ARCADIS
Infrastructure, environment, buildings

March 11, 2010 010-15317-04

Robert W. Hare, P.E., CHMM
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Subject: Phase I Environmental Site Assessment
MLC ID 1309
No Etkins Ground Lease Parcels 189 and 190
South Centerpoint Parkway
Pontiac, Michigan

Dear Mr. Hare:

Attached is the Phase I Environmental Site Assessment (ESA) report for the above-referenced property. The conclusions presented in this report are based on the results of a reconnaissance-level site visit conducted by ARCADIS Inc. (ARCADIS) personnel and a review of available and pertinent background information.

ARCADIS appreciates this opportunity to provide our environmental consulting services to you. If you have any questions concerning this project, please contact me at (781) 356-7300.

Sincerely,

Stephen P. McCarthy
Principal Scientist

Attachments

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Phase I Environmental Site Assessment
MLC ID 1309
No Etkins Ground Lease Parcels 189 and 190
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March 11, 2010
ARCADIS Project No. 010-15317-04

Prepared for
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LFR an ARCADIS company

The environmental assessment described herein was conducted by the undersigned, of ARCADIS U.S., Inc. (ARCADIS). ARCADIS' investigation consisted solely of the activities described in the Introduction of this report, in accordance with ARCADIS Proposal No. P10-05008-09-718, and is subject to the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment.

Report Prepared By:



for

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Senior Geologist

Report Reviewed By:



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Senior Geologist

EXECUTIVE SUMMARY

ARCADIS U.S., Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the South Centerpoint Parkway property located southeast of the intersection of Meadow Drive and Centerpoint Parkway in Pontiac, Michigan (the Site). The Site is identified as No Etkins Ground Lease Parcels 189 and 190 and consists of approximately eight acres of land. The Site was originally part of the former General Motors (GM) Pontiac Assembly Plant property which is located to the east of the Site. A group of parcels from the former Pontiac Assembly Plant property were identified to have no environmental concerns and a portion of these parcels were identified as the No Etkin Ground Lease parcels, which includes the Parcels 189 and 190.

The Site was formerly occupied by residential development from at least 1949 until 2000. Currently, the Site is undeveloped land.

The purpose of the Phase I ESA is to identify, to the extent feasible pursuant to the processes prescribed in the American Society for Testing and Materials (ASTM) document E 1527-05, recognized environmental conditions (RECs) in connection with the Site. A summary of our key findings is provided below:

- At the time of ARCADIS' Site visit, the Site was primarily vacant and covered with brush and trees. Two empty heating oil tanks were observed on the Site. In addition, several empty five-gallon containers, tires and other debris were observed throughout the Site.
- The Site is not listed on the environmental databases searched by Environmental Data Resources, Inc. (EDR). Records indicate that there are groundwater and land use restrictions for the Site parcel (Parcel 190) through a Declaration of Restrictive Covenant filed with the Oakland County Register of Deeds on November 29, 2000. The restrictions are applicable to the Site because of releases that have been addressed with Resource Conservation and Recovery Act (RCRA) closure activities and corrective actions at the former nearby Pontiac Assembly Plant. The Declaration of Restrictive Covenant reportedly restricts residential development at the Site and the potable use of groundwater.

Conclusion

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at the intersection of Meadow Drive and South Boulevard East, Pontiac, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed no evidence of RECs in connection with the Site.

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1.0 INTRODUCTION

ARCADIS U.S., Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the South Centerpoint Parkway property located southeast of the intersection of Meadow Drive and Centerpoint Parkway in Pontiac, Michigan (the "Site"). The Site is identified as No Etkins Ground Lease Parcels 189 and 190 and consists of approximately eight acres of land. The Site was formerly occupied by residential development from approximately 1949 to 2000 and is presently undeveloped land covered with brush and trees.

1.1 Purpose

Motors Liquidation Company (the Client) requested that ARCADIS conduct a Phase I ESA of the Site. The objective of the ESA was to identify RECs in connection with the property, to the extent feasible pursuant to the processes prescribed in American Society for Testing and Materials (ASTM) E 1527-05 guidelines. The term "REC" as defined by the ASTM is the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or the material threat of a release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with laws. The term is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies.

This Phase I ESA includes information gathered from federal, state, and local agencies; personal interviews with people familiar with the Site and surrounding properties; and a site visit conducted by a ARCADIS representative.

1.2 Detailed Scope of Services

The Phase I ESA conducted by ARCADIS included, but was not limited to, the following services:

- a reconnaissance-level visit of the Site to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for on-site releases of hazardous materials and petroleum products
- drive-by observations of adjacent properties and the site vicinity
- interviews with people familiar with the Site, as available
- review of regulatory and local agency files, as necessary
- review of historical documents, as available

- preparation of a report presenting our findings, including a summary of conclusions

1.3 Significant Assumptions

The purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the Site consistent with good commercial and customary practice in an effort to minimize liability. ARCADIS also assumes that the information provided by the Client, the regulatory database provider, and regulatory agencies is true and reliable.

1.4 Limitations and Exceptions

The opinions and recommendations presented in this report are based upon the scope of services, information obtained through the performance of the services, and the schedule as agreed upon by ARCADIS and the original party for whom this report was originally prepared. This report is an instrument of professional service and was prepared in accordance with the generally accepted standards and level of skill and care under similar conditions and circumstances established by the environmental consulting industry. To the extent that ARCADIS relied upon any information prepared by other parties not under contract to ARCADIS, ARCADIS makes no representation as to the accuracy or completeness of such information. Only the party for whom this report was originally prepared, its lenders, insurers and professionals, and other specifically named parties, may make use of and rely upon the information in this report, in its entirety, for a period not to exceed 180 days in accordance with the American Society for Testing and Materials (ASTM's) "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-00 dated May 10, 2000, ASTM's "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" ASTM Designation E 1527-05 dated November 1, 2005, and/or the Code of Federal Regulations (CFR) 40 CFR Part 312 "Standards and Practices for All Appropriate Inquiries: Final Rule" dated November 1, 2005. After 180 days and prior to using the information contained herein, the report should be updated in accordance with ASTM Standards and Federal regulations.

The findings presented in this report apply solely to site conditions existing at the time when ARCADIS' assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of evaluating the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS' ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in ESA conclusions cannot reasonably be achieved.

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination.

Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards.

1.5 User Reliance

This report is for the exclusive use of Motors Liquidation Company. Use of this report by any other party shall be at such party's sole risk.

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is located southeast of the intersection of Meadow Drive and Centerpoint Parkway in the City of Pontiac, Oakland County, Michigan. According to the Oakland County Assessor's Office, the two adjoining Site parcels are identified as 14-34-452-021 (Parcel 189) and 14-34-454-005 (Parcel 190). The Site parcels cover eight acres of land and are zoned as industrial vacant land (302 IND VAC).

Refer to Figure 1 for the location of the Site.

2.2 Site and Vicinity General Characteristics

The Site is an approximately eight-acre irregularly-shaped tract of land that is situated in a mixed commercial and industrial area on the south side of Pontiac, Michigan. Commercial and industrial properties are located along the major roads, with residential areas situated on the secondary roads in the area.

2.3 Current Use of the Site

The Site is currently a vacant wooded and brush covered parcel.

2.4 Descriptions of Structures, Roads, and Other Improvements on the Site

The Site is currently an undeveloped parcel. Meadow Drive and Centerpoint Parkway border the west and north sides of the Site, respectively. The southern portion of the Site is bordered by South Boulevard East and a private residence.
Refer to Figure 2 for a plan depicting the layout of the Site.

2.4.1 Source of Potable Water

There is currently no water system at the Site. However, the City of Pontiac provides drinking water to the area.

2.4.2 Sewage Disposal System

There is currently no sewer system at the Site. However, the area is serviced by the City of Pontiac municipal sewer system.

2.4.3 Heating/Cooling Systems

There are currently no heating or cooling systems at the Site.

2.4.4 Solid Waste Disposal

Solid waste is not generated at the Site.

2.5 Current Uses of Adjoining Properties

The use of the adjoining properties at the time of ARCADIS' investigation is summarized as follows:

- The Site is abutted to the north by a Centerpoint Parkway, beyond which is a vacant parcel (owned by GM).
- The Site is abutted to the west by Meadow Drive, across which is a vacant wooded parcel and a vacant warehouse formerly occupied by FSS and.
- The Site is abutted to the south by South Boulevard and a private residence, beyond which is GM Pontiac Centerpoint Campus East.
- The Site is abutted to the east by a commercial facility, Ultimate Soccer Arenas.

3.0 USER-PROVIDED INFORMATION

The following items regarding the Site were requested by ARCADIS to the Client's representative. The questionnaire was completed by Robert Hare of the Motors Liquidation Company. Refer to Appendix A for a copy of the questionnaire.

3.1 Title Records

Title records were not provided to ARCADIS for review.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Hare was asked the following questions as part of the assessment:

- Is he aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? **Answer:** Unknown
- Is he aware of any activity or land use limitations, such as engineering controls, land use restrictions, or institutional controls, that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? **Answer:** Unknown

3.3 Specialized Knowledge

Mr. Hare was asked the following questions as part of the assessment:

- Does he have any specialized knowledge or experience related to the property or nearby properties? For example, are they involved in the same line of business as the current or former occupants of the property or an adjoining property so that they would have specialized knowledge of the chemicals and processes used by this type of business? **Answer:** Unknown
- Is he aware of commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as User, **Answer:** Unknown
- Does he know the past uses of the property? **Answer:** Unknown
- Does he know of specific chemicals that are present or once were present at the property? **Answer:** Unknown
- Does he know of spills or other chemical releases that have taken place at the property? **Answer:** Unknown
- Does he know of any environmental cleanups that have taken place at the property? **Answer:** Unknown
- Does he know if any fill materials have been imported to the Site? Answer: Unknown
- Does he know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** Unknown
- Does he know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** Unknown
- Does he know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products? **Answer:** Unknown

3.4 Commonly Known or Reasonably Ascertainable Information

Mr. Hare was asked the following question as part of the assessment:

- Based on his knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? **Answer:** Unknown

3.5 Valuation Reduction for Environmental Issues

An analysis of a hypothetical prospective purchase price of the Site has not been conducted.

3.6 Owner, Property Manager, and Occupant Information

The Oakland County Assessor's Office could not determine the owner of the parcel due to the lack of a physical address.

3.7 Reason for Performing Phase I

The purpose of this Phase I ESA is to provide appropriate inquiry into the previous ownership and use of the Site consistent with good commercial and customary practice in an effort to minimize liability.

4.0 RECORDS REVIEW

The following sections provide information regarding the regulatory status and history of the Site and vicinity developed from information available from local, state and federal agencies and ASTM Standard Historical Sources. It also provides topographic, hydrologic and soil conditions in the area of the Site.

4.1 Historical Use Information

4.1.1 Previous Environmental Reports

Environmental reports and plans associated with the Site provided to ARCADIS for review included the following:

A "RCRA Facility Investigation (RFI) Report", GM Truck Group, Pontiac, Michigan was prepared by Conestoga-Rovers & Associates (CRA), dated October 21, 2005. This report does not reference the Site in particular; however, the Site is included within the boundary of the investigation.

CRA conducted an RFI at the GM Truck Group Facility in Pontiac, Michigan in two phases between November 1998 and January 1999 (Phase I), and August 2000 (Phase II).

The investigative activities focused on five SWMUs identified by the U.S. EPA in a Consent Order that required GM to initiate investigative/corrective actions at the Facility. The RFI investigation was completed in accordance with the general specifications outlined in a U.S. EPA-approved RFI Work Plan (CRA, 1998b). The seven SWMUs addressed through either an IM or this RFI are summarized below.

1) #30 Former J-Lot Fill Area

2) #32 Former Coal Pile Storage Area

3) #3 Container Storage Area

4) #29 Wastewater Treatment Plant

5) #31 Former Surface Impoundment

6) #33 Former South Retention Pond

7) #34 North Retention Pond

The first phase of investigation was conducted to determine if the native porous media encountered throughout the Site was greater than five feet thick and the zone of saturation was continuous and greater than two feet thick. It was determined that saturated sand seams encountered within the glacial till deposits were laterally discontinuous, of limited vertical thickness, or absent altogether.

A second phase of investigation of the perched water table zone was completed at the request of U.S. EPA at SWMU #3 and SWMU #31. The second phase of investigation included the installation of a shallow monitoring well at SWMU #3 and SWMU #31.

The Phase II investigation identified that no potable groundwater existed in the surficial water table zone immediately beneath the GM Truck Group Facility. In addition, potable water use for the GM Truck Group Facility and surrounding area is supplied by the City of Pontiac municipal water supply system. As a result, drinking water consumption was not a completed exposure pathway associated with the perched water table zone at the GM Truck Group Facility. In addition, all results were below the Act 451, Part 201 industrial GCC. The industrial GCC are considered to be the most applicable screening levels for the perched water table zone identified at SWMU #3 and SWMU #31. This indicated that the perched groundwater analytical detections were below the level of human health concern for a potential perched water table zone direct contact exposure (e.g., utility trench construction activities). Based upon the fact that all concentrations were either below applicable industrial land use based DCC screening levels (SWMU #3, #29, #33, and #34), or did not pose unacceptable risks (SWMU #31), for an industrial land use exposure scenario. It should be noted that the subject Site is not listed as a SWMU. However, former SWMU #34 (North Retention Pond) was located directly across from South Boulevard. No specific soil or groundwater data was provided for the subject Site.

4.1.2 Historic Map Review

ARCADIS requested Sanborn Fire Insurance (Sanborn) maps from EDR for the Site. However, EDR replied that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

A copy of the EDR Sanborn maps exclusion letter is included in Appendix B.

4.1.3 Aerial Photograph Review

ARCADIS reviewed historical aerial photographs provided by EDR for the years 1937, 1940, 1949, 1957, 1964, 1972, 1980, 1993, 2000, and 2005.

The 1937 photograph depicts one residence with two driveways on the northwest corner of the Site. The remainder of the Site appears to be occupied by agricultural land. A railroad easement (Grand Trunk Western), which extends north to south, is present along the eastern border of the Site. South Boulevard East abuts the Site to the south, beyond which is parking area and several large industrial buildings (GM Pontiac Centerpoint Campus). The surrounding areas appear to be occupied by agricultural land with a few residences.

The 1940 photograph depicts the Site and surrounding properties as similar to the 1937 photograph.

The 1949 photograph depicts the Site as essentially unchanged from the 1937 and 1940 photographs. However, the Site appears to include several smaller agricultural fields and a small structure at the southeastern portion. The surrounding areas appear essentially unchanged from the 1937 and 1940 photographs with the exception of the property to the west of the Site which has been further developed with residences.

The 1955 photograph depicts the Site and surrounding properties as similar to the 1949 photograph with the exception of an additional residence at the northwest and southwest portions of the Site. The Grand Trunk Western railroad appears to have been removed from the eastern portion of the Site. Additionally, property to the east and northeast appears to be under construction with a large building to the northwest and large graded areas to the east. A residence is present on the parcel immediately southwest of the Site.

The 1961 photograph depicts the Site as further developed with an additional residence at the western portion. Surrounding properties to the east and northeast have been further developed with a large commercial/industrial building and associated parking areas. Additional residences are present to the west of the Site.

The 1967 photograph depicts the Site as similar to the 1961 photograph. The parking area abutting to the east appears to be occupied by automobiles. Property southwest of South Boulevard East has been developed with a parking area. The remaining properties in the vicinity of the Site appear to be unchanged from the 1961 photograph.

The 1972 photograph depicts the Site and surrounding properties as unchanged from the 1967 photograph.

The 1980 aerial photograph depicts four small residential structures at the western portion of the Site. The eastern portion of the Site is wooded. The parking area at the eastern abutting property appears to be utilized as a storage area for equipment or automobiles.

The 1993 photograph depicts the Site as essentially unchanged from the 1980 photograph. The parking area on the property to the east of the Site appears to be a grassy area.

The 2000 aerial photograph depicts the Site essentially unchanged from 1980 and 1993 aerial photographs. Property across South Boulevard East to the south of the Site includes a large commercial building and parking areas.

The 2005 aerial photograph depicts the Site as a vacant grassy and wooded area. The west and north portions of the Site are bound by Meadow Drive and Centerpoint Parkway, respectively. The surrounding properties to the west of the Site appear to be undeveloped. Property to the south across South Boulevard East is occupied by a large commercial building and parking areas.

Copies of the above-referenced aerial photographs are included in Appendix B.

4.1.4 City Directories

ARCADIS did not conduct a City Directories search because there is no address for the Site.

4.1.5 Historical Topographic Maps

Topographic maps were obtained from EDR for the years 1907, 1943, 1952, 1968, 1973, 1983, and 1997.

The 1907 topographic map shows the Site as a vacant parcel of land with limited residential development to the south of the Site.

The 1943 map shows the Site as undeveloped land. Grand Trunk Western railroad extends north to south through the eastern portion of the Site. A road is present along the western side of the Site. Two residences are present to the north of the Site.

The 1952 map shows the Site as developed with two residences at the western portion of the Site. The property immediately southwest of the Site has been developed with two residences. The surrounding properties west of the Site have been developed with residential structures.

The 1968 map shows the Site as further developed with an additional residence on the northwest portion of the Site. The property immediately southwest of the Site has been further developed with an additional residence. The remaining surrounding properties are unchanged from the 1952 map.

The 1973 map shows the Site as developed with three residences at the western portion of the Site. Surrounding properties to the north, east and west are developed with commercial buildings.

The 1983 and 1997 maps are essentially unchanged from the 1973 map with the exception of a commercial building present on the property northwest of the Site.

The EDR Topographic Map report is included in Appendix B.

4.1.6 Building/Planning Departments

ARCADIS contacted the Pontiac Building and Planning Departments to review available records on file for the Site. At the time of this report, a response has not been received.

4.1.7 Additional Record Sources

No additional record sources were reviewed in the course of this assessment.

4.1.8 Summary of Historical Information

The Site has been developed since at least 1937 with a residence and a portion of the Grand Trunk Western railroad. Sometime prior to1955, the railroad was removed from the Site. The Site was further developed with two additional residences prior to 1968. All of the residences were removed from the Site prior to 2000.

Currently, the Site is undeveloped and is covered with grass and wooded areas.

4.2 Historical Use Information on Adjoining Properties

A review of available historical information indicates that the adjoining properties have been occupied by a mixture of residential and commercial/industrial purposes. The adjoining properties to the west have been occupied mainly by residences.

4.3 Physical Setting

4.3.1 Geology

4.3.1.1 Surface Features

According to topographic information (Pontiac South USGS Quadrangle Map), the Site elevation is approximately 910 feet. Topographically, the Site is essentially flat on the western half of the Site with a steep ravine at the eastern portion of the Site. The surrounding area is relatively flat with a slight slope to the southwest.

4.3.1.2 Subsurface Features

According to the EDR report, the subsurface soil at the Site consists of Urban Soil. Urban Soils have been disturbed by manmade activities that the original characteristics of the soil are no longer retained.

4.3.2 Hydrology

4.3.2.1 Surface Water

Surface water was observed on eastern portion of the Site. Surface water was also visible at the surrounding property north of the Site. Surface water flow in the area is largely controlled by artificial structures along roadways and in paved areas. The regional flow is anticipated to be to the southwest.

4.3.2.2 Groundwater

Groundwater flow is anticipated to be to the north-northwest.

4.4 Standard Environmental Record Sources – Federal and State

ARCADIS contracted with EDR to conduct a search of state and federal regulatory databases to identify recorded concerns for the Site and surrounding properties. The databases were searched to the approximate minimum search distances as specified in ASTM Standard Practice E 1527-05, "Phase I Environmental Site Assessment Process." The database search is provided as Appendix C.

Review of the EDR report revealed the following pertinent information.

Database	Search Radius	Site	Adjacent	0 – 1/8 mile	1/8 – ¼ mile	¼ - ½ mile	½ - 1 mile
NPL	1 mile	No	0	0	0	0	0
Delisted NPL	1 mile	No	0	0	0	0	0
CERCLIS	0.50 mile	No	0	0	0	0	-
CERCLIS-NFRAP	0.50 mile	No	0	0	1	0	-
RCRA CORRACTS	1 mile	Yes	0	0	1	0	0
RCRA TSD	0.50 mile	Yes	0	0	1	0	-
RCRA Generators	Site & adjacent	Yes	0	0	1	-	-
ERNS Site	Site	Yes	-	-	-	-	-
US IC/EC Registries	Site	No	-	-	1	-	-
SHWS	1 mile	No	0	0	0	0	0
State & Tribal SWF/LF	0.50 mile	No	0	0	0	0	-
State & Tribal LUST	0.50 mile	No	0	0	0	6	-
State & Tribal USTs	Site & adjacent	No	0	0	6	-	-
State ASTs	Site & adjacent	Yes	0	0	-	-	-
State IC/ EC Registry	Site	No	-	-	-	-	-
State Brownfields	0.50 mile	No	0	0	0	0	-
Indian VCP	0.50 mile	No	0	0	0	0	-
BEA	0.50 mile	Yes	0	0	1	3	-
Spills	Site	No	-	-	-	-	-
Drycleaners	0.25 mile	No	0	0	0	-	-

4.4.1 Site

The Site was identified on any of the databases searched by EDR.

4.4.2 Federal Environmental Record Sources

EDR did not identify facilities within the applicable radius for the Federal databases searched, except for the following:

CERCLIS – NFRAP

EDR identified one CERCLIS-NFRAP facility within 0.5 mile of the Site.

GMC Truck & Coach Division Pontiac located at 660 South Boulevard East is located approximately 1,240 feet west-southwest and is expected to be hydraulically downgradient of the Site. The database listing is currently classified as "No Site Assessment Work Needed," and is listed as "Archived". Based on the inferred groundwater flow from the Site and the current regulatory status of the facility, this facility does not appear to present an environmental concern to the Site.

CORRACTS

GMC Truck & Coach Division Pontiac at 660 South Boulevard East is located approximately 1,240 feet to the west/southwest and is expected to be hydraulically downgradient of the Site. The facility was listed a "high corrective action priority" in 1992. By 1997, stabilization measures were implemented. In 2000, "migration of contaminated groundwater under control" was verified by US EPA. In 2002, a petition for no further action was filed. No other information was provided. Based on its current regulatory status and direction of inferred groundwater flow from the Site, this facility does not appear to represent an environmental concern to the Site.

RCRA GENERATORS LIST

GMC Truck & Coach Div Pontiac at 660 South Boulevard East is located approximately 1,240 feet to the west/southwest and is expected to be hydraulically downgradient of the Site. The facility was listed as a large quantity generator (LQG) from 1980 through 2007. During that time, the facility received several "written informal" violations and two air emissions violations. Further details or corrective actions are described above. Based on its current regulatory status and direction of inferred groundwater flow from the Site, this facility does not appear to represent an environmental concern to the Site.

Auburn Pontiac at 500 South Opdyke Road is located 2,120 feet east/northeast of the Site and is expected to be upgradient of the Site. The facility is classified as a SQG which has several violations. However the violations were "written informal". Based on its current regulatory status this facility does not appear to represent an environmental concern to the Site.

RCRA NONGENERATORS

Swinters SVC CTR at 807 South Boulevard is located 340 feet west of the Site and is expected to be downgradient of the Site. The facility is not presently generating hazardous wastes. Based on the current regulatory status and direction of inferred groundwater flow from the Site, this facility does not appear to present an environmental concern to the Site.

US INSTITUTIONAL CONTROLS

GMC Truck & Coach Div Pontiac as described above, in 2000, "migration of contaminated groundwater under control" was verified by EPA. Based on the current regulatory status and direction of inferred groundwater flow from the Site, this facility does not appear to present an environmental concern to the Site.

4.4.3 State and Tribal Environmental Record Sources

EDR did not identify facilities within the applicable radii for the State and Tribal databases searched, except for the following:

LEAKING UNDERGROUND STORAGE TANK (LUST) SITES

EDR identified six LUST sites within 0.50-miles of the subject Site.

