Benton Harbor, Michigan

Installed vents and injectors, logged soil types, and recorded PID readings at an active pneumatic component manufacturer. Actively assisted in delineating the extent of the contaminant plume. Monitored several parameters during injection.

Groundwater Investigation

Grand Rapids, Michigan

Work at this Superfund site was concerned with the effect of contaminated groundwater from a landfill discharging into the Grand River. Performed quarterly, highly-detailed, and intricate groundwater sampling under Part 201 of Michigan Act 451. Installed and developed groundwater monitoring wells.

Michigan Part 201 Remedial Investigation/Remedial Action Plan

Mt. Pleasant, Michigan

Project was part of the RI/RA plan at an auto supplier site. Installed and logged soil borings and installed air sparge and soil vapor extraction wells according to engineered specifications.

Support of No Further Action Letter

NGC, Inc., Niles, Ohio

Assisted compiling and writing documentation in support of a No Further Action Letter under the Ohio Voluntary Action Program at the new NGC, Inc. facility.

Installation of Monitoring Wells and Soil Borings

Dundee, Michigan

Field coordinator responsible for supervising the installation of monitoring wells and soil borings to characterize and determine the extent of cement kiln dust (CKD) at an active cement manufacturing facility. Verified and recorded soil types. Assisted in developing a sampling program.

Installation of Monitoring Wells

Edmore, Michigan

Field coordinator responsible for installing monitoring wells at a facility. Supervised the installation of a temporary water-treatment system. Supervised and performed the preparation and completion of 72-hour pump tests.

General Core Logging

Greenstone Gold Deposit, Timmins, Ontario, Canada

Responsible for general core logging. Supervised a diamond-drill exploration. Interpreted geophysical and cross-sectional data. Reported assay results and core descriptions. Prepared information for the public, investment communities, and the media.

Delineation of Paper Sludge

Fox River Paper Company, Vicksburg, Michigan

Supervised the installation of soil borings and monitoring wells to delineate the extent of paper sludge. Also assisted in the compilation of a remedial action plan for one area of the site.

Installation of Bedrock Monitoring Wells

Cytec, Joliet, Illinois

Responsible for supervising the installation of bedrock monitoring wells and verified and recorded soil types.

Installation of Bedrock Monitoring Wells

Cytec, Michigan City, Indiana

Responsible for supervising the installation of bedrock monitoring wells and verified and recorded soil types.

Proposed Simple-Cycle Electrical Generating Facility Project

Zeeland, Michigan

Installed soil borings, verified soil types, and recorded geotechnical measurements used in the final design and construction of foundation excavations for the proposed facility.

Installation of Double-Cased Monitoring Wells

Kalamazoo, Michigan

Supervised, with Michigan Department of Environmental Quality (MDEQ) oversight, the installation of double-cased monitoring wells at a landfill operable unit (OU).

Onsite Groundwater Sampling

Rochester, Indiana

Performed quarterly onsite groundwater sampling for natural attenuation monitoring in adherence to IDEM guidelines at a former (decommissioned) major automotive parts supplier metal fabrication facility.

Installation of Monitoring Wells

Kalamazoo, Michigan

Supervised the installation at a mill site.

Monitoring Wells Sampling

Kalamazoo, Michigan

Field coordinator for quarterly ultra-low flow sampling of monitoring wells, with MDEQ oversight, at a landfill OU.

Response Action Plan

Cotescville, Pennsylvania

Field coordinator for a response action plan at a former railroad scrap yard. Implemented, coordinated, and supervised the digging and surveying of test pit locations and analyzed soil samples for lead using Niton XRF. Assisted in interpreting the geologic units.

Voluntary Remediation Project

Angola, Indiana

Installed recovery wells and performed onsite well sampling using a variety of methods at a former major automotive parts supplier metal fabrication facility undergoing voluntary remediation under the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program.

Groundwater Sampling

NGC, Inc., National City, Michigan

Performed the sampling at an active wallboard manufacturing site.

Field Activities

NGC, Inc., Alpena, Michigan

Field coordinator supervised the installation of soil borings, geophysical work, and surface-water sampling. Installed soil borings, verified and recorded soil types and extent of CKD, and assisted in compiling data including using AQTESOLV. Assisted in developing a work plan and in preparing and writing the report on these activities to the client.