GM-Pontiac Centerpoint Campus at 660 South Boulevard East is located 1,625 feet west/southwest of the Site is expected to be hydraulically downgradient of the Site. According to the EDR report, the facility has eight "open" releases and four "closed" releases. Releases have been reported as diesel and gasoline. Based on the direction of inferred groundwater flow from the Site, this facility does not appear to represent an environmental concern to the Site.

Kmart at 975 South Opdyke is located 1,900 feet east of the Site and is expected to be hydraulically downgradient of the Site. According to the EDR report, a release of an unknown substance occurred on November 16, 1990. The status is reported as "closed" on September 8, 1997. Based on the status of this facility, it does not appear to present an environmental concern to the Site.

South Boulevard & Opdyke Station at 1501 South Opdyke Road is located 1,915 feet east of the Site and is expected to be hydraulically downgradient of the Site. According to the EDR report, a release of an unknown substance occurred on August 5, 1991 and is listed as "closed" on May 17, 1996. A gasoline release occurred on June 3, 2004 and is listed as "open". Based on the hydraulically downgradient location of the facility, it does not appear to present an environmental concern to the Site at this time.

Water & Sewer (City of Pontiac) at 522 Opdyke Road is located approximately 2,000 feet to the east/northeast and is expected to be hydraulically upgradient of the Site. According to the EDR report, an unknown release was reported at this facility on March 18, 1999. The database listing is currently classified as "closed" with a release close date of February 7, 2002. Based on the closed status, this facility does not appear to present an environmental concern to the Site.

Auburn Pontiac at 500 South Opdyke Road is located 2,120 feet east/northeast of the Site and is expected to be upgradient of the Site. According to the EDR report a release of an unknown substance occurred on October 1, 1992 and was closed on October 29, 1993. Based on its current regulatory status this facility does not appear to represent an environmental concern to the Site.

Moote Electrical, Inc at 490 South Opdyke Road is located approximately 2,220 feet northeast of the Site and is expected to be hydraulically upgradient of the Site. According to the EDR report, a 1,500-gallon gasoline tank was removed from the ground on October 29, 1991 and "closed" on May 25, 1993. Based on the status of this facility, it does not appear to present an environmental concern to the Site at this time.

BASELINE ENVIRONMENTAL ASSESSMENTS

EDR identified four BEA facilities within 0.5 mile of the Site. Three of the facilities are greater than 0.25 mile from the Site, while one facility is within 0.25 mile of the Site:

Motown Motion Pictures LLC at 1999 Centerpoint Parkway is located approximately 960 feet south/southwest and is expected to be hydraulically downgradient of the Site. According to the EDR report, the facility is categorized as "different hazardous substances". No other information is available. Based on the direction relative to the inferred groundwater flow, this facility does not appear to represent an environmental concern to the Site.

South Boulevard Commercial Building at 655 South Boulevard East is located approximately 1,455 feet west/south west and is expected to be hydraulically downgradient of the Site. According to the EDR report, the facility is categorized as "same hazardous substances". No other information is available. Based on the direction relative to the inferred groundwater flow, this facility does not appear to represent an environmental concern to the Site.

Office Building at 585 South Boulevard East is located approximately 1,770 feet west/southwest and is expected to be hydraulically downgradient of the Site. According to the EDR report, the facility is categorized as "same hazardous substances". No other information is available. Based on the direction relative to the inferred groundwater flow, this facility does not appear to represent an environmental concern to the Site.

Mobil Station 303-M5G (Former) at 1501 South Opdyke is located approximately 1,915 feet to the east and is expected to be hydraulically downgradient of the Site. According to the EDR report, the facility is listed as "same hazardous substances". No other information is available. Based on the direction relative to the inferred groundwater flow, this facility does not appear to represent an environmental concern to the Site.

A compilation of the State and Tribal database listings is provided in the EDR Radius Map Report provided in Appendix C.

4.4.4 Orphan Summary

ARCADIS reviewed the "Orphan Summary" section of the EDR Radius Map report, which is a list of sites that could not be properly located due to inadequate or incorrect information provided by the reporting agency. The 16 facilities listed in the Orphan summary do not appear to be located within the Approximate Minimum Search Distance for the above-referenced Federal and State regulatory databases.

4.5 Additional Environmental Records Sources

4.5.1 Fire Department

ARCADIS contacted the City of Pontiac Fire Department and there were no records available for the Site.

4.5.2 Health Department

ARCADIS contacted the Oakland County Health Department and there no records were available for the Site.

4.5.3 Michigan Department of Environmental Quality

ARCADIS contacted the Michigan Department of Environmental Quality (MDEQ), which did not identify any records on file for the Site pertaining to ASTs, USTs or the storage or release of OHM since there was not a physical address for the Site.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Mr. Stephen P. Zins of ARCADIS visited the Site on December 2, 2009. The weather at the time of ARCADIS' investigation was sunny, with a temperature of approximately 45 degrees Fahrenheit. ARCADIS inspected the entire Site. Photographs are included in Appendix D.

5.2 Current Site Use

The Site consists of approximately 8 acres of wooded and grass covered areas and is currently vacant.

5.3 Site Observations

5.3.1 Underground Storage Tanks (USTs)

ARCADIS did not observe fill pipes, vent pipes or other evidence of USTs on the Site.

5.3.2 Aboveground Storage Tanks (ASTs)

ARCADIS observed two abandoned ASTs on the northern portion of the Site. The ASTs appeared to be residential heating oil ASTs and were empty. No evidence of staining was observed in the vicinity of the ASTs.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS did not observe evidence of hazardous substance or petroleum use at the Site.

5.3.4 Unlabeled Drums/Containers

ARCADIS observed several labeled and unlabeled containers throughout the Site. However, most of the containers were adjacent to the residence northwest of the Site. Some of the containers were empty five-gallon containers labeled as chainsaw bar oil. No evidence of staining was observed in the vicinity of the empty five-gallon containers.

5.3.5 Stained Soil or Pavement

ARCADIS did not observe stained soil on the Site.

5.3.6 Stains or Corrosion

ARCADIS did not observe stains or corrosion on the Site.

5.3.7 Stressed Vegetation

ARCADIS did not observe evidence of stressed vegetation at the Site.

5.3.8 Polychlorinated Biphenyls (PCBs)

ARCADIS did not observe electrical or hydraulic equipment at the Site suspected to contain PCBs.

5.3.9 Solid Waste/Dumping

ARCADIS observed solid waste and dumping adjacent to the residence northwest of the Site. Items included boats, empty containers, tires and wood pieces.

5.3.10 Site Drainage

Surface water on the Site is likely to drain to the east side of the Site which is topographically approximately 15 feet lower than the west side of the Site.

5.3.11 Pits, Ponds, Lagoons and Pools of Liquid

ARCADIS did not observe pits, ponds, lagoons or pools of liquid on the Site.

5.3.12 Wastewater

ARCADIS did not observe processes at the Site that generated wastewater.

5.3.13 Wells

ARCADIS did not observe dry wells, irrigation wells, injection wells, or abandoned wells at the Site.

5.3.14 Septic Systems

ARCADIS did not observe evidence of septic systems or cesspools at the Site.

5.3.15 Odors

ARCADIS did not note readily noticeable strong, pungent, or noxious odors at the time of the site visit.

5.3.16 Other Observations

ARCADIS did not observe any other conditions at the Site that would contribute to an environmental concern.

6.0 INTERVIEWS

6.1 Interview with Owner/Key Site Manager

ARCADIS interviewed Mr. Robert Hare at the time of the assessment. Information provided is presented throughout the report.

6.2 Site Occupants

The Site is currently vacant.

6.3 Interviews with Local Regulatory Agencies

Research conducted at local regulatory offices has been summarized in Sections 4.5. No additional interviews with local regulatory agencies were conducted.

6.4 Interviews with Others

No additional interviews were conducted as part of this assessment.

7.0 FINDINGS/OPINION

This section identifies known or suspect environmental concerns, historical environmental concerns, and *de minimis* conditions obtained during the ESA.

7.1 Known or Suspect Environmental Concerns

Records indicate that there are groundwater and land use restrictions for the Site parcel (Parcel 190) through a Declaration of Restrictive Covenant filed with the Oakland County Register of Deeds on November 29, 2000. The restrictions are applicable to the Site because of releases that have been addressed with Resource Conservation and Recovery Act (RCRA) closure activities and corrective actions at the former nearby Pontiac Assembly Plant. The Declaration of Restrictive Covenant reportedly restricts residential development at the Site and the potable use of groundwater.

ARCADIS did not identify other known or suspect environmental concerns at the Site.

7.2 Historical Recognized Environmental Conditions

ARCADIS did not identify any historical recognized environmental conditions.

7.3 De Minimis Conditions

ARCADIS observed *de minimis* conditions at the Site which included two abandoned heating oil tanks and various empty five-gallon containers near the southwest portion of the Site. No evidence of staining was observed in the vicinity of the ASTs or empty containers.

8.0 CONCLUSIONS

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located southeast of the interaction of Meadow Drive and Centerpoint Parkway in Pontiac, Oakland County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed evidence of no RECs in connection with the Site.

9.0 DEVIATIONS/DATA GAPS

ARCADIS did not have a physical address for the Site. The lack of this information is considered a data gap.

10.0 ADDITIONAL SERVICES

No additional services were provided as part of the Phase I ESA.

11.0 SIGNATURE OF ENVIRONMENTAL PROFESSIONAL

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



Douglas M. Lindsay, PG, LSP
Senior Geologist



for
Stephen P. Zins, LPG
Senior Geologist

12.0 REFERENCES

City of Pontiac

- Fire Department
- Building Department

Oakland County

- Health Department
- Assessor's Office

State of Michigan

- Michigan Department of Environmental Quality

2. Reports, Plans and Other Documents Reviewed:

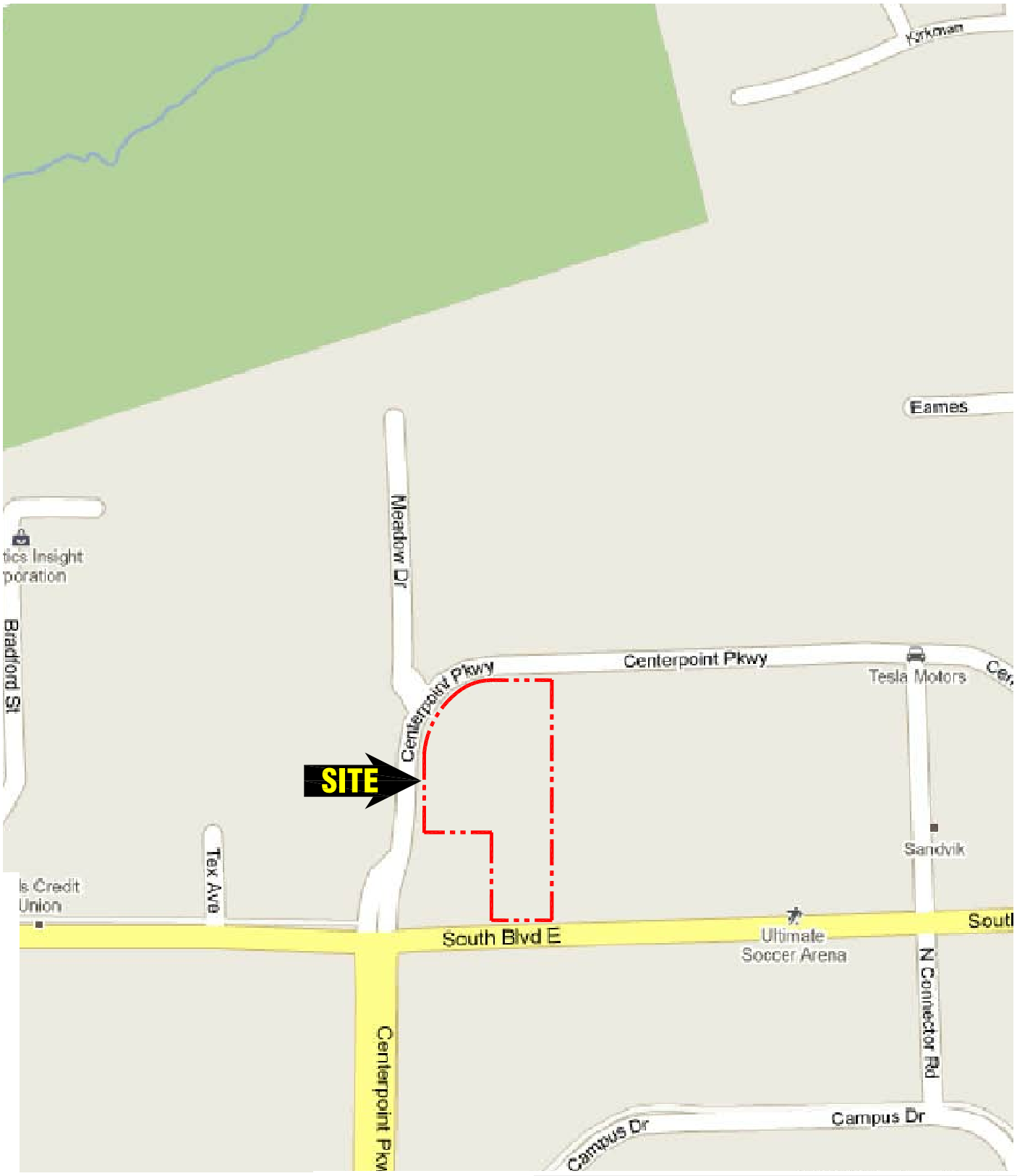
EDR:

- *The EDR Aerial Photo Decade Package,* Inquiry Number 2593421.5, September 21, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2662638.1s, December 18, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Sanborn Map Report*, Inquiry Number 2593421.3, September 16, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Topographic Map Report*, Inquiry Number 2593421.4, September 16, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *RCRA Faciltiy Investigation (RFI) Report*, GM Truck Group, Pontiac, Michigan dated October 21, 2005, Conestoga-Rovers & Associates (CRA),.

Oakland County

- Assessor's Map
- Property Card
- Tax Parcel ID
- Ownership Data

FIGURES



SOUTH CENTERPOINT PARKWAY
PONTIAC, MICHIGAN

SITE VICINITY MAP

ARCADIS

FIGURE
1

CITY:MANCHESTER DIV/GROUP:ENVCAD DB:T.HALLIWELL PM:S.McCARTHY TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Documents and Settings\tphalliw\Desktop\site 3\BN015317-0004-3.dwg LAYOUT: FIGURE 1 SAVED: 1/13/2010 11:55 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 1/13/2010 11:55 AM BY: HALLIWELL, TRISH
XREFS: IMAGES: PROJECTNAME: ---
aerial-june-07.jpg
locus-2.jpg
topo2.jpg

CITY:(Read) DIV/GROUP:(Read) DB:(Read) LD:(Opt) PIC:(Opt) PM:(Read) TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
G:\CAD\BN0 Files\010-15317-00\010-15317-04\BN015317-0004\site 9\BN015317-0004-3.dwg LAYOUT: FIGURE 2 SAVED: 1/13/2010 12:01 PM ACADVER: 17.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 1/15/2010 8:49 AM BY: HALLIWELL, TRISH
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sent4June-07.jpg
topo1-2.jpg
topo2.jpg

MEADOW DRIVE

CENTERPOINT PARKWAY

SOUTH BOULEVARD EAST

COMMERCIAL BUILDING (FSS)

WOODED

STORMWATER BASINS

UNDEVELOPED

UNDEVELOPED WOODED

COMMERCIAL BUILDING (ULTIMATE SOCCER ARENA)

COMMERCIAL BUILDING (ULTIMATE SOCCER ARENA)

WOODED

UNDEVELOPED

RESIDENCE

COMMERCIAL BUILDING PARKING (GM)

PARKING

COMMERCIAL BUILDING (GM)

COMMERCIAL BUILDING PARKING (GM)

LEGEND:

SITE BOUNDARY

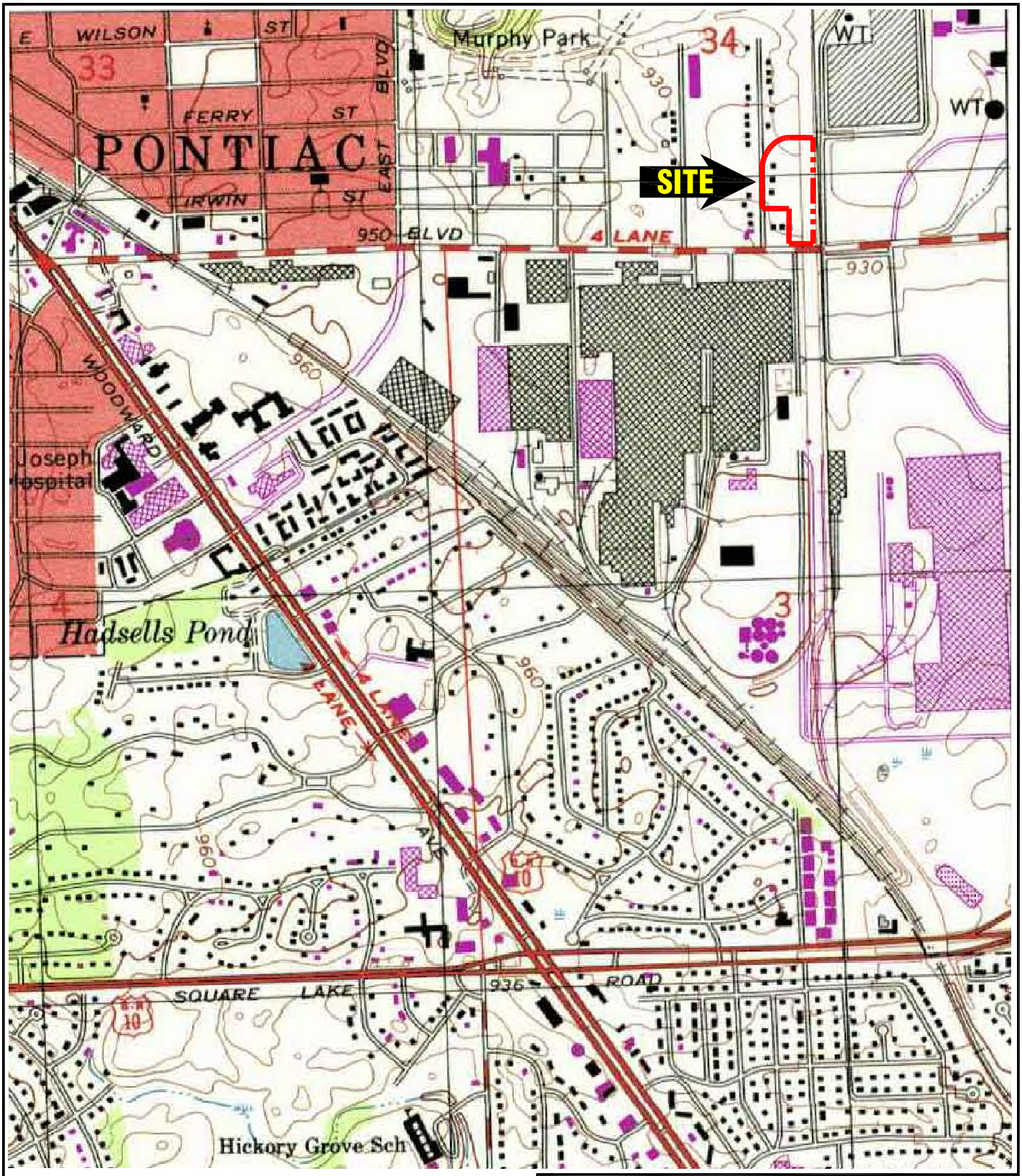
NOT TO SCALE

SOUTH CENTERPOINT PARKWAY
PONTIAC, MICHIGAN

SITE PLAN

ARCADIS

FIGURE
2



QUAD: PONTIAC SOUTH
DATED: 1997

SOUTH CENTERPOINT PARKWAY
PONTIAC, MICHIGAN

TOPOGRAPHIC MAP

ARCADIS

FIGURE
3

CITY:MANCHESTER DIV/GROUP:ENVCAD DB:T.HALLIWELL PM:S.McCARTHY TM:(Opt) LYR:(Opt)ON=*;OFF=*REF*
C:\Documents and Settings\jphalliw\Desktop\site 3\BN015317-2004-3.dwg LAYOUT: FIGURE 3 SAVED: 1/13/2010 11:55 AM ACADVER: 17.1S (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 1/13/2010 11:56 AM BY: HALLIWELL, TRISH

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locus-2.jpg
topo2.jpg

APPENDIX A

User Questionnaire

LFR ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: Dec. 29, 2009
Site Name: NO ETKINS LOTS 189 AND 190 Your Name: Robert W. Hare
Site Location: Pontiac, MI Your Title: Director, Environmental
Relationship to Site: ☐ Owner ☐ Occupant ☐ Purchaser X Other

Length of Time Associated with Site: 90 days

Please review and complete this questionnaire which will assist LFR in completing our site assessment. If sufficient space in not provided, please compete your response on a separate sheet of paper and attach it to this questionnaire.

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

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

2. Are you aware of any activity or land use limitations, such as engineering controls (for contaminant control), land use restrictions or institutional controls, that are in place at the Site and/or have been filed or recorded in a registry under federal, tribal, state or local law?

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

781.356.7300 m
781.356.2211 f
194 Forbes Road
Braintree, Massachusetts 02184-2668
Offices Nationwide
www.lfr.com

LFR

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

☐ Yes ☐ No X Unknown ☐ N/A

If Yes, please explain: _____

_____

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

a) Do you know the past uses of the Site?

☐ Yes ☐ No X Unknown ☐ N/A

If Yes, please explain: _____

_____

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

☐ Yes ☐ No X Unknown ☐ N/A

If Yes, please explain: _____

_____

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

☐ Yes ☐ No X Unknown ☐ N/A

If Yes, please explain: _____

_____

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

☐ Yes ☐ No X Unknown ☐ N/A

If Yes, please explain: _____

_____

LFR

5. Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Site?

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

6. Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on or from the Site?

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

7. Do you know of any notices from any governmental entity regarding any possible violation of environmental laws or possible liability relating to hazardous substances or petroleum products at the Site?

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

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

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

   _____

LFR

9. Does the Site's purchase price reasonably reflect the fair market value of the property?

☐ Yes ☐ No X Unknown ☐ N/A

If No, do you know the reason for lower purchase price? Is it possible that the lower purchase price is because of contamination known or believed to be present at the Site?

☐ Yes ☐ No ☐ Unknown X N/A

If Yes, please explain: _____

_____

APPENDIX B

Historical Research Documentation

Aerial Photographs

NO ETKINS LOTS 189 AND 190

Pontiac, MI 48341

Inquiry Number: 2593421.5

September 21, 2009

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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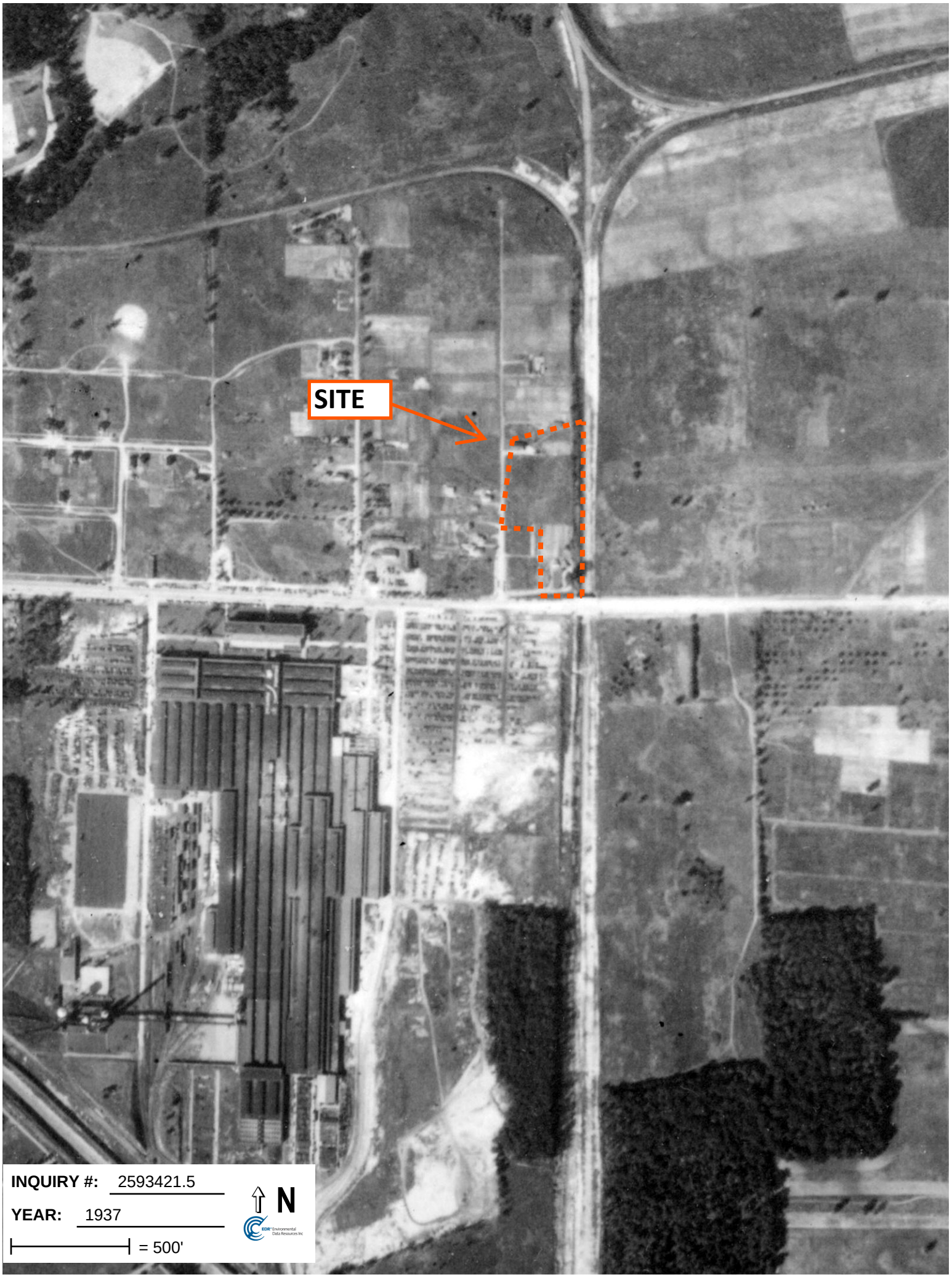
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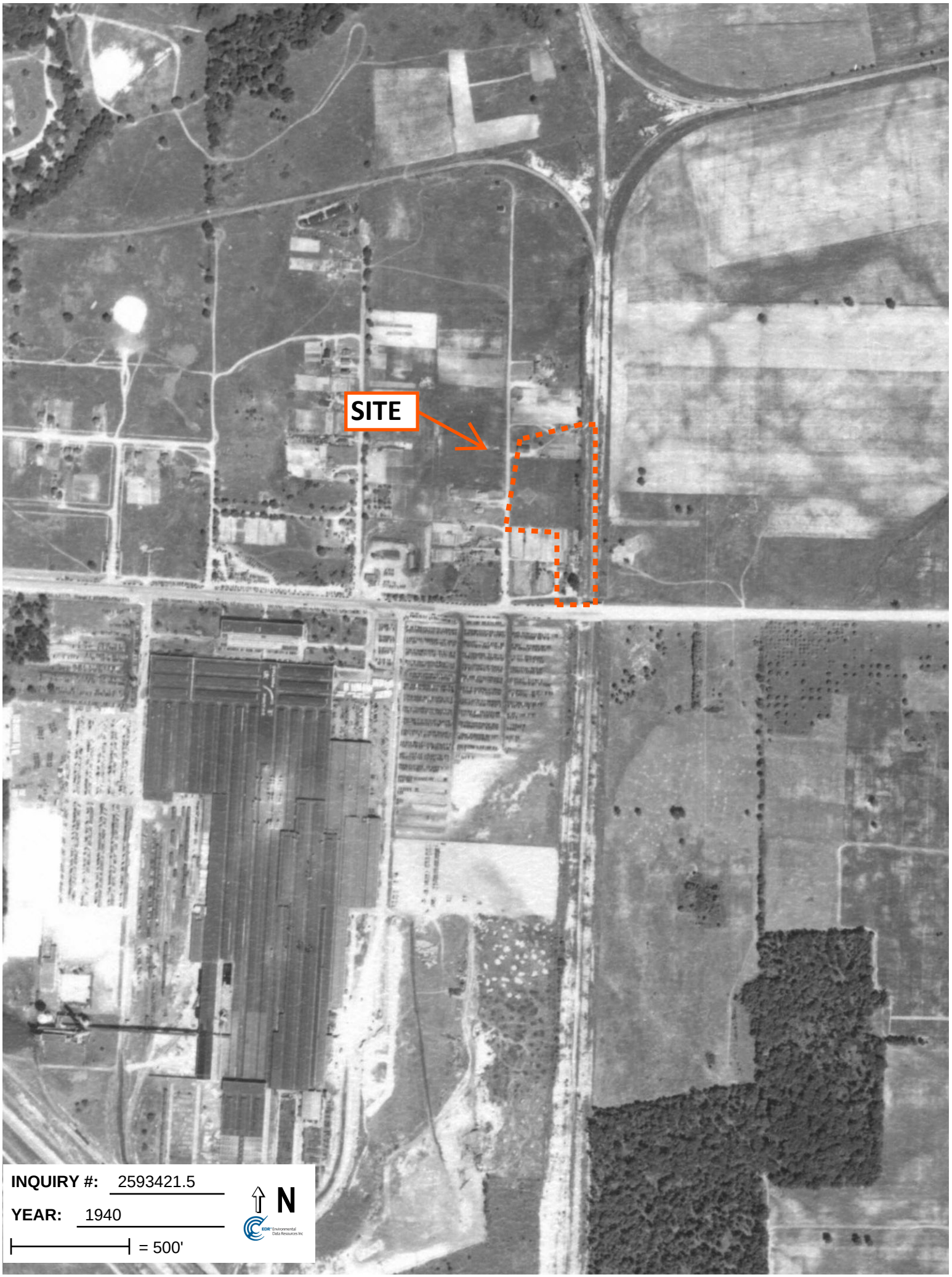
Aerial Photography September 21, 2009

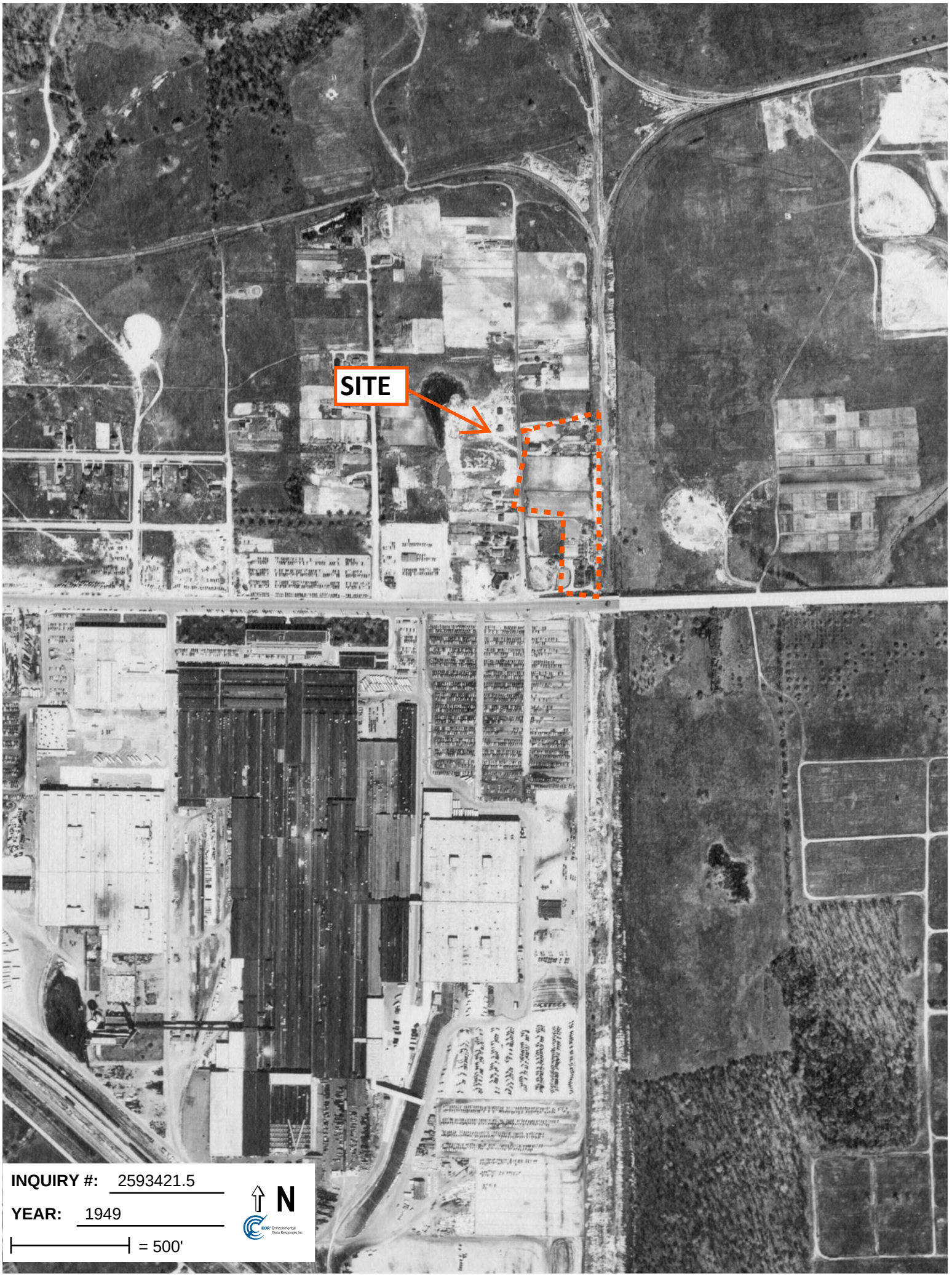
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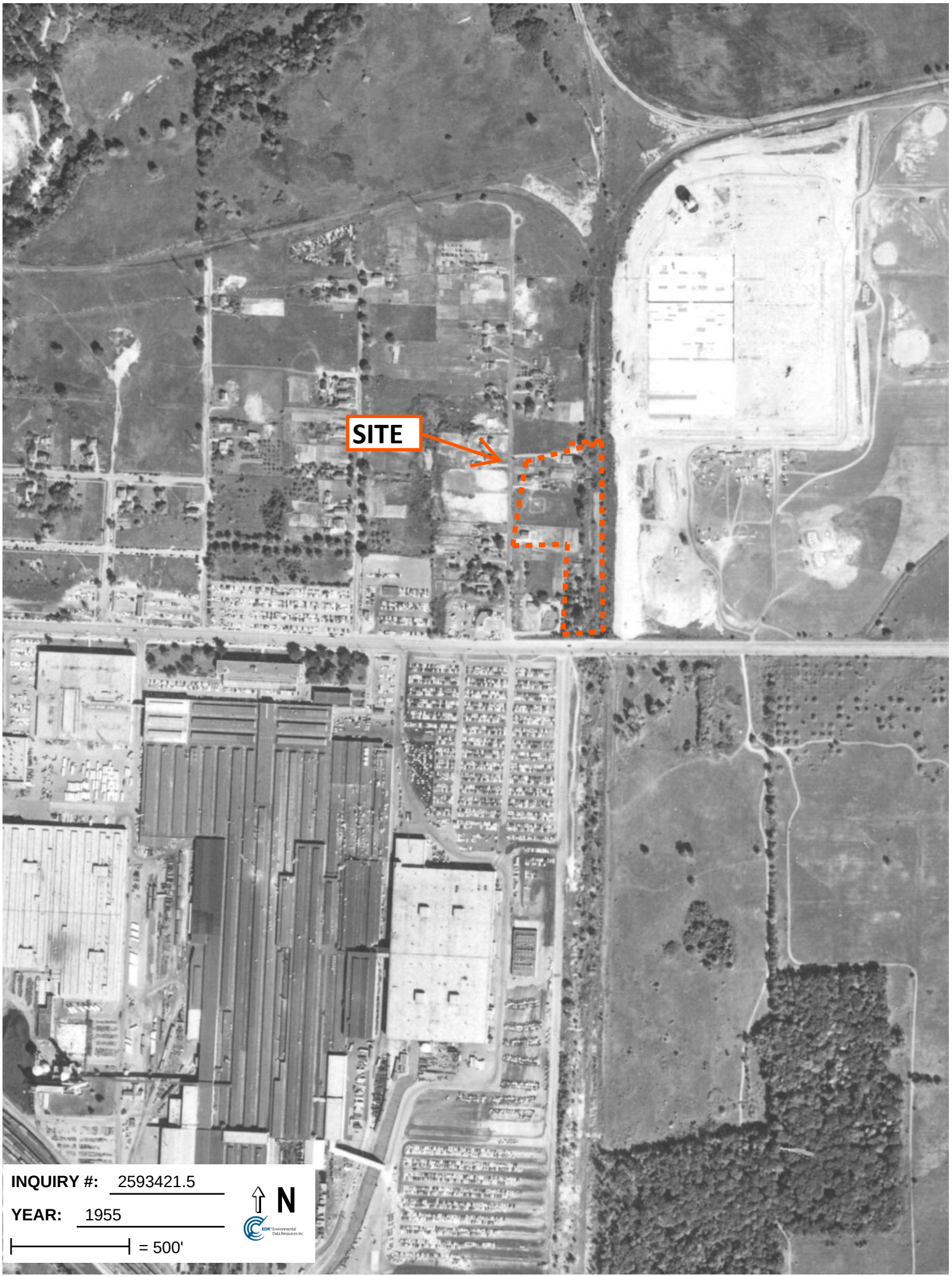
NO ETKINS LOTS 189 AND 190
Pontiac, MI 48341

Year	***Scale***	***Details***	***Source***
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	AAA
1940	Aerial Photograph. Scale: 1"=500'	Flight Year: 1940	AAA
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Detroit Edison
1955	Aerial Photograph. Scale: 1"=500'	Flight Year: 1955	CSS
1961	Aerial Photograph. Scale: 1"=500'	Flight Year: 1961	Detroit Edison
1967	Aerial Photograph. Scale: 1"=500'	Flight Year: 1967	Detroit Edison
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1980	Aerial Photograph. Scale: 1"=500'	Flight Year: 1980	SEMCOG
1993	Aerial Photograph. Scale: 1"=600'	Flight Year: 1993	NAPP
2000	Aerial Photograph. Scale: 1"=500'	Flight Year: 2000	SEMCOG
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR

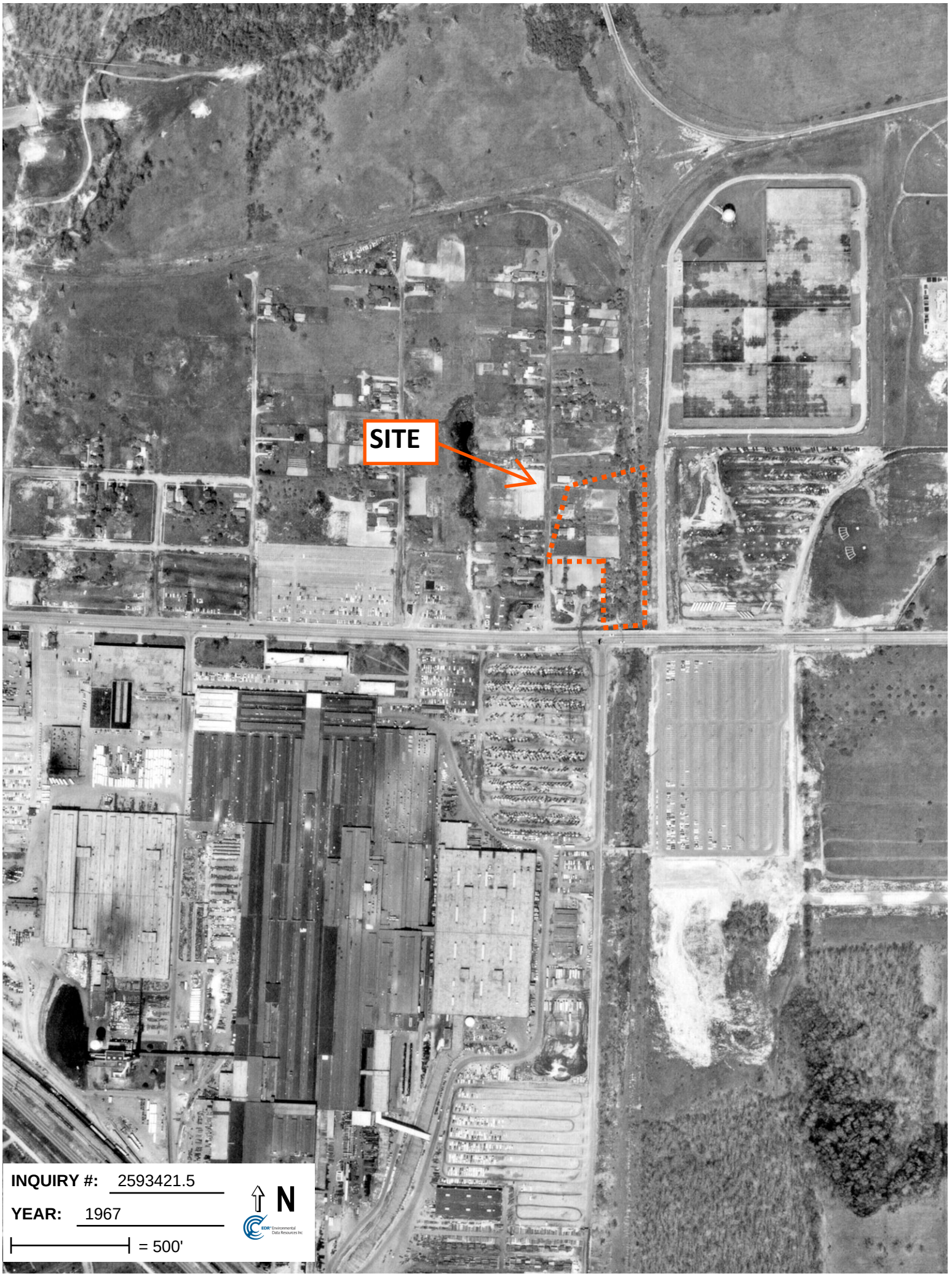

SITE
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YEAR: 1937
= 500'
N


SITE
INQUIRY #: 2593421.5
YEAR: 1940
= 500'
N

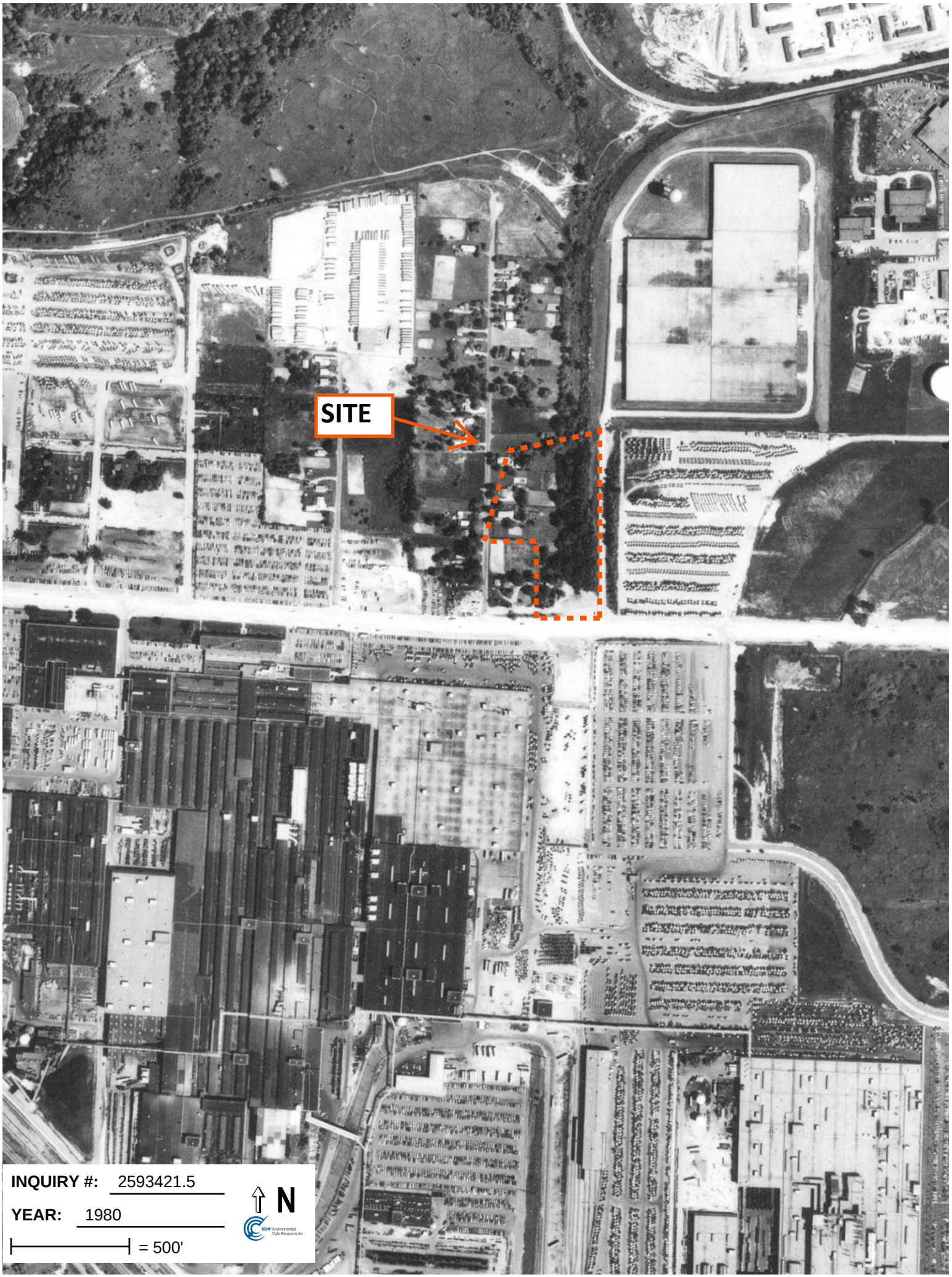

SITE
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YEAR: 1949
= 500'
N

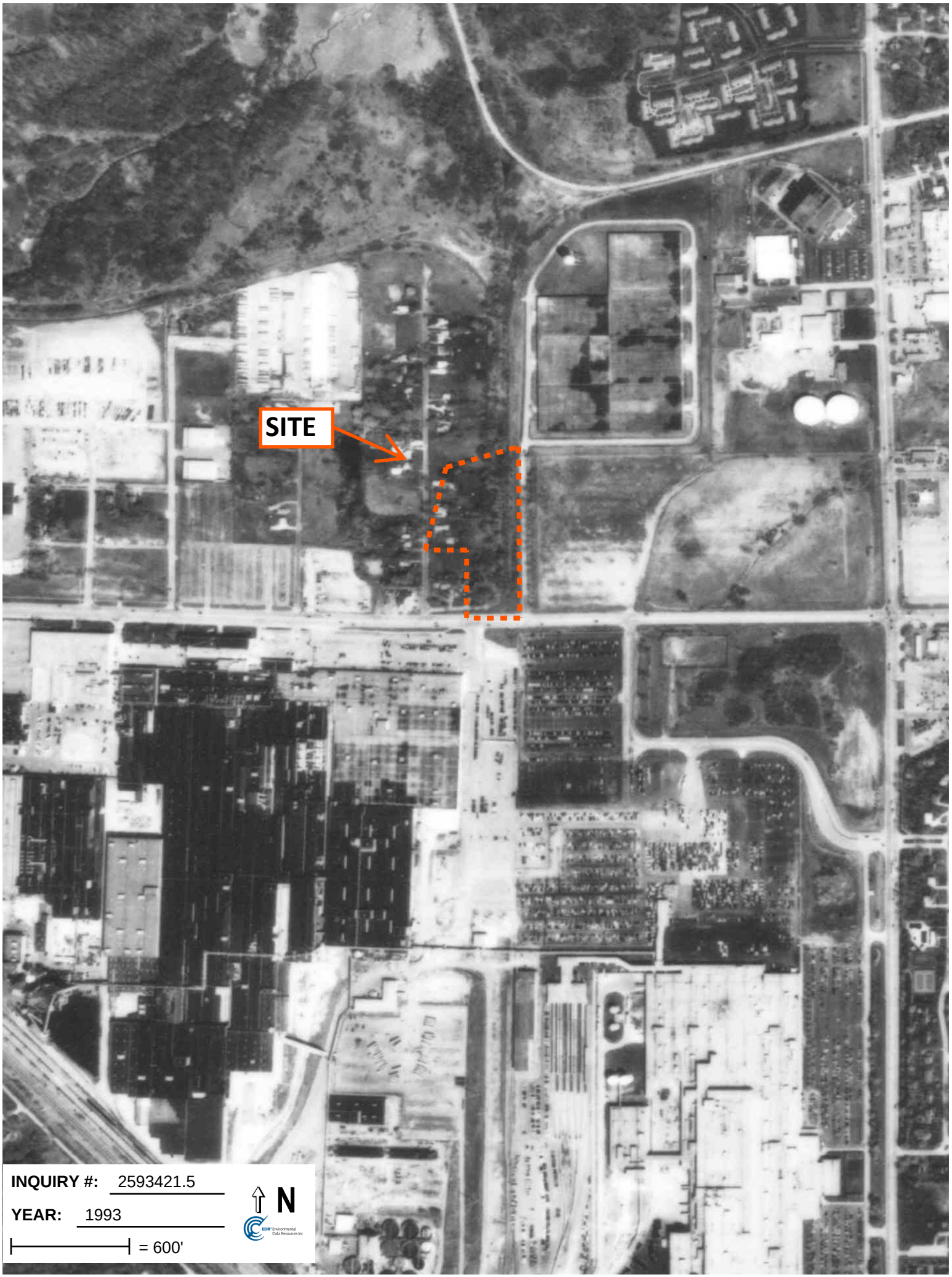

SITE
INQUIRY #: 2593421.5
YEAR: 1955
= 500'
N

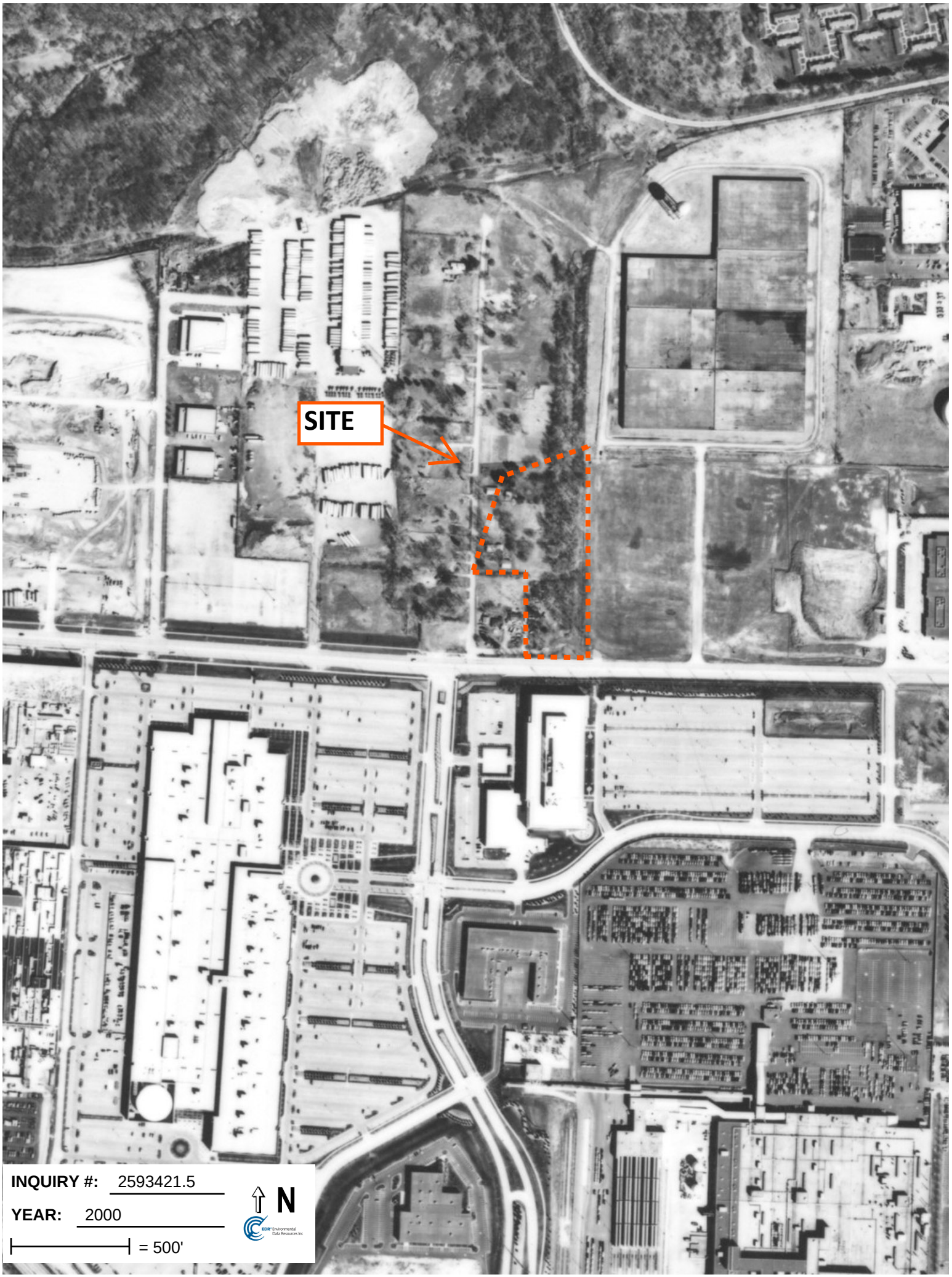

SITE
INQUIRY #: 2593421.5
YEAR: 1961
= 500'
N

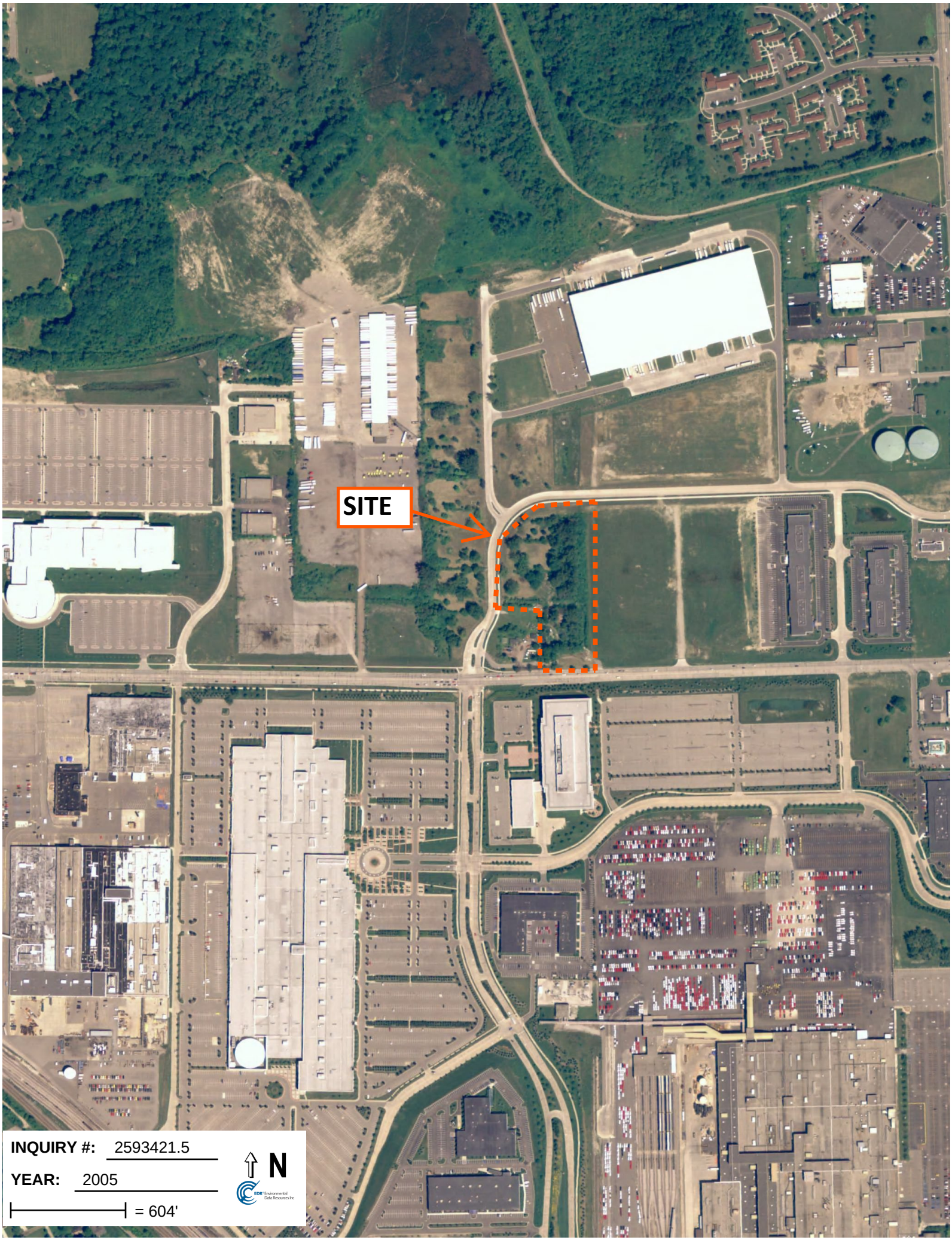

SITE
INQUIRY #: 2593421.5
YEAR: 1967
= 500'
N


SITE
INQUIRY #: 2593421.5
YEAR: 1972
= 600'
N


SITE
INQUIRY #: 2593421.5
YEAR: 1980
= 500'
N


SITE
INQUIRY #: 2593421.5
YEAR: 1993
= 600'
N


SITE
INQUIRY #: 2593421.5
YEAR: 2000
= 500'
N


SITE
INQUIRY #: 2593421.5
YEAR: 2005
= 604'
N

Sanborn Maps

NO ETKINS LOTS 189 AND 190

Pontiac, MI 48341

Inquiry Number: 2593421.3

September 16, 2009

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

9/16/09

Site Name:

NO ETKINS LOTS 189 AND 190
Pontiac, MI 48341

EDR Inquiry # 2593421.3

Client Name:

LFR Inc
194 Forbes Road
Braintree, MA 02184

Contact: Sean Drain

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by LFR Inc were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name:
Address: NO ETKINS LOTS 189 AND 190
City, State, Zip: Pontiac, MI 48341
Cross Street:
P.O. # NA
Project: NA
Certification # 8A92-4E90-9FB2

Sanborn® Library search results
Certification # 8A92-4E90-9FB2

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

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Topographic Maps

NO ETKINS LOTS 189 AND

Pontiac, MI 48341

Inquiry Number: 2593421.4

September 16, 2009

The EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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

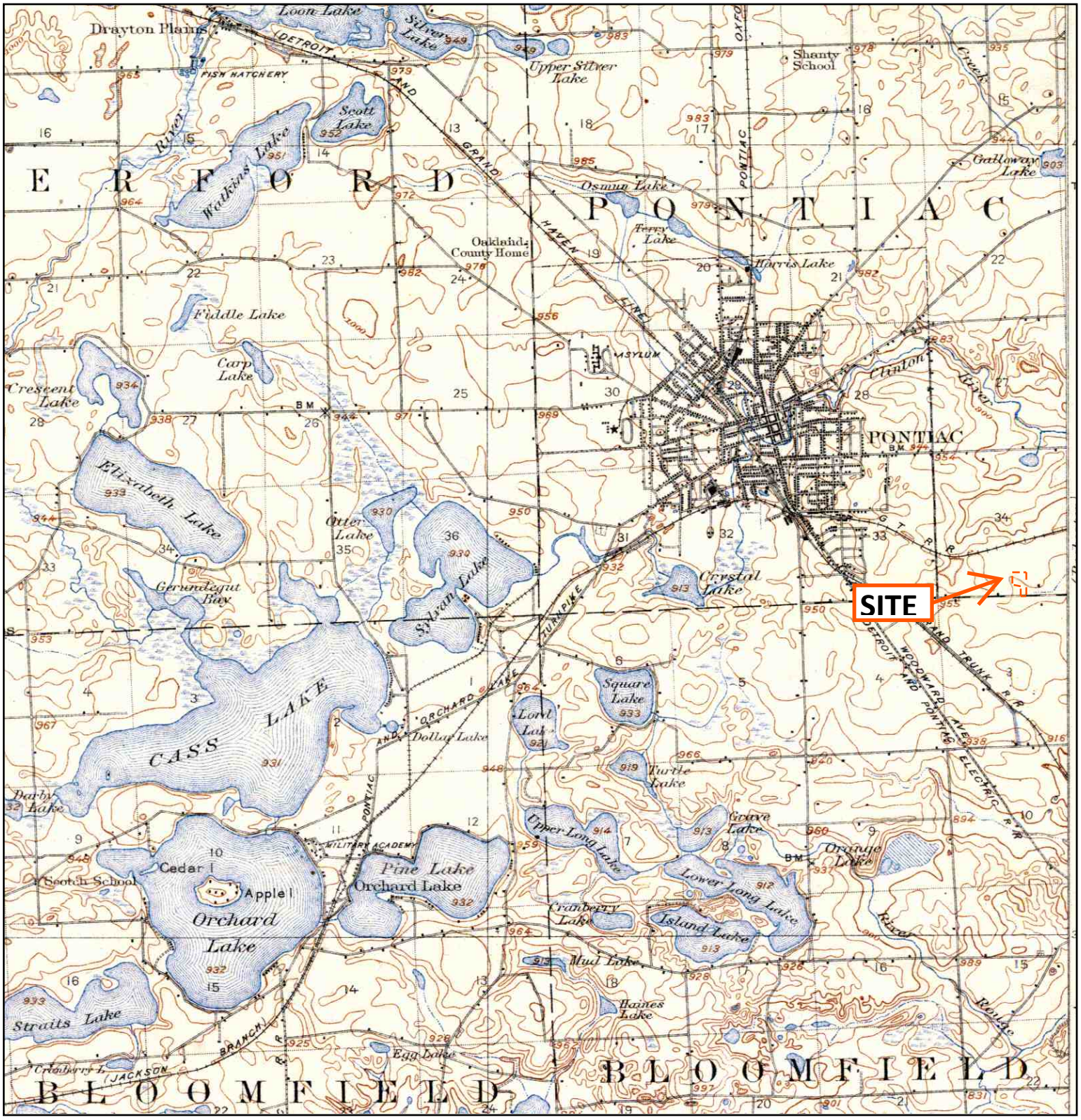
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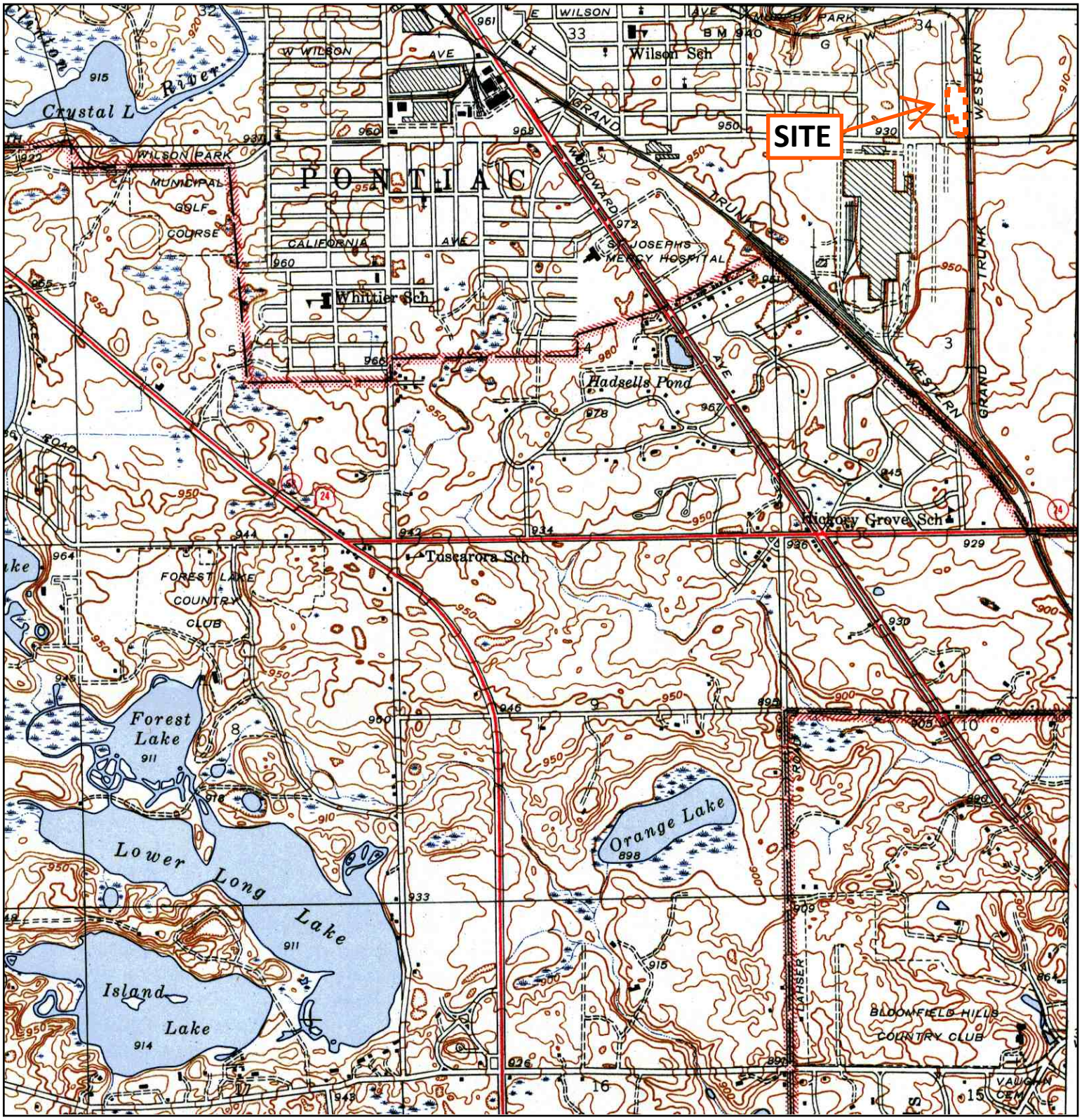
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Historical Topographic Map



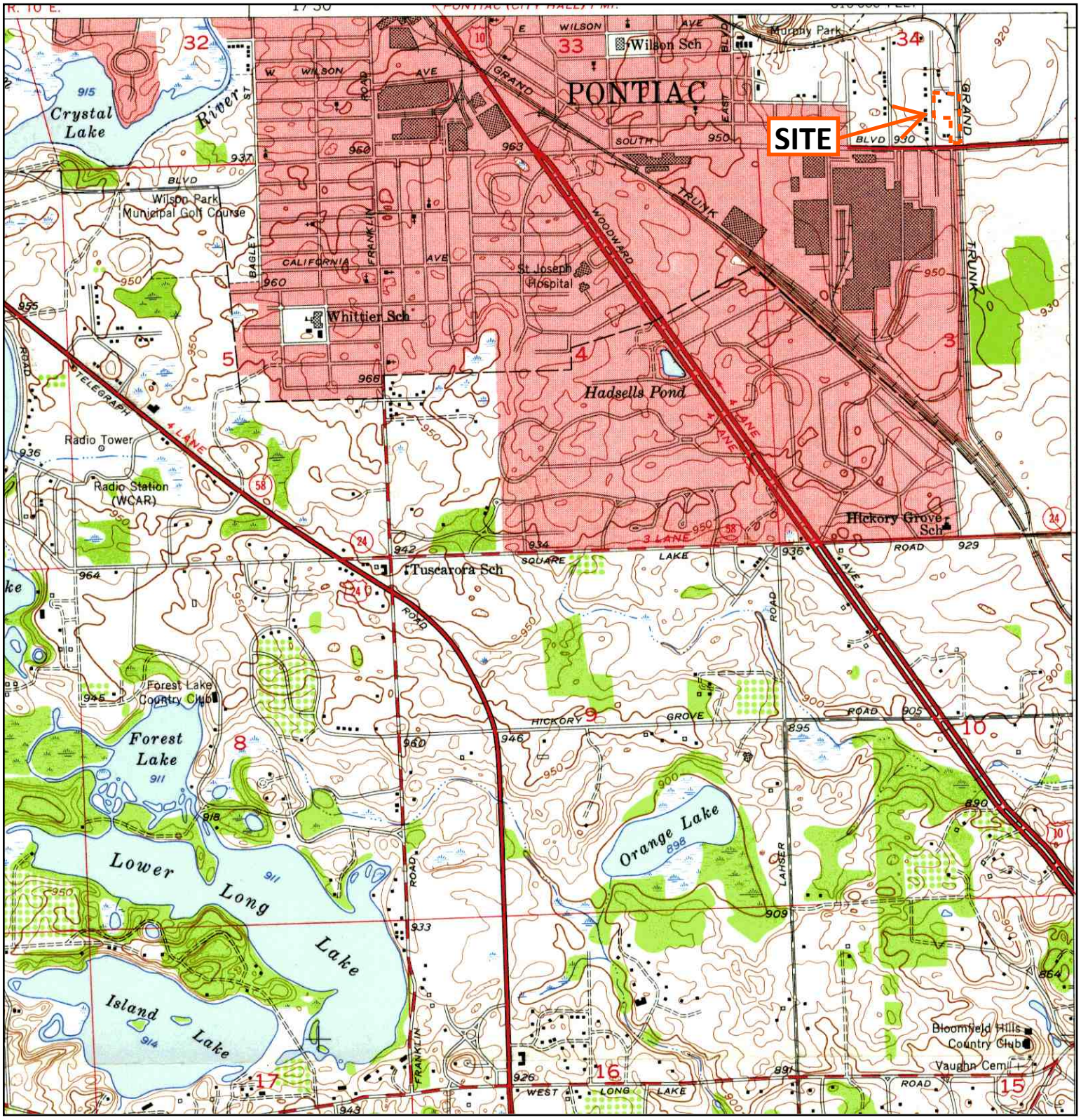
N	TARGET QUAD NAME: PONTIAC MAP YEAR: 1907 SERIES: 15 SCALE: 1:62500	SITE NAME: ADDRESS: NO ETKINS 189 - 190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