Groundwater Remediation Project

Montgomery County, Pennsylvania

Field coordinator for a groundwater remediation project that involved onsite and offsite remediation of TCE contamination of bedrock aquifers resulting from releases by a previous manufacturing facility at a Superfund Site. Responsibilities included supervising and performing residential and onsite groundwater sampling including gas (Microseeps) field sampling.

Contamination Investigation

Confidential Client, Flint, Michigan

Ongoing,

Project coordinator responsible for developing a strategy to investigate the extent of contamination at the automotive client site. Also developed the field sampling and quality assurance project plans. Supervised the installation of temporary and permanent monitoring wells and soil borings. Verified and recorded soil types including those potentially containing nonaqueous phase liquids (NAPLs) and solvents. Coordinated and supervised the performance of low-flow sampling by technicians. Currently writing a report for submittal to client.

Field Activities Planning and Reports

Confidential Client, Flint, Michigan

Assisted in the planning of and later wrote reports documenting field activities at automotive client's sites.

Installation of Temporary and Permanent Monitoring Wells and Soil Boring

Confidential Client, Flint, Michigan

Field coordinator responsible for supervising the installation of temporary and permanent monitoring wells and soil boring at the automotive client's site. Verified and recorded soil types including those potentially containing NAPLs and solvents. Coordinated and performed low-flow sampling. Assisted in the training and supervision of other ARCADIS BBL personnel at these sites.

Education
BS/Environmental Analysis &
Resource Management,
Western Michigan University,
2005

Years of Experience
2 Years

Joseph A. Kotwicki

Scientist

Mr. Kotwicki has approximately 2 years of environmental consulting experience. He has experience conducting and coordinating Phase I Environmental Site Assessments (ESAs) in accordance with American Society for Testing and Materials (ASTM) Standard Practice E1527-00 and E1527-05. Mr. Kotwicki also has experience providing on-site soil descriptions, inputting data into field logs, data interpretation, report generation, and preparation of tables, charts, figures, and geologic cross sections. He has experience conducting other various field activities including, monitoring well and production well installations, groundwater, surface water, sediment, soil, and ambient and indoor air sampling. He has also prepared quarterly groundwater monitoring reports, traffic safety assessments, and landfill monitoring reports.

Experience

Phase I and Phase II Environmental Site Assessments and Investigation Program

Confidential Client, United States

Ongoing, Project Cost: \$1,759,582

Mr. Kotwicki has completed over 40 Phase I and Phase II ESAs of properties located throughout the U.S. which included vacant, commercial, and industrial facilities.

Site Assessment and Phase II ESA

Confidential Client, Coudersport, Pennsylvania

2006, Project Cost: \$125,500

Mr. Kotwicki collected ambient air and indoor air samples at various building locations in Coudersport, Pennsylvania. He utilized Summa canisters to collect air samples which were subsequently analyzed in accordance with the United States Environmental Protection Agency's (USEPA) Compendium Method TO-15.

Traffic Work Zone Safety Assessment

New York City Department of Environmental Protection (NYCDEP), New York

Project Cost: \$10,000

Mr. Kotwicki conducted traffic work zone safety assessment activities to evaluate whether traffic control vehicles, signs and equipment were adequate for all required in-traffic work and to determine if work zones were safe for motorists, pedestrians and NYCDEP personnel.

Education

B.S./Natural Resources and
Environment, University of
Michigan, 2002

Years of Experience

With ARCADIS Since 2006

Professional Registrations

Certified Asbestos Inspector, MI

Tiffany A. Linder

Project Scientist

Ms. Linder has 4 years of experience conducting, coordinating, and generating reports for more than 100 Phase I environmental site assessments (ESAs) in accordance with the ASTM Standard Practice E1527; conducting, coordinating, and report generation of Phase II ESAs; report generation of each category of Baseline Environmental Assessment (BEA) in Michigan; and limited knowledge in completion of Spill Prevention Control and Countermeasure (SPCC) Plans and Pollution Incident Prevention (PIP) Plans. Ms. Linder also has knowledge in regards to coordinating and conducting discarded/abandoned waste material disposal activities, submittal of applicable forms and fees, and subsequent report-generation activities.