Historical Topographic Map



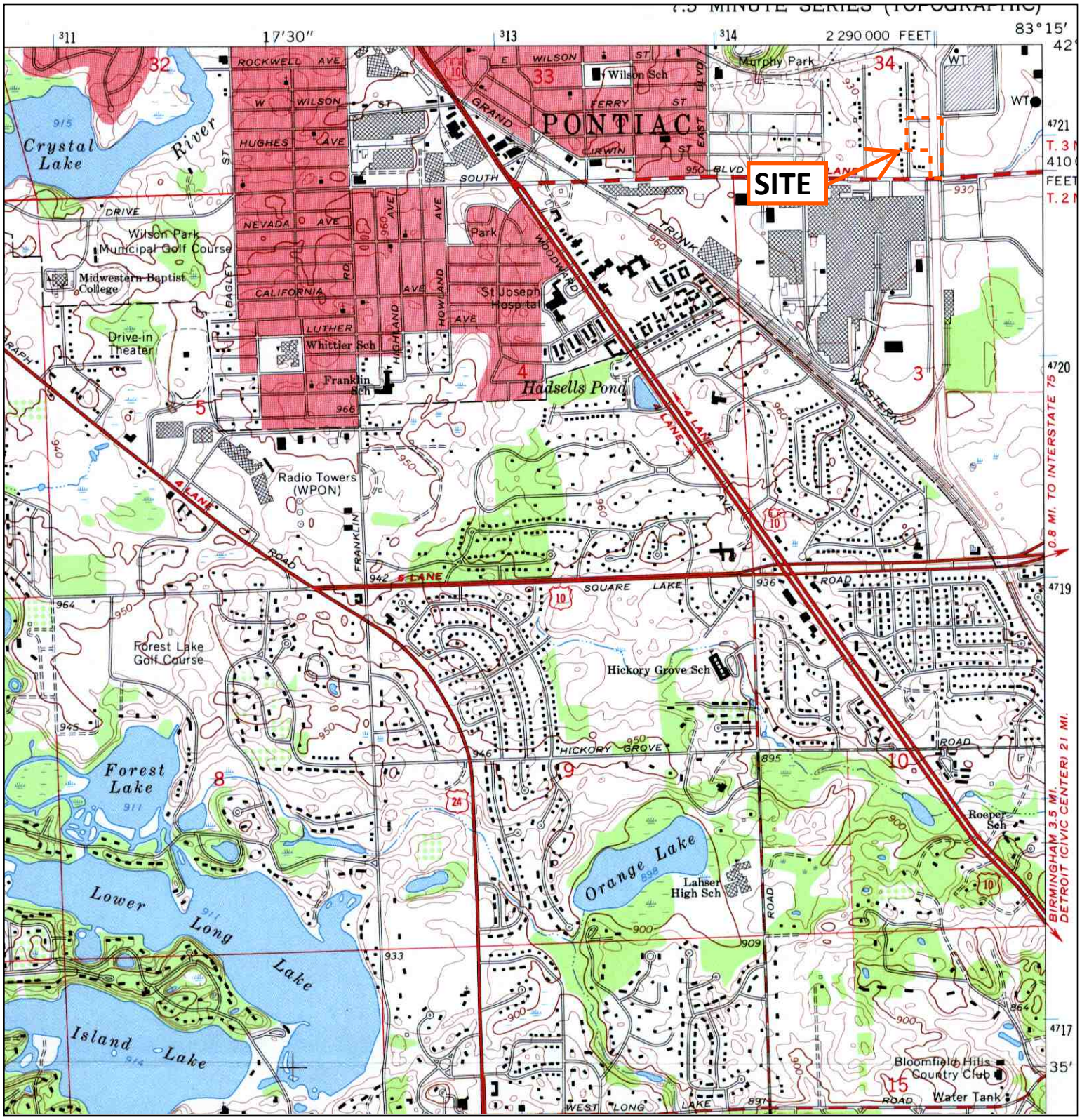
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

Historical Topographic Map



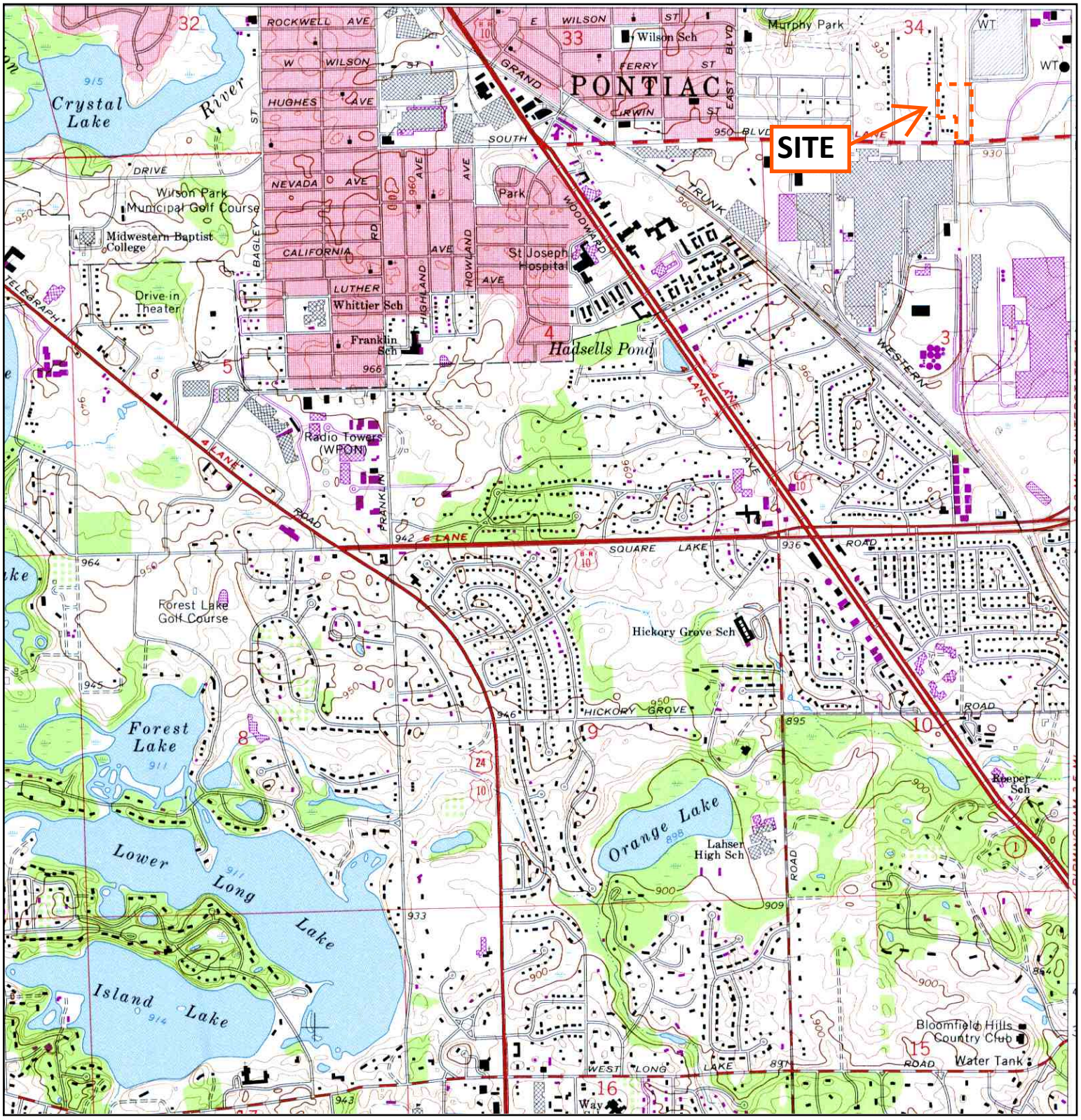
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

Historical Topographic Map



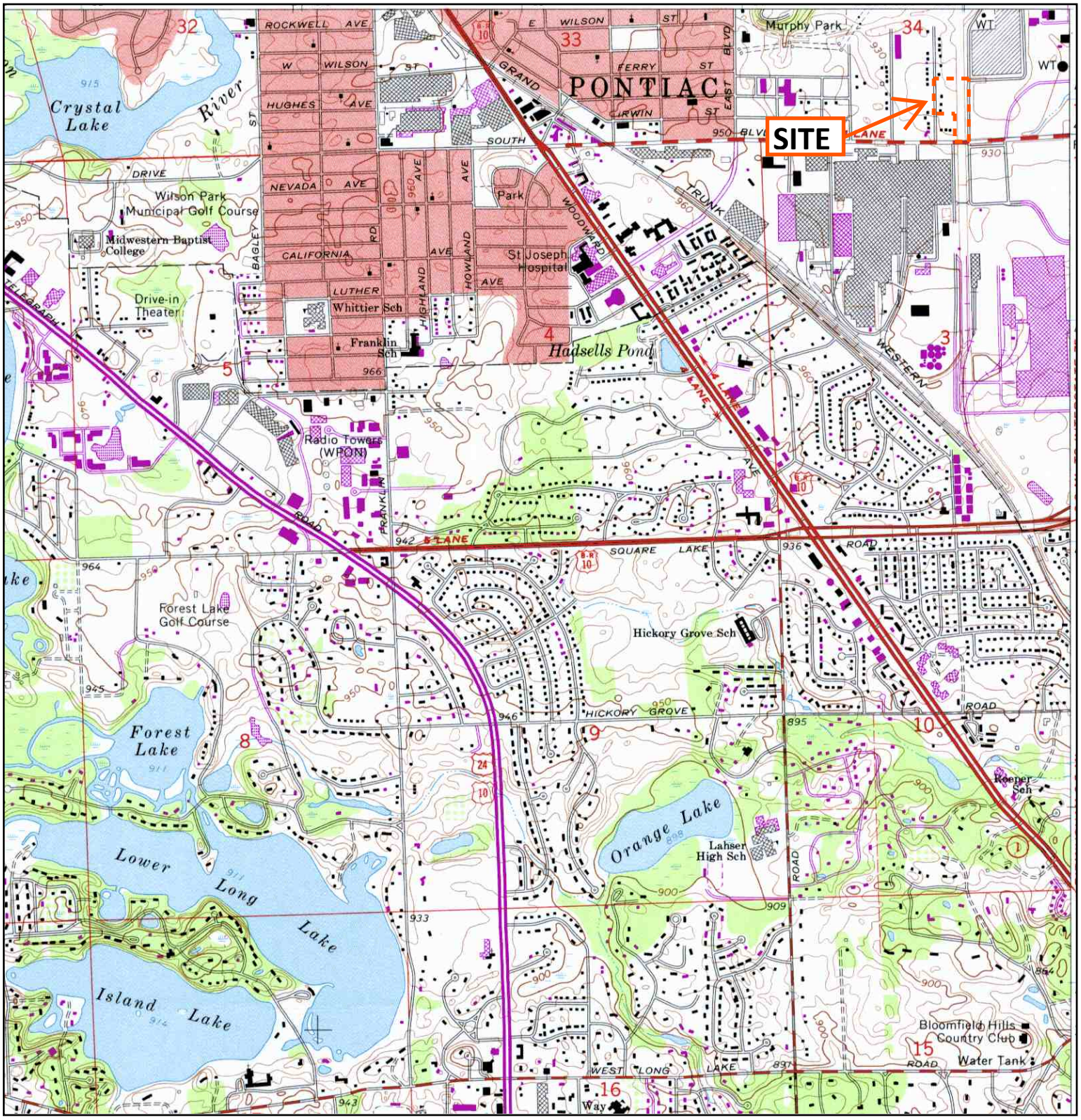
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS LOTS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009

Historical Topographic Map



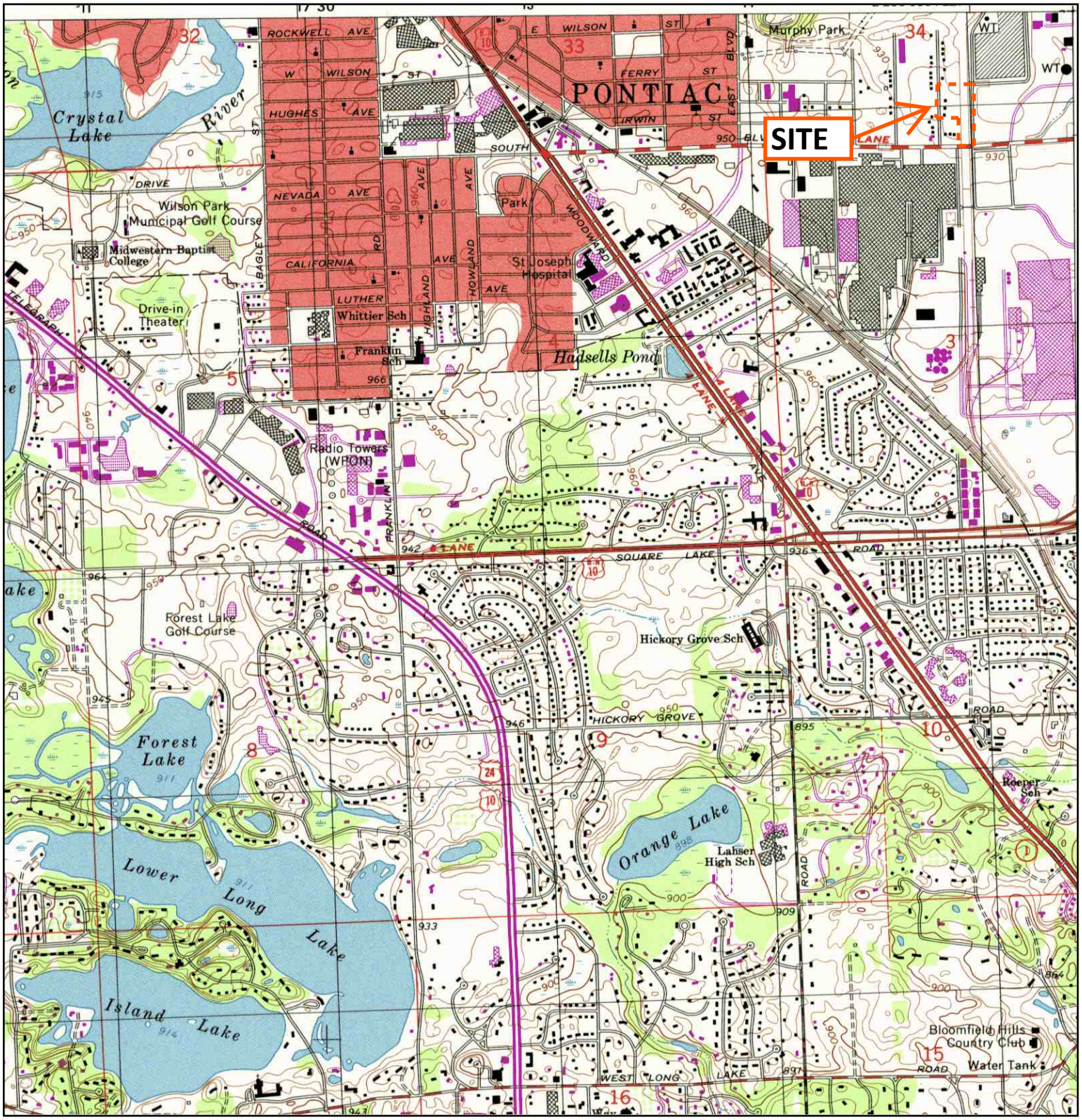
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1973 PHOTOREVISED FROM:1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1983 PHOTOREVISED FROM:1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: ADDRESS: NO ETKINS 189-190 Pontiac, MI 48341 LAT/LONG: 42.6205 / 83.2576	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2593421.4 RESEARCH DATE: 09/16/2009

APPENDIX C

EDR Radius Map Report

SOUTH CENTERPOINT PARKWAY

NO ETKINS LOTS 189 AND 190

Pontiac, MI 48341

Inquiry Number: 2662638.1s

December 18, 2009

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
Toll Free: 800.352.0050
www.edrnet.com

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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

CENTERPOINT PARKWAY
PONTIAC, MI 48341

COORDINATES

Latitude (North):	42.621200 - 42° 37' 16.3''
Longitude (West):	83.256400 - 83° 15' 23.0''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314949.6
UTM Y (Meters):	4721004.5
Elevation:	910 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	42083-F3 PONTIAC NORTH, MI
Most Recent Revision:	1997
East Map:	42083-F2 ROCHESTER, MI
Most Recent Revision:	1997
Southeast Map:	42083-E2 BIRMINGHAM, MI
Most Recent Revision:	1981
South Map:	42083-E3 PONTIAC SOUTH, MI
Most Recent Revision:	1997

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:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List

EXECUTIVE SUMMARY

Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

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

Federal RCRA generators list

RCRA-SQG ---------- RCRA - Small Quantity Generators
RCRA-CESQG ---------- RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

US ENG CONTROLS ---------- Engineering Controls Sites List

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS ---------- Contaminated Sites

State and tribal landfill and/or solid waste disposal site lists

SWF/LF ---------- Solid Waste Facilities Database

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

UST ---------- Underground Storage Tank Facility List
AST ---------- Aboveground Tanks
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL ---------- Engineering and Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

EXECUTIVE SUMMARY

Local Lists of Landfill / Solid Waste Disposal Sites

ODI	Open Dump Inventory
DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations
HIST LF	Inactive Solid Waste Facilities
INDIAN ODI	Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL	Clandestine Drug Labs
DEL SHWS	Delisted List of Contaminated Sites
CDL	Clandestine Drug Lab Listing
US HIST CDL	National Clandestine Laboratory Register

Local Land Records

LIENS 2	CERCLA Lien Information
LUCIS	Land Use Control Information System
LIENS	Lien List

Records of Emergency Release Reports

HMIRS	Hazardous Materials Information Reporting System
SPILLS	Pollution Emergency Alerting System

Other Ascertainable Records

DOT OPS	Incident and Accident Data
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
MINES	Mines Master Index File
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)
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
RADINFO	Radiation Information Database
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System
UIC	Underground Injection Wells Database
DRYCLEANERS	Drycleaning Establishments
NPDES	List of Active NPDES Permits
AIRS	Permit and Emissions Inventory Data
INDIAN RESERV	Indian Reservations
SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing
PCB TRANSFORMER	PCB Transformer Registration Database
COAL ASH	Coal Ash Disposal Sites

EXECUTIVE SUMMARY

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified 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.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

CERC-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 06/23/2009 has revealed that there is 1 CERC-NFRAP site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GMC TRUCK & COACH DIV PONTIAC	***660 S BLVD E***	***WSW 1/8 - 1/4 (0.235 mi.)***	***3***	***9***

Federal RCRA CORRACTS facilities list

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 09/15/2009 has revealed that there is 1

CORRACTS site within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GMC TRUCK & COACH DIV PONTIAC	*660 S BLVD E*	*WSW 1/8 - 1/4 (0.235 mi.)*	*3*	*9*

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: 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. 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). 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 11/12/2008 has revealed that there is 1 RCRA-TSDF site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GMC TRUCK & COACH DIV PONTIAC	*660 S BLVD E*	*WSW 1/8 - 1/4 (0.235 mi.)*	*3*	*9*

Federal RCRA generators list

RCRA-LQG: 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. 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GMC TRUCK & COACH DIV PONTIAC	*660 S BLVD E*	*WSW 1/8 - 1/4 (0.235 mi.)*	*3*	*9*

Federal institutional controls / engineering controls registries

US INST CONTROL: 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.

A review of the US INST CONTROL list, as provided by EDR, and dated 10/01/2009 has revealed that there is 1 US INST CONTROL site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GMC TRUCK & COACH DIV PONTIAC	*660 S BLVD E*	*WSW 1/8 - 1/4 (0.235 mi.)*	*3*	*9*

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

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 09/01/2009 has revealed that there are 6 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GM - PONTIAC CENTERPOINT CAMPU Facility Status: Open Facility Status: Open **Additional key fields are available in the Map Findings section*	660 S BOULEVARD EAST	WSW 1/4 - 1/2 (0.308 mi.)	5	33
KMART #4323 Facility Status: Closed	***975 S OPDYKE ROAD***	***E 1/4 - 1/2 (0.361 mi.)***	***7***	***35***
SOUTH BOULEVARD & UPDYKE STATI Facility Status: Closed Facility Status: Open	***1501 S OPDYKE RD***	***E 1/4 - 1/2 (0.362 mi.)***	***A8***	***36***
WATER & SEWER Facility Status: Closed	***522 S OPDYKE RD***	***ENE 1/4 - 1/2 (0.378 mi.)***	***10***	***39***
AUBURN PONTIAC Facility Status: Closed Facility Status: Closed	***500 S OPDYKE RD***	***ENE 1/4 - 1/2 (0.402 mi.)***	***11***	***41***
MOOTE ELECTRICAL, INC Facility Status: Closed	490 S OPDYKE RD	NE 1/4 - 1/2 (0.421 mi.)	12	51

ADDITIONAL ENVIRONMENTAL RECORDS

Other Ascertainable Records

RCRA-NonGen: 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. 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). Non-Generators do not presently generate hazardous waste.

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-NonGen site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SWINTERS SVC CTR	***807 SOUTH BLVD***	***W 0 - 1/8 (0.064 mi.)***	***1***	***7***

EXECUTIVE SUMMARY

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 09/14/2009 has revealed that there are 4 BEA sites within approximately 0.5 miles of the target property.

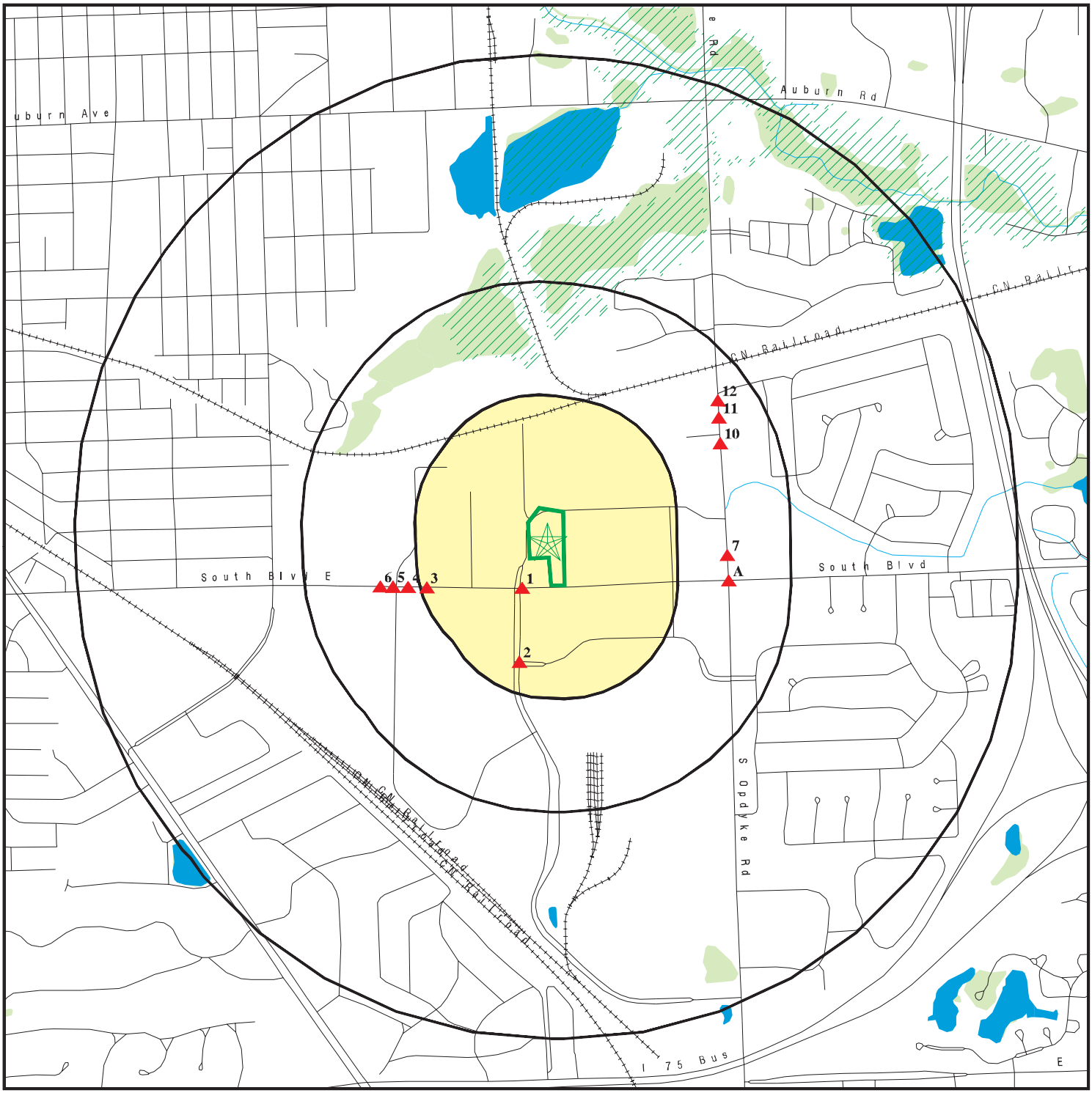
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
MOTOWN MOTION PICTURES LLC	1999 CENTERPOINT PARKWA	SSW 1/8 - 1/4 (0.182 mi.)	2	9
SOUTH BOULEVARD COMMERCIAL BUI	655 SOUTH BOULEVARD EAS	WSW 1/4 - 1/2 (0.276 mi.)	4	33
OFFICE BUILDING	585 SOUTH BOULEVARD EAS	W 1/4 - 1/2 (0.335 mi.)	6	35
MOBIL STATION #03-M5G (FORMER)	1501 SOUT OPDYKE	E 1/4 - 1/2 (0.363 mi.)	A9	39

EXECUTIVE SUMMARY

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

Site Name	Database(s)
ADAMS AND AUBURN RD DEVELOPMENT	SHWS
SHELL DRY WELL 1 TELEGRAPH	SHWS
GM TRUCK AND BUS PONTIAC CENTRAL	SHWS
3951 JOSLYN RD	CERC-NFRAP, SHWS
KENNETT RD LF	SHWS
ASPHALT SPECIALIST INC	SHWS, DEL SHWS
871 SOUTH BLVD	CERC-NFRAP
WOODWARD AVE & SQUARE LAKE ROAD	LUST
SOUTH BLVD	ERNS
SOUTH BOULEVARD AND SANFORD CROSSI	ERNS
UAG MICHIGAN H1, LLC	BEA
SOUTH SAGINAW STREET PARCELS	BEA
UNIT 52 CENTERPOINT BUSINESS CAMPU	BEA
SOUTH FLINT GRAVEL, INC.	MINES
SOUTH HILL SAND & GRAVEL, INC.	MINES
SOUTH FLINT GRAVEL, INC.	MINES

OVERVIEW MAP - 2662638.1s

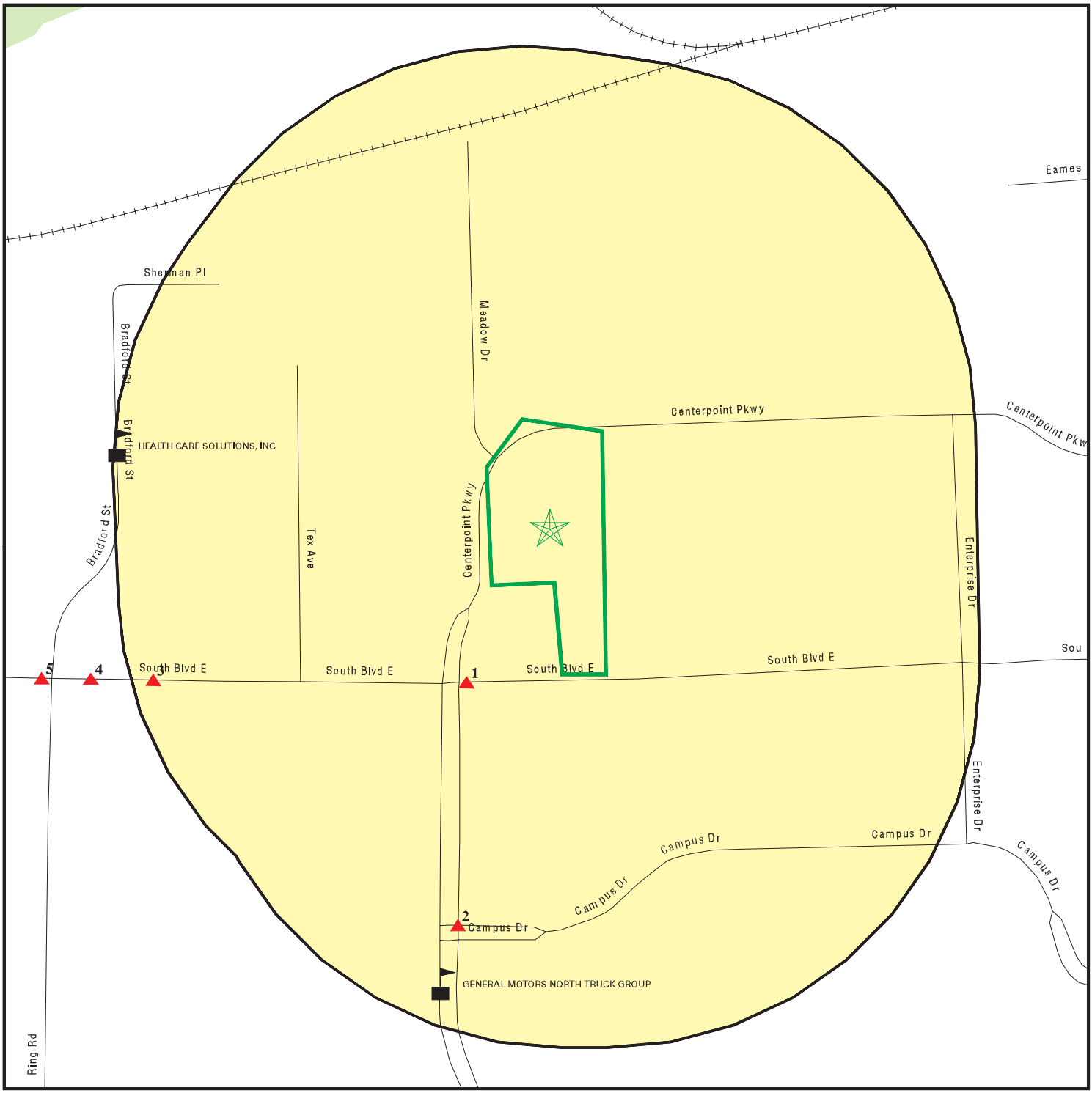


- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

SITE NAME:	
ADDRESS:	NO ETKINS LOTS 189 AND 190 Pontiac MI 48341
LAT/LONG:	42.6212 / 83.2564
CLIENT:	LFR Inc
CONTACT:	Sean Drain
INQUIRY #:	2662638.1s
DATE:	December 18, 2009 12:29 pm

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DETAIL MAP - 2662638.1s



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

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

N

SITE NAME:		CLIENT:	LFR Inc
ADDRESS:	NO ETKINS LOTS 189 AND 190 Pontiac MI 48341	CONTACT:	Sean Drain
		INQUIRY #:	2662638.1s
LAT/LONG:	42.6212 / 83.2564	DATE:	December 18, 2009 12:29 pm

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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
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
NPL LIENS		TP	NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.000	0	0	0	0	NR	0
Federal CERCLIS list								
CERCLIS		0.500	0	0	0	NR	NR	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP		0.500	0	1	0	NR	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS		1.000	0	1	0	0	NR	1
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF		0.500	0	1	0	NR	NR	1
Federal RCRA generators list								
RCRA-LQG		0.250	0	1	NR	NR	NR	1
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	1	0	NR	NR	1
Federal ERNS list								
ERNS		TP	NR	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS		1.000	0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.500	0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
LUST		0.500	0	0	6	NR	NR	6
INDIAN LUST		0.500	0	0	0	NR	NR	0
State and tribal registered storage tank lists								
UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0

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
INDIAN UST		0.250	0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL		0.500	0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.500	0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.500	0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.500	0	0	0	NR	NR	0
DEBRIS REGION 9		0.500	0	0	0	NR	NR	0
HIST LF		0.500	0	0	0	NR	NR	0
INDIAN ODI		0.500	0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		TP	NR	NR	NR	NR	NR	0
DEL SHWS		1.000	0	0	0	0	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
US HIST CDL		TP	NR	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		TP	NR	NR	NR	NR	NR	0
LUCIS		0.500	0	0	0	NR	NR	0
LIENS		TP	NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS		TP	NR	NR	NR	NR	NR	0
SPILLS		TP	NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.250	1	0	NR	NR	NR	1
DOT OPS		TP	NR	NR	NR	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
TRIS		TP	NR	NR	NR	NR	NR	0

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
TSCA		TP	NR	NR	NR	NR	NR	0
FTTS		TP	NR	NR	NR	NR	NR	0
HIST FTTS		TP	NR	NR	NR	NR	NR	0
SSTS		TP	NR	NR	NR	NR	NR	0
ICIS		TP	NR	NR	NR	NR	NR	0
PADS		TP	NR	NR	NR	NR	NR	0
MLTS		TP	NR	NR	NR	NR	NR	0
RADINFO		TP	NR	NR	NR	NR	NR	0
FINDS		TP	NR	NR	NR	NR	NR	0
RAATS		TP	NR	NR	NR	NR	NR	0
UIC		TP	NR	NR	NR	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
NPDES		TP	NR	NR	NR	NR	NR	0
AIRS		TP	NR	NR	NR	NR	NR	0
BEA		0.500	0	1	3	NR	NR	4
INDIAN RESERV		1.000	0	0	0	0	NR	0
SCRD DRYCLEANERS		0.500	0	0	0	NR	NR	0
PCB TRANSFORMER		TP	NR	NR	NR	NR	NR	0
COAL ASH		0.500	0	0	0	NR	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
West
< 1/8
0.064 mi.
338 ft.

SWINTERS SVC CTR
807 SOUTH BLVD
PONTIAC, MI 48341

RCRA-NonGen **1000827831**
FINDS **MID985645639**

Relative:
Higher

Actual:
921 ft.

RCRA-NonGen:

Date form received by agency:	12/31/2001
Facility name:	SWINTERS SVC CTR
Facility address:	807 SOUTH BLVD PONTIAC, MI 48341
EPA ID:	MID985645639
Contact:	JOHN SWINTER
Contact address:	807 SOUTH BLVD PONTIAC, MI 48341
Contact country:	Not reported
Contact telephone:	(313) 332-9810
Contact email:	Not reported
EPA Region:	05
Classification:	Non-Generator
Description:	Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:

Owner/operator name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	01/01/2002
Owner/Op end date:	Not reported

Owner/operator name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	01/01/2002
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No
Used oil fuel burner:	No
Used oil processor:	No
User oil refiner:	No
Used oil fuel marketer to burner:	No
Used oil Specification marketer:	No
Used oil transfer facility:	No

SWINTERS SVC CTR (Continued) **1000827831**

Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 07/13/1992
Facility name: SWINTERS SVC CTR
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110003672963

Environmental Interest/Information System
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.

2
SSW
1/8-1/4
0.182 mi.
961 ft.

MOTOWN MOTION PICTURES LLC
1999 CENTERPOINT PARKWAY
PONTIAC, MI 48341

BEA **S109569569**
N/A

Relative:
Higher

Actual:
920 ft.

BEA:

Secondary Address:	Not reported
BEA Number:	4183
District:	Southeast MI
Date Received:	5/26/2009 12:59:00 AM
Submitter Name:	Motown Motion Pictures LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	Different Hazardous Substance(s)
Determination 20107A:	No Request
Reviewer:	mathewsb
Division Assigned:	RRD

3
WSW
1/8-1/4
0.235 mi.
1241 ft.

GMC TRUCK & COACH DIV PONTIAC EAST
660 S BLVD E
PONTIAC, MI 48053

RCRA-TSDF **1000881766**
CERC-NFRAP **48058GMCTR82**
CORRACTS
RCRA-LQG
US INST CONTROL
TRIS
FINDS
MANIFEST

Relative:
Higher

Actual:
931 ft.

RCRA-TSDF:

Date form received by agency:	02/27/2008
Facility name:	GENERAL MOTORS CORPORATION
Facility address:	2100 S OPDYKE RD PONTIAC, MI 48341
EPA ID:	MID005356902
Contact:	ROBERT FENN
Contact address:	2100 S OPDYKE RD PONTIAC, MI 48341
Contact country:	Not reported
Contact telephone:	(248) 452-2829
Contact email:	Not reported
EPA Region:	05
Land type:	Private
Classification:	TSDF
Description:	Handler is engaged in the treatment, storage or disposal of hazardous waste
TSD commencement date:	Not reported
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Owner/Operator Summary:
- Owner/operator name: PONTIAC ASSEMBLY CENTER GMVM
- Owner/operator address: Not reported
  Not reported
- Owner/operator country: Not reported
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Operator
- Owner/Op start date: 02/25/2002
- Owner/Op end date: Not reported

- Owner/operator name: GENERAL MOTORS CORPORATION
- Owner/operator address: Not reported
  Not reported
- Owner/operator country: Not reported
- Owner/operator telephone: Not reported
- Legal status: Private
- Owner/Operator Type: Owner
- Owner/Op start date: 02/25/2002
- Owner/Op end date: Not reported

Handler Activities Summary:
- U.S. importer of hazardous waste: No
- Mixed waste (haz. and radioactive): No
- Recycler of hazardous waste: No
- Transporter of hazardous waste: No
- Treater, storer or disposer of HW: No
- Underground injection activity: No
- On-site burner exemption: No
- Furnace exemption: No
- Used oil fuel burner: No
- Used oil processor: No
- User oil refiner: No
- Used oil fuel marketer to burner: No
- Used oil Specification marketer: No
- Used oil transfer facility: No
- Used oil transporter: No
- Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
- Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
- Accumulated waste on-site: No
- Generated waste on-site: Yes

- Waste type: MERCURY THERMOMETERS
- Accumulated waste on-site: No
- Generated waste on-site: Yes

- Waste type: MERCURY SWITCHES
- Accumulated waste on-site: No
- Generated waste on-site: Yes

- Waste type: Batteries
- Accumulated waste on-site: No
- Generated waste on-site: Yes

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: Yes

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: Yes

Historical Generators:
Date form received by agency: 08/24/2007
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/01/2006
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/27/2006
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/01/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/27/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 05/13/2003
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/01/2002
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/25/2002
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 12/04/2001
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 04/05/2001
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 02/28/2000
Facility name: GENERAL MOTORS CORPORATION
Site name: GM TRUCK GROUP PONTIAC EAST ASSEM.
Classification: Large Quantity Generator

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Date form received by agency: 02/26/1998
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC TRUCK & BUS PONTIAC EAST
Classification: Large Quantity Generator

Date form received by agency: 04/19/1996
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 04/18/1996
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Date form received by agency: 03/01/1996
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC TRUCK & BUS PONTIAC EAST ASSY
Classification: Large Quantity Generator

Date form received by agency: 02/28/1994
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC TRUCK & BUS PONTIAC EAST ASSEMBLY
Classification: Large Quantity Generator

Date form received by agency: 02/28/1992
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC TRUCK & BUS PONTIAC EAST ASSEMBLY
Classification: Large Quantity Generator

Date form received by agency: 02/27/1990
Facility name: GENERAL MOTORS CORPORATION
Site name: GMC TRUCK & BUS GROUP
Classification: Large Quantity Generator

Date form received by agency: 11/17/1980
Facility name: GENERAL MOTORS CORPORATION
Classification: Large Quantity Generator

Biennial Reports:

Last Biennial Reporting Year: 2007

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-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.
Amount (Lbs): 1763097.8

Waste code: D002
Waste name: 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

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.
Amount (Lbs): 390

Waste code: D008
Waste name: LEAD
Amount (Lbs): 4880.6

Waste code: D018
Waste name: BENZENE
Amount (Lbs): 3511

Waste code: D035
Waste name: METHYL ETHYL KETONE
Amount (Lbs): 900

Corrective Action Summary:

Event date: 03/31/1992
Event: CA Prioritization, Facility or area was assigned a high corrective action priority.

Event date: 09/11/1992
Event: Stabilization Measures Evaluation,This facility is amenable to stabilization activity based on the status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations.

Event date: 07/14/1997
Event: Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

Event date: 06/11/1998
Event: Stabilization Construction Completed

Event date: 09/25/1998
Event: RFI Imposition, Focused data collection required for stabilization evaluation.

Event date: 09/25/1998
Event: Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control (e.g., capping, fencing, deed restrictions).

Event date: 12/06/2000
Event: Current Human Exposures under Control, Yes, Current Human Exposures Under Control has been verified. Based on a review of information contained in the EI determination, current human exposures are expected to be under control at the facility under current and reasonably expected conditions. This determination will be re-evaluated when the Agency/State becomes aware of significant changes at the facility.

Event date: 12/06/2000
Event: Igration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.

Event date: 07/20/2001
Event: CA005EE

Event date: 12/19/2002
Event: RFI Approved

Event date: 10/12/2006
Event: Petition For No Further Action Receipt Date

Event date: 12/19/2006
Event: Decision On Petition For No Further Action

Event date: 04/10/2007
Event: CA772PR

Event date: 04/11/2007
Event: CA772PR

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 10/17/2003
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Area of violation: Generators - Pre-transport
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/23/1996
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Date violation determined: 09/30/1994
Date achieved compliance: 03/09/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/30/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 09/30/1994
Date achieved compliance: 03/09/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/30/1994
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 08/19/1992
Date achieved compliance: 08/20/1993
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/19/1992
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 01/29/1991
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/21/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/29/1991

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/21/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/18/1991
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 02/26/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 12/03/1990
Date achieved compliance: 04/18/1991
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/09/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/06/1990
Date achieved compliance: 04/15/1991
Violation lead agency: EPA
Enforcement action: INITIAL 3008(A) COMPLIANCE
Enforcement action date: 09/28/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 9500
Final penalty amount: 9500
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 07/06/1990
Date achieved compliance: 04/15/1991

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Violation lead agency: EPA
Enforcement action: FINAL 3008(A) COMPLIANCE ORDER
Enforcement action date: 03/18/1991
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: EPA
Proposed penalty amount: 9000
Final penalty amount: 9000
Paid penalty amount: 9000

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/07/1990
Date achieved compliance: 11/06/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 03/07/1990
Date achieved compliance: 11/06/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 03/31/1989
Date achieved compliance: 05/10/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/05/1989
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/26/1988
Date achieved compliance: 10/20/1988
Violation lead agency: State

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/12/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - Financial Requirements
Date violation determined: 08/26/1988
Date achieved compliance: 11/17/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/14/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/11/1987
Date achieved compliance: 01/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/25/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/11/1987
Date achieved compliance: 01/12/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/23/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 03/19/1987
Date achieved compliance: 08/25/1987
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Enforcement action date: 04/03/1987
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 09/19/1986
Date achieved compliance: 10/13/1986
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/29/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 08/07/1984
Date achieved compliance: 12/04/1984
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/30/1984
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Evaluation Action Summary:
Evaluation date: 03/31/2006
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/31/2006
Evaluation: NOT A SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 11/30/2001
Evaluation: SIGNIFICANT NON-COMPLIER
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Area of violation: TSD IS-Air Emission Standards - Tank/SI/Container
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 03/20/2001
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD IS-Air Emission Standards - Equipment Leaks
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 03/09/1995
Evaluation lead agency: State

Evaluation date: 09/28/1994
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/09/1995
Evaluation lead agency: State

Evaluation date: 08/12/1992
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 08/20/1993
Evaluation lead agency: State

Evaluation date: 05/28/1991
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Evaluation date: 01/29/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: LDR - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 01/29/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 01/18/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: TSD - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 01/18/1991
Evaluation: COMPLIANCE SCHEDULE EVALUATION
Area of violation: LDR - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 12/03/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 04/18/1991
Evaluation lead agency: State

Evaluation date: 07/06/1990
Evaluation: NON-FINANCIAL RECORD REVIEW
Area of violation: TSD - General
Date achieved compliance: 04/15/1991
Evaluation lead agency: EPA

Evaluation date: 06/29/1990
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/06/1990
Evaluation lead agency: State

Evaluation date: 03/07/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 11/06/1990
Evaluation lead agency: State

Evaluation date: 03/31/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Date achieved compliance: 05/10/1989
Evaluation lead agency: State

Evaluation date: 01/24/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/26/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/20/1988
Evaluation lead agency: State

Evaluation date: 08/26/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/17/1988
Evaluation lead agency: State

Evaluation date: 08/11/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 01/12/1988
Evaluation lead agency: State

Evaluation date: 03/19/1987
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 08/25/1987
Evaluation lead agency: State

Evaluation date: 09/19/1986
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/13/1986
Evaluation lead agency: State

Evaluation date: 04/01/1986
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: EPA

Evaluation date: 12/02/1985
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 08/07/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 12/04/1984
Evaluation lead agency: State

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

CERC-NFRAP:
Site ID: 0502273
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP

CERCLIS-NFRAP Site Contact Name(s):
Contact Title: RESPONSIBLE PARTY INVESTIGATOR
Contact Name: JANET PFUNDHELLER
Contact Tel: (312) 353-5821

Program Priority:
Description: Great Lakes

CERCLIS-NFRAP Assessment History:
Action: DISCOVERY
Date Started: Not reported
Date Completed: 08/01/1980
Priority Level: Not reported

Action: PRELIMINARY ASSESSMENT
Date Started: Not reported
Date Completed: 05/01/1983
Priority Level: Low priority for further assessment

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 11/01/1983
Priority Level: Not reported

Action: HRS PACKAGE
Date Started: Not reported
Date Completed: 11/01/1983
Priority Level: NFRAP: No further Remedial Action planned

Action: SITE INSPECTION
Date Started: Not reported
Date Completed: 11/01/1983
Priority Level: NFRAP: No further Remedial Action planned

CORRACTS:

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 3/31/1992
Action: CA075HI - CA Prioritization, Facility or area was assigned a high corrective action priority
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

EPA Region: 05
Area Name: J-LOT
Actual Date: 4/10/2007
Action: CA772PR
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 4/11/2007
Action: CA772PR
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 6/11/1998
Action: CA650 - Stabilization Construction Completed
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 7/14/1997
Action: CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/11/1992
Action: CA225YE - Stabilization Measures Evaluation, This facility ,is amenable to stabilization activity based on the, status of corrective action work at the facility, technical factors, the degree of risk, timing considerations and administrative considerations
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/25/1998

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Action:	CA100DC - RFI Imposition, Focused data collection required for stabilization evaluation
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	MID005356902
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	9/25/1998
Action:	CA600EC - Stabilization Measures Implemented, Primary measure is exposure control by barrier and/or institutional control
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	MID005356902
EPA Region:	05
Area Name:	J-LOT
Actual Date:	10/12/2006
Action:	CA370 - Petition For No Further Action Receipt Date
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	MID005356902
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	12/6/2000
Action:	CA725YE - Current Human Exposures Under Control, Yes, Current Human Exposures Under Control has been verified
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	MID005356902
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	12/6/2000
Action:	CA750YE - Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing
Original schedule date:	Not reported
Schedule end date:	Not reported

EPA ID:	MID005356902
EPA Region:	05
Area Name:	ENTIRE FACILITY
Actual Date:	12/19/2002
Action:	CA200 - RFI Approved
NAICS Code(s):	336112 Light Truck and Utility Vehicle Manufacturing

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID005356902
EPA Region: 05
Area Name: J-LOT
Actual Date: 12/19/2006
Action: CA375 - Decision On Petition For No Further Action
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

US INST CONTROL:
EPA ID: MID005356902
Site ID: Not reported
Name: GENERAL MOTORS CORPORATION
Action Name: Not reported
Address: 2100 S OPDYKE RD
PONTIAC, MI 48341
EPA Region: 5
County: OAKLAND
Event Code: CA772PR
Inst. Control: Not reported
Actual Date: 04/11/07
Complet. Date: Not reported
Operable Unit: Not reported
Contaminated Media : Not reported

FINDS:

Registry ID: 110000404795

Environmental Interest/Information System

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

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).

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

US EPA 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.

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.

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 it 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.

US EPA RACT/BACT/LAER Clearinghouse (RBLC) database contains case-specific information on the "Best Available" air pollution technologies that have been required to reduce the emission of air pollutants from stationary sources (e.g., power plants, steel mills, chemical plants, etc.). RACT, or Reasonably Available Control Technology, is required on existing sources in areas that are not meeting national ambient air quality standards. BACT, or Best Available Control Technology, is required on major new or modified sources in clean areas. LAER, or Lowest Achievable Emission Rate, is required on major new or modified sources in non-attainment areas.