Experience

Due Diligence

PPL, Allentown, Pennsylvania

2006, Project Cost: \$25,000

Organized and conducted a Phase I Environmental Site Assessment (ESA), which included a site visit, extensive research pertaining to the historical usage of the facility that was utilized as a bulk fuel storage and transfer facility since the 1920's, analyzed documentation and information obtained pertaining to the site and compilation of information obtained into a comprehensive Phase I ESA report utilizing the current ASTM E 1527-05 standard for conducting Phase I ESAs. Based on the findings of several recognized environmental conditions (RECs) Phase II ESA activities were recommended to be completed at the site to further investigate the subsurface conditions present at the site.

NPDES Permit Variance and Modification Request

New NGC, Inc., Shoals, Indiana

2006, Project Cost: \$70,000

Assisted in researching information and documentation to be utilized during a presentation to the Indiana Department of Environmental Management (IDEM) to request a NPDES permit variance and modification for mine water discharge exceeding allowable levels of sulfate. Generation of a Microsoft Power Point presentation to be presented at the meeting to request the variance and modification for the issued NPDES permit for New NGC, Inc. The outcome of the presentation and meeting was favorable and met New NGC, Inc.'s needs.

Abandoned/Discarded Solid and Liquid Waste Removal

JP Morgan Chase, Michigan

2006, Project Cost: \$80,000

Completed solid and liquid waste characterization activities for abandoned/discarded chemicals identified onsite. Organized and facilitated solid and liquid waste removal activities within designated timeframe for Michigan liability protection. Completed required forms and fees for obtaining an MID/MIK number for waste disposal and coordinated with waste disposal company for onsite staging, packaging, manifesting, offsite transfer and disposal of the solid and liquid waste identified at the site. Generated and submitted comprehensive report documenting the completed activities, types and quantities of waste removed, and recommendations for future use of the site.

Due Diligence

General Motors Corporation, Several locations nationwide

2006, Project Cost: \$1,051,366

Coordinated and conducted nationwide environmental site assessments to assist the client in evaluating the environmental liability associated with potential financing and property transactions on a site to site basis. Properties include mainly automobile dealership properties with vehicle service and maintenance operations. Completion of research activities pertaining to the site to gain site specific knowledge related to any environmental violations or concerns that would have not been observed during the site reconnaissance activities. Inclusion of information obtained through research and site reconnaissance activities into a comprehensive site assessment report within time and budget constraints.

Subsurface Investigations - Phase II ESA Activities

Various Financial Institutions, Various Locations in Michigan

2006, Project Cost: \$40,000

Identified soil boring placement based on site conditions, and generated figures locating proposed soil borings. Coordinated, managed, and instructed field personnel to conduct soil boring advancement in identified locations, monitoring well installation, and subsequent soil and water sampling activities utilizing the State of Michigan sampling protocol. Identified select soil and groundwater samples for submittal to environmental laboratory for analytical testing, completed Chain of Custody forms, and reviewed and analyzed analytical data received from the laboratory. Generated and submitted Phase II ESA report outlining completed activities, analytical results, site analysis, and recommendations based on analytical data.

Liability Protection

Various Financial Institutions and Private Parties, Various locations in Michigan

2006, Project Cost: \$3,000

Determined applicable category of Baseline Environmental Assessment (BEA) based on site conditions, proposed use of site, and client needs. Completed required forms and submitted

associated fees on behalf of each client. Gathered necessary information and generated appropriate category BEA report and attachments. Worked with MDEQ representatives regarding any identified deficiencies in submitted report and submitted revised documentation for liability protection for client.

Due Diligence

Various Financial Institutions, Various Locations in Michigan

2006, Project Cost: \$4,000

Conducted more than 100 Phase I ESA site walkovers at various industrial, commercial and residential site settings, which included planning, scheduling and completing detailed site walkovers; evaluation of reasonably ascertainable information from federal, state and local agencies; and compilation of information into a comprehensive Phase I ESA report for each site following the ASTM E1527 Standard in effect at the time of project initiation. Based on the sheer volume of Phase I ESA site assessments completed, it is not possible to include a summary of all of the assessments completed under supervision of an environmental professional.

Due Diligence

Sempra Energy, Various Locations

2005, Project Cost: \$50,000

Conducted Phase I ESAs at several crude oil storage and transfer station facilities, which included planning, scheduling, and completing site walkovers; research activities for each of the sites; and compilation of information into a comprehensive Phase I ESA report, following the ASTM E1527-00 Standard. Completed detailed research activities in respect to state regulations as they related to crude oil storage and transfer facilities for each state. Sites were located in North Dakota, South Dakota, Montana, Wyoming and Colorado.