NY MANIFEST:

EPA ID:	MID005356902
Country:	USA
Mailing Name:	GENERAL MOTORS
Mailing Contact:	STEVEN F JENSEN
Mailing Address:	700 SOUTH BLVD EAST BLDG#43
Mailing Address 2:	Not reported
Mailing City:	PONTIAC
Mailing State:	MI
Mailing Zip:	48341
Mailing Zip4:	Not reported
Mailing Country:	USA
Mailing Phone:	810-456-7367
Document ID:	NYB9555984
Manifest Status:	Not reported
Trans1 State ID:	OHD068913409

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Trans2 State ID:	Not reported
Generator Ship Date:	03/12/2003
Trans1 Recv Date:	03/12/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/20/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	0629746ME
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00800
Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB6630093
Manifest Status:	Completed after the designated time period for a TSDF to get a copy to the DEC
Trans1 State ID:	NY86424Z
Trans2 State ID:	Not reported
Generator Ship Date:	941006
Trans1 Recv Date:	941006
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	941024
Part A Recv Date:	941017
Part B Recv Date:	941102
Generator EPA ID:	MID005356902
Trans1 EPA ID:	ILD099202681
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	F001 - UNKNOWN
Quantity:	00055
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	94
Manifest Tracking Num:	Not reported
Import Ind:	Not reported

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB7405821
Manifest Status:	Completed copy
Trans1 State ID:	10210PNY
Trans2 State ID:	Not reported
Generator Ship Date:	951205
Trans1 Recv Date:	951205
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	951207
Part A Recv Date:	960117
Part B Recv Date:	951226
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	00330
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	006
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB8122338
Manifest Status:	Completed copy
Trans1 State ID:	11339PNY
Trans2 State ID:	Not reported
Generator Ship Date:	950828
Trans1 Recv Date:	950828
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	950906
Part A Recv Date:	960716

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Part B Recv Date:	950919
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	00918
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00918
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB7406739
Manifest Status:	Completed copy
Trans1 State ID:	NY10210P
Trans2 State ID:	Not reported
Generator Ship Date:	960112
Trans1 Recv Date:	960112
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960115
Part A Recv Date:	960215
Part B Recv Date:	960131
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	B001 - PCB OIL (CONC) FROM TRANS, CAP, ETC
Quantity:	00605
Units:	G - Gallons (liquids only)* (8.3 pounds)
Number of Containers:	011
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	96
Manifest Tracking Num:	Not reported

GMC TRUCK & COACH DIV PONTIAC EAST (Continued) **1000881766**

Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

Document ID:	NYB8373069
Manifest Status:	Completed copy
Trans1 State ID:	10211PNY
Trans2 State ID:	Not reported
Generator Ship Date:	960911
Trans1 Recv Date:	960911
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960913
Part A Recv Date:	961015
Part B Recv Date:	961003
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00125
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:	00125
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
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

4
WSW
1/4-1/2
0.276 mi.
1455 ft.

SOUTH BOULEVARD COMMERCIAL BUILDING — **BEA** — **S108895983**
655 SOUTH BOULEVARD EAST — **N/A**
PONTIAC, MI 48341

Relative:
Higher

Actual:
929 ft.

BEA:

Secondary Address:	(a.k.a. 585 South Boulevard East)
BEA Number:	3684
District:	Southeast MI
Date Received:	10/9/2007 12:59:00 AM
Submitter Name:	Pontiac Center, LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	Same Hazardous Substance(s)
Determination 20107A:	No Request
Reviewer:	mathewsb
Division Assigned:	Environmental Response Division

Secondary Address:	(a.k.a., 585 South Boulevard East)
BEA Number:	3683
District:	Southeast MI
Date Received:	10/9/2007 12:59:00 AM
Submitter Name:	Detroit Managers, LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	Same Hazardous Substance(s)
Determination 20107A:	No Request
Reviewer:	mathewsb
Division Assigned:	Environmental Response Division

5
WSW
1/4-1/2
0.308 mi.
1624 ft.

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING — **LUST** — **S105213634**
660 S BOULEVARD EAST — **N/A**
PONTIAC, MI 48341

Relative:
Higher

Actual:
929 ft.

LUST:

Facility ID:	00018277
Source:	STATE OF MICHIGAN
Owner Name:	GM-Pontiac Assembly Center
Owner Address:	2100 S Opdyke Rd 483-606-121
Owner City,St,Zip:	Pontiac, MI 48341
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	SE Michigan District Office
Site Name:	GM Pontiac Ctr point Campus- West Engineering
Latitude:	42.6194420000
Longitude:	-83.2634040000
Date of Collection:	01-11-2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)

Leak Number:	C-0202-05
Release Date:	Jul 20 2005

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **S105213634**

Substance Released: Diesel,Gasoline
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0235-90
Release Date: Feb 2 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0712-85
Release Date: Aug 22 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-0776-90
Release Date: May 1 1990
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1245-91
Release Date: Jun 21 1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1468-92
Release Date: Sep 4 1992
Substance Released: Gasoline,Diesel
Release Status: Closed
Release Closed Date: Dec 28 1993

Leak Number: C-1489-85
Release Date: Jan 1 1985
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1771-92
Release Date: Oct 21 1992
Substance Released: Other,Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1831-91
Release Date: Sep 5 1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

Leak Number: C-1972-92
Release Date: Nov 5 1992
Substance Released: Other
Release Status: Closed
Release Closed Date: Apr 29 1996

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **S105213634**

Leak Number: C-2149-91
Release Date: Oct 16 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Mar 17 1995

Leak Number: C-2188-91
Release Date: Oct 22 1991
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Apr 27 1994

6
West
1/4-1/2
0.335 mi.
1768 ft.

OFFICE BUILDING **BEA** **S108986833**
585 SOUTH BOULEVARD EAST **N/A**
PONTIAC, MI

Relative:
Higher

Actual:
930 ft.

BEA:
Secondary Address: Not reported
BEA Number: 3763
District: Southeast MI
Date Received: 12/27/2007 12:59:00 AM
Submitter Name: Electronic Data Systems Corporation
Petition Determination: No Request
Petition Disclosure: 0
Category: Same Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

7
East
1/4-1/2
0.361 mi.
1904 ft.

KMART #4323 **LUST** **U003329710**
975 S OPDYKE ROAD **UST** **N/A**
PONTIAC, MI 48084

Relative:
Higher

Actual:
918 ft.

LUST:
Facility ID: 00000747
Source: STATE OF MICHIGAN
Owner Name: Kmart Corp
Owner Address: 3100 W Big Beaver Rd
Owner City,St,Zip: Troy, MI 48084-3004
Owner Contact: Bob Keeler
Owner Phone: (248) 614-1310
Country: USA
District: SE Michigan District Office
Site Name: K-mart #4323
Latitude: 42.6212740000
Longitude: -83.2486680000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

KMART #4323 (Continued) **U003329710**

Leak Number: C-2420-90
Release Date: Nov 16 1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: Sep 8 1997

UST:
Facility ID: 00000747
Facility Type: CLOSED
Latitude: 42.6212740000
Longitude: -83.2486680000
Owner Name: Kmart Corp
Owner Address: 3100 W Big Beaver Rd
Owner City,St,Zip: Troy, MI 48084-3004
Owner Country: USA
Owner Contact: Bob Keeler
Owner Phone: (248) 614-1310
Contact: P.M. OLMSTEAD
Contact Phone: (734) 334-3540
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Install Date: Apr 9 1971
Product: Used Oil
Remove Date: Feb 16 1990
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

A8 **SOUTH BOULEVARD & UPDYKE STATION INC** **LUST U003426041**
East **1501 S OPDYKE RD** **UST N/A**
1/4-1/2 **BLOOMFIELD, MI 48304**
0.362 mi.
1913 ft. **Site 1 of 2 in cluster A**

Relative:
Higher

Actual:
922 ft.

LUST:
Facility ID: 00016713
Source: STATE OF MICHIGAN
Owner Name: South Boulevard & Updyke Station Inc
Owner Address: 1501 S Opdyke
Owner City,St,Zip: Bloomfield, MI 48304
Owner Contact: Not reported
Owner Phone: (248) 745-9337
Country: USA
District: SE Michigan District Office
Site Name: Mobil SS # 03-M5G

SOUTH BOULEVARD & UPDYKE STATION INC (Continued) **U003426041**

Latitude:	42.5428770000
Longitude:	-83.1652120000
Date of Collection:	19-04-2007
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)

Leak Number:	C-0224-04
Release Date:	Jun 3 2004
Substance Released:	Gasoline
Release Status:	Open
Release Closed Date:	Not reported

Leak Number:	C-1595-91
Release Date:	Aug 5 1991
Substance Released:	Unknown
Release Status:	Closed
Release Closed Date:	May 17 1996

UST:

Facility ID:	00016713
Facility Type:	ACTIVE
Latitude:	42.5428770000
Longitude:	-83.1652120000
Owner Name:	South Boulevard & Updyke Station Inc
Owner Address:	1501 S Opdyke
Owner City,St,Zip:	Bloomfield, MI 48304
Owner Country:	USA
Owner Contact:	Not reported
Owner Phone:	(248) 745-9337
Contact:	Fahmi Awdish
Contact Phone:	(248) 745-9337
Date of Collection:	19-04-2007
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Datum:	NAD83
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off

Tank ID:	1
Tank Status:	**Currently In Use**
Capacity:	12000
Install Date:	Oct 1 1985
Product:	Gasoline
Remove Date:	Not reported
Tank Release Detection:	Automatic Tank Gauging
Pipe Realease Detection:	Automatic Line Leak Detectors,Line Tightness Testing
Piping Material:	Fiberglass reinforced plastic
Piping Type:	Pressure
Constr Material:	Fiberglass Reinforced plastic
Impressed Device:	No

SOUTH BOULEVARD & UPDYKE STATION INC (Continued) **U003426041**

Tank ID: 6
Tank Status: Currently In Use
Capacity: 1000
Install Date: Jul 1 1983
Product: Used Oil
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging,Manual Tank Gauging,Tank Tightness Testing
Pipe Realease Detection: Not reported
Piping Material: Fiberglass reinforced plastic
Piping Type: Gravity Fed?
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 3
Tank Status: Currently In Use
Capacity: 6000
Install Date: Jul 1 1983
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Gravity Fed?
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 2
Tank Status: Currently In Use
Capacity: 10000
Install Date: Jul 1 1983
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors,Line Tightness Testing
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 8000
Install Date: Apr 22 1983
Product: Gasoline
Remove Date: Sep 28 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

Tank ID: 5

SOUTH BOULEVARD & UPDYKE STATION INC (Continued) **U003426041**

Tank Status:	**Removed from Ground**
Capacity:	550
Install Date:	Apr 21 1968
Product:	Used Oil
Remove Date:	Aug 2 1991
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

A9 **MOBIL STATION #03-M5G (FORMER)** **BEA S108236803**
East **1501 SOUT OPDYKE** **N/A**
1/4-1/2 **BLOOMFIELD TOWNSHIP, MI 48303**
0.363 mi.
1914 ft. **Site 2 of 2 in cluster A**

Relative:
Higher

Actual:
922 ft.

BEA:

Secondary Address:	Not reported
BEA Number:	3372
District:	Southeast MI
Date Received:	11/17/2006 12:59:00 AM
Submitter Name:	South Boulevard & Opdyke RealEstate, LLC
Petition Determination:	No Request
Petition Disclosure:	0
Category:	Same Hazardous Substance(s)
Determination 20107A:	No Request
Reviewer:	schlaufj
Division Assigned:	Storage Tank Division

Secondary Address:	Not reported
BEA Number:	3371
District:	Southeast MI
Date Received:	11/17/2006 12:59:00 AM
Submitter Name:	South Boulevard & Opdyke Station, Inc.
Petition Determination:	No Request
Petition Disclosure:	0
Category:	Same Hazardous Substance(s)
Determination 20107A:	No Request
Reviewer:	schlaufj
Division Assigned:	Storage Tank Division

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10 **WATER & SEWER** **LUST U003323145**
ENE **522 S OPDYKE RD** **UST N/A**
1/4-1/2 **PONTIAC, MI 48341**
0.378 mi.
1997 ft.

Relative:
Higher

Actual:
913 ft.

LUST:

Facility ID:	00014732
Source:	STATE OF MICHIGAN
Owner Name:	City of Pontiac
Owner Address:	47450 Woodward Ave
Owner City,St,Zip:	Pontiac, MI 48342-2245
Owner Contact:	Not reported

WATER & SEWER (Continued) **U003323145**

Owner Phone: (248) 857-7611
Country: USA
District: SE Michigan District Office
Site Name: Water & Sewer
Latitude: 42.6274380000
Longitude: -83.2494470000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0281-99
Release Date: Mar 18 1999
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Feb 7 2002

UST:
Facility ID: 00014732
Facility Type: CLOSED
Latitude: 42.6274380000
Longitude: -83.2494470000
Owner Name: City of Pontiac
Owner Address: 47450 Woodward Ave
Owner City,St,Zip: Pontiac, MI 48342-2245
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 857-7611
Contact: FRANK OLES
Contact Phone: (248) 857-7665
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 1500
Install Date: Mar 7 1963
Product: Gasoline
Remove Date: Apr 1 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Repaired,Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground

WATER & SEWER (Continued) **U003323145**

Capacity:	2000
Install Date:	Mar 6 1985
Product:	Gasoline
Remove Date:	Apr 1 1999
Tank Release Detection:	Not reported
Pipe Realease Detection:	Not reported
Piping Material:	Galvanized Steel
Piping Type:	Repaired,Suction: No Valve At Tank
Constr Material:	Asphalt Coated or Bare Steel
Impressed Device:	No

Tank ID:	4
Tank Status:	**Removed from Ground**
Capacity:	1500
Install Date:	Jan 1 1989
Product:	Gasoline
Remove Date:	Apr 1 1999
Tank Release Detection:	Groundwater Monitoring,Manual Tank Gauging
Pipe Realease Detection:	Automatic Line Leak Detectors
Piping Material:	Cathodically Protected,POLY WRAP
Piping Type:	Repaired,Suction: No Valve At Tank
Constr Material:	Asphalt Coated or Bare Steel
Impressed Device:	No

Tank ID:	1
Tank Status:	**Removed from Ground**
Capacity:	5000
Install Date:	Mar 7 1963
Product:	Gasoline,REGULAR
Remove Date:	Aug 24 1989
Tank Release Detection:	Not reported
Pipe Realease Detection:	Not reported
Piping Material:	Galvanized Steel,I.P.S.
Piping Type:	Not reported
Constr Material:	Asphalt Coated or Bare Steel
Impressed Device:	No

11
ENE
1/4-1/2
0.402 mi.
2121 ft.

AUBURN PONTIAC **RCRA-SQG** **1000269103**
500 S OPDYKE RD **FINDS** **MID006958698**
PONTIAC, MI 48341 **LUST**
UST

Relative:
Higher

Actual:
916 ft.

RCRA-SQG:

Date form received by agency:	01/27/2004
Facility name:	AUBURN PONTIAC
Facility address:	500 S OPDYKE RD PONTIAC, MI 48341
EPA ID:	MID006958698
Contact:	RICHARD FRITZ
Contact address:	500 S OPDYKE RD PONTIAC, MI 48341
Contact country:	Not reported
Contact telephone:	(248) 332-9300
Contact email:	Not reported
EPA Region:	05

AUBURN PONTIAC (Continued) **1000269103**

Land type: Private
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: HAHN WILLIAM
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Owner/operator name: HAHN WILLIAM
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1970
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No
Off-site waste receiver: Commercial status unknown

Universal Waste Summary:
Waste type: DEVICES CONTAINING ELEMENTAL MERCURY
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: MERCURY THERMOMETERS
Accumulated waste on-site: No
Generated waste on-site: No

AUBURN PONTIAC (Continued) **1000269103**

Waste type: MERCURY SWITCHES
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Batteries
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Lamps
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Pesticides
Accumulated waste on-site: No
Generated waste on-site: No

Waste type: Thermostats
Accumulated waste on-site: No
Generated waste on-site: No

Historical Generators:
Date form received by agency: 04/03/2003
Facility name: AUBURN PONTIAC
Classification: Small Quantity Generator

Date form received by agency: 09/17/1998
Facility name: AUBURN PONTIAC
Classification: Small Quantity Generator

Date form received by agency: 09/29/1986
Facility name: AUBURN PONTIAC
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:
Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported

AUBURN PONTIAC (Continued) **1000269103**

Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported

AUBURN PONTIAC (Continued) **1000269103**

Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 07/16/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Manifest
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State

AUBURN PONTIAC (Continued) **1000269103**

Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Used Oil - Generators
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: State Statute or Regulation
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

AUBURN PONTIAC (Continued) **1000269103**

Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Records/Reporting
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 05/24/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 01/07/2004
Date achieved compliance: 07/16/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 01/07/2004
Date achieved compliance: 09/20/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 01/14/2004
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported

AUBURN PONTIAC (Continued) **1000269103**

Paid penalty amount: Not reported

Evaluation Action Summary:

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: State Statute or Regulation
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Used Oil - Generators
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 07/16/2004
Evaluation lead agency: State

Evaluation date: 01/07/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 09/20/2004
Evaluation lead agency: State

FINDS:

Registry ID: 110008444424

Environmental Interest/Information System

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.

AUBURN PONTIAC (Continued) **1000269103**

LUST:

Facility ID:	00008058
Source:	STATE OF MICHIGAN
Owner Name:	Auburn Pontiac Inc
Owner Address:	500 S Opdyke Rd
Owner City,St,Zip:	Pontiac, MI 48341-3142
Owner Contact:	Not reported
Owner Phone:	(734) 332-9300
Country:	USA
District:	SE Michigan District Office
Site Name:	Auburn Pontiac, Inc.
Latitude:	42.6279100000
Longitude:	-83.2494660000
Date of Collection:	01-11-2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Leak Number:	C-1184-90
Release Date:	Oct 1 1992
Substance Released:	Not reported
Release Status:	Closed
Release Closed Date:	Oct 29 1993
Leak Number:	C-1703-92
Release Date:	Oct 1 1992
Substance Released:	Unknown
Release Status:	Closed
Release Closed Date:	Oct 29 1993

UST:

Facility ID:	00008058
Facility Type:	CLOSED
Latitude:	42.6279100000
Longitude:	-83.2494660000
Owner Name:	Auburn Pontiac Inc
Owner Address:	500 S Opdyke Rd
Owner City,St,Zip:	Pontiac, MI 48341-3142
Owner Country:	USA
Owner Contact:	Not reported
Owner Phone:	(734) 332-9300
Contact:	MARIANNE SWEJKOWSKI
Contact Phone:	(734) 332-9300
Date of Collection:	01-11-2001
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Datum:	NAD83
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
Tank ID:	2
Tank Status:	**Removed from Ground**

AUBURN PONTIAC (Continued) **1000269103**

Capacity: 2000
Install Date: Apr 1 1976
Product: MOTOR OIL
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 550
Install Date: Apr 1 1976
Product: ATF-DEXROXY
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 500
Install Date: Apr 1 1976
Product: Used Oil
Remove Date: Nov 1 1992
Tank Release Detection: Manual Tank Gauging
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Pressure
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 8000
Install Date: Apr 1 1976
Product: Gasoline
Remove Date: Sep 1 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

12
NE
1/4-1/2
0.421 mi.
2221 ft.

MOOTE ELECTRICAL, INC
490 S OPDYKE RD
PONTIAC, MI 48341

LUST **S105213449**
N/A

Relative:
Higher

Actual:
916 ft.

LUST:

Facility ID:	00009163
Source:	STATE OF MICHIGAN
Owner Name:	Moote Elec Inc
Owner Address:	490 S Opdyke Rd
Owner City,St,Zip:	Pontiac, MI 48341-3119
Owner Contact:	Not reported
Owner Phone:	(248) 334-9941
Country:	USA
District:	SE Michigan District Office
Site Name:	Moote Electrical Company 490
Latitude:	42.6283120000
Longitude:	-83.2494800000
Date of Collection:	01-11-2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Leak Number:	C-2305-91
Release Date:	Oct 29 1991
Substance Released:	Unknown
Release Status:	Closed
Release Closed Date:	May 25 1993

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN HILLS	S103594529	ADAMS AND AUBURN RD DEVELOPMENT	3995 AUBURN RD	48326	SHWS
BLOOMFIELD HILLS	S103594527	SHELL DRY WELL 1 TELEGRAPH	1415TH TELEGRAPH & GOLF	48302	SHWS
BLOOMFIELD HILLS	S105966539	UAG MICHIGAN H1, LLC	1819 AND 1825 SOUTH TELEGRAPH	48302	BEA
BLOOMFIELD TWP	S104872786	WOODWARD AVE & SQUARE LAKE ROAD	2510 STATE HIGHWAY 1	48304	LUST
OAKLAND COUNTY	M300004234	SOUTH FLINT GRAVEL, INC.	OAKLAND COUNTY PITS		MINES
OAKLAND COUNTY	M300004229	SOUTH HILL SAND & GRAVEL, INC.	PIONEER		MINES
OAKLAND COUNTY	M300004236	SOUTH FLINT GRAVEL, INC.	SAND & GRAVEL OPERATION		MINES
PONTIAC	S109171488	SOUTH SAGINAW STREET PARCELS	193 AND 197 SOUTH SAGINAW ST	48342	BEA
PONTIAC	2007309762	SOUTH BLVD	SOUTH BLVD		ERNS
PONTIAC	1003871920		871 SOUTH BLVD		CERC-NFRAP
PONTIAC	1003834459	GM TRUCK AND BUS PONTIAC CENTRAL	660 S BLVD E		SHWS
PONTIAC	2007309756	SOUTH BOULEVARD AND SANFORD CROSSI	S BOULEVARD AND SANFORD XING		ERNS
PONTIAC	S108414584	UNIT 52 CENTERPOINT BUSINESS CAMPU	CENTERPOINT BUSINESS CAMPUS		BEA
PONTIAC	1003871234		3951 JOSLYN RD		CERC-NFRAP, SHWS
PONTIAC	S105144527	KENNETT RD LF	KENNETT RD		SHWS
PONTIAC	S105144543	ASPHALT SPECIALIST INC	1908 WIDE TRACK DR W	48342	SHWS, DEL SHWS

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.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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: 10/01/2009
Date Data Arrived at EDR: 10/14/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 11/13/2009
Next Scheduled EDR Contact: 01/25/2010
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

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/14/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 11/13/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Quarterly

NPL LIENS: 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
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/17/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

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: 10/01/2009
Date Data Arrived at EDR: 10/14/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 26

Source: EPA
Telephone: N/A
Last EDR Contact: 11/13/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Quarterly

Federal CERCLIS list

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: 06/30/2009
Date Data Arrived at EDR: 08/11/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 41

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site List

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: 06/23/2009
Date Data Arrived at EDR: 09/02/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 19

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/15/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 48

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 11/16/2009
Next Scheduled EDR Contact: 03/01/2010
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

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. 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). 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.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118
Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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. 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). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118
Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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. 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). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118
Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

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. 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.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118
Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31
Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
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: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Varies

Federal ERNS list

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: 08/31/2009
Date Data Arrived at EDR: 09/17/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 53

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 10/06/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

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: 10/28/2009
Date Data Arrived at EDR: 11/03/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 14

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/03/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: Solid Waste Facilities Database

Solid Waste Facilities/Landfill Sites. SWF/LF type records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. Depending on the state, these may be active or inactive facilities or open dumps that failed to meet RCRA Subtitle D Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 10/06/2009
Date Data Arrived at EDR: 10/08/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 40

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

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: 09/01/2009
Date Data Arrived at EDR: 09/04/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 31

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

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

Date of Government Version: 11/10/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

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: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

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

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

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

Date of Government Version: 03/24/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 28

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/04/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

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: 11/24/2009
Date Data Arrived at EDR: 11/25/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 21

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

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

Date of Government Version: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
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.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

State and tribal registered storage tank lists

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: 09/01/2009
Date Data Arrived at EDR: 09/04/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 27

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 09/15/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/01/2009
Number of Days to Update: 9

Source: Department of Environmental Quality
Telephone: 517-373-8168
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: No Update Planned

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 04/01/2008
Date Data Arrived at EDR: 12/30/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 76

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/04/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/10/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/20/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 26

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 12/07/2009
Date Data Arrived at EDR: 12/09/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 7

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 11/05/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/22/2009
Next Scheduled EDR Contact: 11/16/2009
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

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

Date of Government Version: 09/21/2009
Date Data Arrived at EDR: 09/21/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 14

Source: Department of Environmental Quality
Telephone: 517-373-4828
Last EDR Contact: 12/07/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing
A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 04/02/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27
Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

State and tribal Brownfields sites

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: 09/21/2009
Date Data Arrived at EDR: 09/21/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 14
Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations
A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detrot Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21
Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 12/07/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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: 10/01/2009
Date Data Arrived at EDR: 11/04/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 42
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 11/04/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 12/18/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

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

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

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

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

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 11/09/2009
Next Scheduled EDR Contact: 02/22/2010
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 03/01/2009
Date Data Arrived at EDR: 06/22/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 91

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Quarterly

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 it's listing or the site no longer meets criteria specified in rules.

Date of Government Version: 11/04/2009
Date Data Arrived at EDR: 11/04/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 13

Source: Department of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 3
Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41
Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

LUCIS: Land Use Control Information System
LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31
Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/20/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Varies

LIENS: Lien List
An Environmental Lien is a charge, security, or encumbrance upon title to a property to secure the payment of a cost, damage, debt, obligation, or duty arising out of response actions, cleanup, or other remediation of hazardous substances or petroleum products upon a property, including (but not limited to) liens imposed pursuant to CERCLA 42 USC * 9607(1) and similar state or local laws. In other words: a lien placed upon a property's title due to an environmental condition

Date of Government Version: 08/12/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 19
Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 10/27/2009
Next Scheduled EDR Contact: 02/08/2010
Data Release Frequency: Varies

Records of Emergency Release Reports

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

Date of Government Version: 10/05/2009
Date Data Arrived at EDR: 10/05/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 35
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Annually

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: 09/21/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 13
Source: Department of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators
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. 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). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118
Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 36
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/10/2009
Next Scheduled EDR Contact: 02/22/2010
Data Release Frequency: Varies

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62
Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
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: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62
Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/18/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Varies

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: 08/03/2009
Date Data Arrived at EDR: 10/27/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 13

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 10/06/2009
Next Scheduled EDR Contact: 01/18/2010
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: 09/01/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 30

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Annually

UMTRA: Uranium Mill Tailings Sites

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

Date of Government Version: 01/05/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 05/08/2009
Number of Days to Update: 1

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Varies

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: 08/07/2009
Date Data Arrived at EDR: 09/18/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 52

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/08/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Semi-Annually

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: 12/31/2007
Date Data Arrived at EDR: 04/09/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 69

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 12/01/2009
Next Scheduled EDR Contact: 03/15/2010
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
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 10/07/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Every 4 Years

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

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: 12/31/2007
Date Data Arrived at EDR: 05/19/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 125
Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
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: 08/21/2009
Date Data Arrived at EDR: 08/27/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 09/28/2009
Next Scheduled EDR Contact: 01/11/2010
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: 09/01/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 41

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/21/2009
Next Scheduled EDR Contact: 02/01/2010
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: 09/25/2009
Date Data Arrived at EDR: 10/23/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 54

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

RADINFO: Radiation Information Database

The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 10/15/2009
Date Data Arrived at EDR: 10/16/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 46

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 10/16/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 10/19/2009
Date Data Arrived at EDR: 10/22/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 40

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
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: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
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: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/20/2009
Next Scheduled EDR Contact: 03/05/2010
Data Release Frequency: Biennially

UIC: Underground Injection Wells Database

A listing of underground injection well locations. The UIC Program is responsible for regulating the construction, operation, permitting, and closure of injection wells that place fluids underground for storage or disposal.

Date of Government Version: 09/10/2009
Date Data Arrived at EDR: 09/10/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 25

Source: Department of Environmental Quality
Telephone: 517-241-1515
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 02/18/2009
Date Data Arrived at EDR: 03/17/2009
Date Made Active in Reports: 04/01/2009
Number of Days to Update: 15

Source: Department of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 10/26/2009
Next Scheduled EDR Contact: 02/08/2010
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: 10/13/2009
Date Data Arrived at EDR: 10/14/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 34

Source: Department of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 10/14/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 39

Source: Department of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 10/05/2009
Next Scheduled EDR Contact: 01/11/2010
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

A Baseline Environmental Assessment (BEA) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Date of Government Version: 09/14/2009
Date Data Arrived at EDR: 09/14/2009
Date Made Active in Reports: 10/05/2009
Number of Days to Update: 21

Source: DEPT. OF ENVIRONMENTAL QUALITY
Telephone: 517-373-9541
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Semi-Annually

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: 12/31/2005
Date Data Arrived at EDR: 12/08/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 34

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Semi-Annually

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 09/09/2009
Date Data Arrived at EDR: 09/09/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 43

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/09/2009
Next Scheduled EDR Contact: 02/08/2010
Data Release Frequency: Varies

COAL ASH: Coal Ash Disposal Sites

Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 10/29/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 12

Source: Department of Environmental Quality
Telephone: 586-753-3754
Last EDR Contact: 10/26/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Varies

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database

The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/13/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

EDR PROPRIETARY RECORDS

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

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

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

Date of Government Version: N/A
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: Varies

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

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

Date of Government Version: N/A
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: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2007
Date Data Arrived at EDR: 08/26/2009
Date Made Active in Reports: 09/11/2009
Number of Days to Update: 16

Source: Department of Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 05/05/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 17

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/20/2009
Next Scheduled EDR Contact: 02/01/2010
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: 10/27/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/09/2009
Number of Days to Update: 29

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/10/2009
Next Scheduled EDR Contact: 02/22/2010
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/14/2009
Number of Days to Update: 13

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 11/23/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 06/01/2009
Date Data Arrived at EDR: 06/12/2009
Date Made Active in Reports: 06/29/2009
Number of Days to Update: 17

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 07/17/2009
Date Made Active in Reports: 08/10/2009
Number of Days to Update: 24

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/24/2009
Next Scheduled EDR Contact: 01/04/2010
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

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GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes
Source: Bureau of REgulatory Services
Telephone: 517-373-8300

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

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 517-241-2254

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SOUTH GENTELPOINT PARKWAY
GENTELPOINT PARKWAY
PONTIAC, MI 48341

TARGET PROPERTY COORDINATES

Latitude (North):	42.62120 - 42° 37' 16.3''
Longitude (West):	83.2564 - 83° 15' 23.0''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314949.6
UTM Y (Meters):	4721004.5
Elevation:	910 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42083-F3 PONTIAC NORTH, MI
Most Recent Revision:	1997
East Map:	42083-F2 ROCHESTER, MI
Most Recent Revision:	1997
Southeast Map:	42083-E2 BIRMINGHAM, MI
Most Recent Revision:	1981
South Map:	42083-E3 PONTIAC SOUTH, MI
Most Recent Revision:	1997

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).

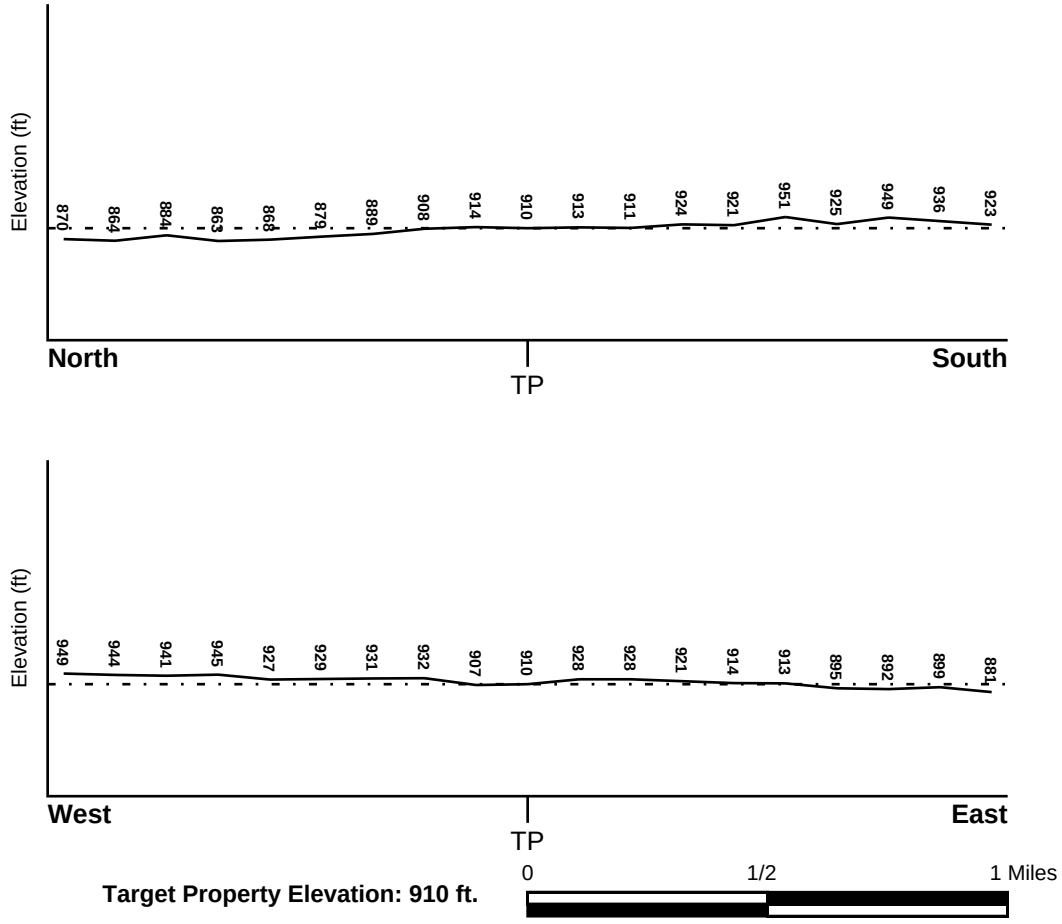
TOPOGRAPHIC INFORMATION

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

Target Property County	FEMA Flood Electronic Data
OAKLAND, MI	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2601770010B

Additional Panels in search area: 2602630015B
2601690005B

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PONTIAC SOUTH	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
2	1/2 - 1 Mile NE	N
21	1/2 - 1 Mile NNW	Not Reported

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

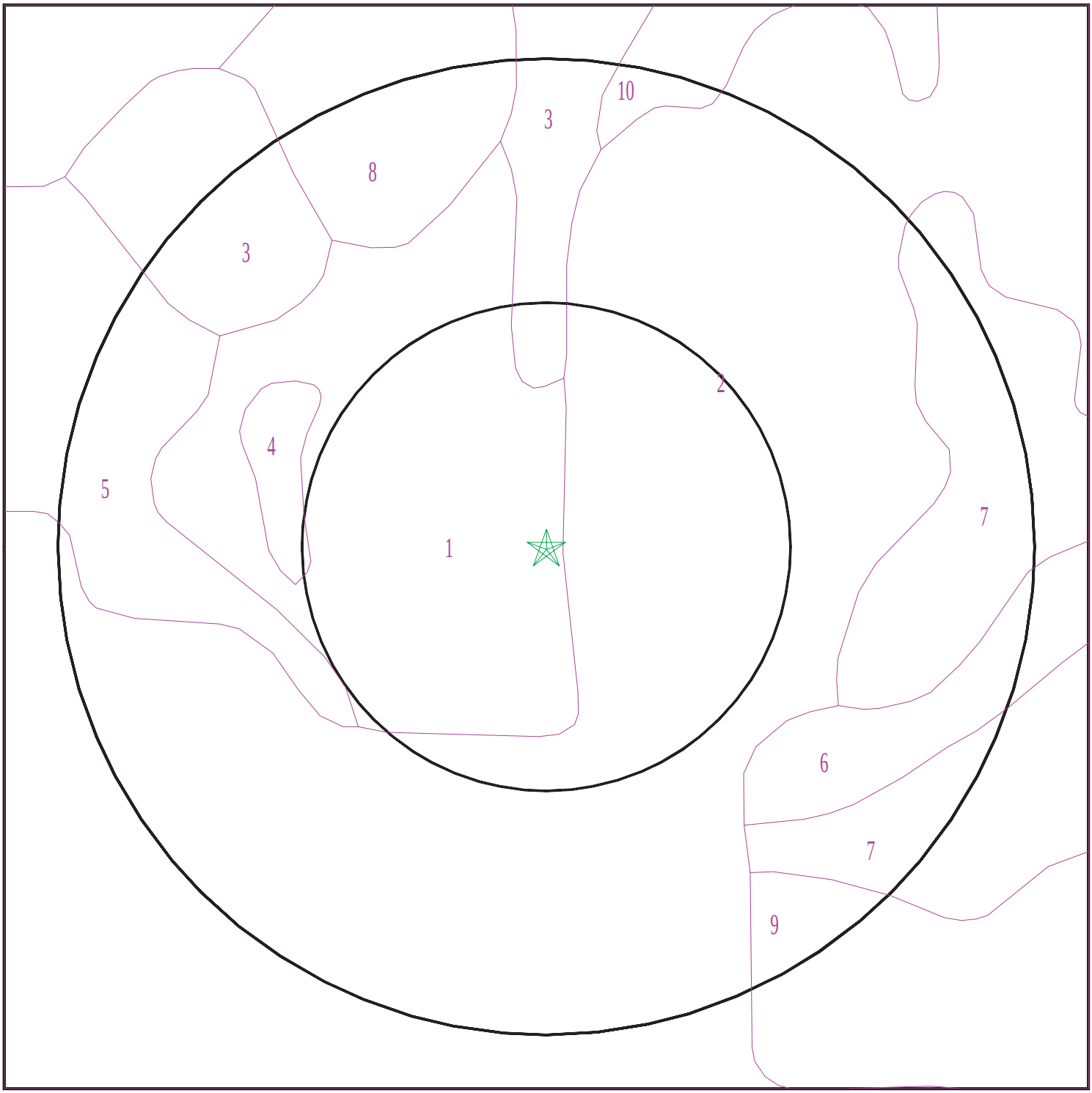
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(decoded above as Era, System & Series)*

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).

SSURGO SOIL MAP - 2662638.1s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	
ADDRESS:	NO ETKINS LOTS 189 AND 190 Pontiac MI 48341
LAT/LONG:	42.6212 / 83.2564

CLIENT:	LFR Inc
CONTACT:	Sean Drain
INQUIRY #:	2662638.1s
DATE:	December 18, 2009 12:29 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Capac

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy 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: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	7 inches	31 inches	clay 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: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	31 inches	59 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: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Map ID: 2

Soil Component Name: Urban land

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Aquents

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Very poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture: variable

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: Marlette

Soil Surface Texture: sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy 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: 4 Min: 1.4	Max: 8.4 Min: 6.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
2	7 inches	22 inches	clay 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: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	22 inches	31 inches	clay 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: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	31 inches	59 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: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 6

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 drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 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: 14 Min: 4	Max: 8.4 Min: 7.4
2	16 inches	35 inches	clay 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: 14 Min: 4	Max: 8.4 Min: 7.4
3	35 inches	59 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: 14 Min: 4	Max: 8.4 Min: 7.4

Soil Map ID: 7

Soil Component Name: Glynwood

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Moderately well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 84 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 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: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	11 inches	31 inches	clay	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: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
3	31 inches	59 inches	clay 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: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 8

Soil Component Name: Sisson

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
2	11 inches	35 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 7.4
3	35 inches	59 inches	stratified fine sand to silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 8.4 Min: 7.4

Soil Map ID: 9

Soil Component Name: Blount

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	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: 4 Min: 0.42	Max: 8.4 Min: 7.4
2	7 inches	29 inches	clay	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: 4 Min: 0.42	Max: 8.4 Min: 7.4
3	29 inches	59 inches	silty 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: 4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 10

Soil Component Name: Udorthents

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	0 inches	loam	Not reported	Not reported	Max: Min:	Max: Min:
2	0 inches	59 inches	variable	Not reported	Not reported	Max: Min:	Max: Min:

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

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
4	MI0000310	1/2 - 1 Mile East

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A6	MI20244850	1/2 - 1 Mile SW
A7	MI20244851	1/2 - 1 Mile SW
B8	MI20244856	1/2 - 1 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
B9	MI20244845	1/2 - 1 Mile SSW
B10	MI20244857	1/2 - 1 Mile SSW
A11	MI20244849	1/2 - 1 Mile SW
A12	MI20244858	1/2 - 1 Mile SW
A13	MI20244848	1/2 - 1 Mile SW
A14	MI20244847	1/2 - 1 Mile SW
A15	MI20244846	1/2 - 1 Mile SW
16	MI20244859	1/2 - 1 Mile South
17	MI20244852	1/2 - 1 Mile SSW
18	MI20244861	1/2 - 1 Mile SW
19	MI20261704	1/2 - 1 Mile SW
20	MI20244853	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 2662638.1s



- 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:		CLIENT:	LFR Inc
ADDRESS:	NO ETKINS LOTS 189 AND 190 Pontiac MI 48341	CONTACT:	Sean Drain
		INQUIRY #:	2662638.1s
LAT/LONG:	42.6212 / 83.2564	DATE:	December 18, 2009 12:29 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

			Database	EDR ID Number
2 **NE** **1/2 - 1 Mile** **Higher**	Site ID: Groundwater Flow: Shallowest Water Table Depth: Deepest Water Table Depth: Average Water Table Depth: Date:	635122 N Not Reported Not Reported 3.43 10/01/1996	**AQUIFLOW**	**39525**

4
East
1/2 - 1 Mile
Lower

FRDS PWS **MI0000310**

PWS ID: MI0000310
Date Initiated: 7308 Date Deactivated: Not Reported
PWS Name: AUBURN DEVELOP CO SUBDIVISION
2835 WOODWARD AVE APT B
BLOOMFIELD HILLS, MI 48013

Addressee / Facility: System Owner/Responsible Party
AUBURN DEVELOPMENT CO SUBD
2835 WOODWARD AVE APT B
BLOOMFIELD HILLS, MI 48013

Facility Latitude: 42 37 20 Facility Longitude: 083 14 40
City Served: PONTIC TWP
Treatment Class: Untreated Population: 00000200

Violations information not reported.

A6
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244850**

Wellid:	63000003874	Import id:	63028003006
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	GORDON F BIRCHARD JR		
Well addr:	268 HIGHLAND AV		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1976-05-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	113		
Screen frm:	113		
Screen to:	117		
Swl:	63		
Test depth:	75		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61259465		
Longitude:	-83.26506983		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	951	Elev dif:	3
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	15
Pct aq d:	15	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	85
Pct cm d:	85	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:	54	A pct aq2:	31
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	69	A pct na2:	0
A hit swl:	F	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:	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:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
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:	F		
Athk2:	54		
Horiz Conduct:	15.74081		
Vert Conduct:	.00015		
T2:	850.0037		
D50plek:	80.55906		

A7
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244851**

Wellid:	63000003875	Import id:	63028003007
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	ROBERT SPOONER		
Well addr:	269 HIGHLAND AV		
Well depth:	130		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1607
Const date:	1996-08-21 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	120		
Screen frm:	120		
Screen to:	130		
Swl:	50		
Test depth:	130		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61259465		
Longitude:	-83.26506983		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	951	Elev dif:	3
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	15
Pct aq d:	15	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	85
Pct cm d:	85	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:	20	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	80	A pct aq2:	25

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	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:	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:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	40	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:	F		
Athk2:	80		
Horiz Conduct:	50.00008		
Vert Conduct:	.00013		
T2:	4000.006		
D50plek:	518.45259		

B8
SSW
1/2 - 1 Mile
Higher

MI WELLS **MI20244856**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003880	Import id:	63028003013
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RAISSA SCHLEGA		
Well addr:	285 E BERKSHIRE		
Well depth:	155		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1967-04-26 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	150.8		
Screen frm:	150		
Screen to:	155		
Swl:	113		
Test depth:	135		
Test hours:	12		
Test rate:	22	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61150005		
Longitude:	-83.26302563		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	941	Elev dif:	7
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	3
Pct aq d:	3	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	71	Pct pcm d:	71
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:	15	A pct aq:	27
A pct maq:	0	A pct pcm:	13
A pct cm:	0	A pct na:	60
A thickns2:	42	A pct aq2:	10
A pct maq2:	0	A pct pcm2:	69
A pct cm2:	0	A pct na2:	21
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	60	A sc lith2:	Hardpan
A sc lmod2:	W/Sand	A sc lmaq2:	PCM
A sc lpct2:	40	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	40	Pct na 3:	60
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	100
Pct na 6:	0	Pct aq 7:	4
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	60	Pct na 7:	36
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		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

B9
SSW
1/2 - 1 Mile
Higher

MI WELLS **MI20244845**

Wellid:	63000003869	Import id:	63028003001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	VAL SCHLEGA		
Well addr:	285 EAST BERKSHIRE		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	248
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	196		
Screen to:	200		
Swl:	60		
Test depth:	100		
Test hours:	8		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61150005		
Longitude:	-83.26302563		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	941	Elev dif:	7
Elev miv:	948	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	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:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	55	A pct aq:	64
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	36
A thickns2:	140	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	61	A pct na2:	14
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:	100
Pct maq 1:	0	Pct cm 1:	0
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:	0
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:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

B10
SSW **MI WELLS** **MI20244857**
1/2 - 1 Mile
Higher

Wellid:	63000003881	Import id:	63028003014
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RANDY LALONE		
Well addr:	276 E BERKSHIRE		
Well depth:	260		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1607
Const date:	1991-12-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	260		
Screen frm:	253		
Screen to:	260		
Swl:	50		
Test depth:	180		
Test hours:	1		
Test rate:	50	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61142635		
Longitude:	-83.26315573		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	96
Pct cm d:	96	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:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	210	A pct aq2:	5

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	95	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	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:	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:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	100
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	100	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	100
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:	F		
Athk2:	210		
Horiz Conduct:	4.762		
Vert Conduct:	.0001		
T2:	1000.02		
D50plek:	365.38328		

A11
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244849**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003873	Import id:	63028003005
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	LARRY G GARNER		
Well addr:	246 HIGHLAND DR		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1976
Const date:	1998-06-21 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	63		
Test depth:	84		
Test hours:	2		
Test rate:	65	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61245715		
Longitude:	-83.26542023		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
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:	12
Pct cm d:	12	Pct cm r:	0
Pct pcm:	80	Pct pcm d:	80
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:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	57	A pct aq2:	18
A pct maq2:	0	A pct pcm2:	82
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Medium	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:	0
Pct maq 1:	0	Pct cm 1:	70
Pct pcm 1:	30	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	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:	F		
Athk2:	57		
Horiz Conduct:	8.77275		
Vert Conduct:	.00121		
T2:	500.047		
D50plek:	51.49382		

A12
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244858**

Wellid:	63000003882	Import id:	63028003015
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	KARL RICHARDSON		
Well addr:	245 HIGHLAND AV		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1994-08-22 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	121		
Screen frm:	121		
Screen to:	125		
Swl:	60		
Test depth:	75		
Test hours:	1		
Test rate:	45	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61244465		
Longitude:	-83.26545203		

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	58	Pct pcm d:	58
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:	53	A pct aq:	9
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	91
A thickns2:	65	A pct aq2:	8
A pct maq2:	0	A pct pcm2:	18
A pct cm2:	0	A pct na2:	74
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	60
Pct na 4:	40	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	20	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	80	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		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

A13
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244848**

Wellid:	63000003872	Import id:	63028003004
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	MICHAEL MILLER		
Well addr:	229 HIGHLAND AV		
Well depth:	99		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	127
Const date:	1990-09-13 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	91		
Screen frm:	91		
Screen to:	99		
Swl:	60		
Test depth:	75		
Test hours:	3		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61234455		
Longitude:	-83.26570683		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	9
Pct aq d:	9	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	66	Pct pcm d:	66
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:	9	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	39	A pct aq2:	23

A pct maq2:	0	A pct pcm2:	77
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Water Bearing	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:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	75
Pct na 2:	25	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
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:	F		
Athk2:	39		
Horiz Conduct:	11.53923		
Vert Conduct:	.0013		
T2:	450.03		
D50plek:	31.89453		

A14
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244847**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003871	Import id:	63028003003
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	NEW CREEATIONS		
Well addr:	228 HIGHLAND AV		
Well depth:	113		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1994-11-23 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	0		
Screen frm:	109		
Screen to:	113		
Swl:	61		
Test depth:	70		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61234455		
Longitude:	-83.26570683		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	20
Pct aq d:	20	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:	68	Pct pcm d:	68
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:	23	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	52	A pct aq2:	44
A pct maq2:	0	A pct pcm2:	56
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	0
Pct maq 1:	0	Pct cm 1:	65
Pct pcm 1:	35	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	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:	F		
Athk2:	52		
Horiz Conduct:	44.23635		
Vert Conduct:	.01793		
T2:	2300.29		
D50plek:	199.26819		

A15
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244846**

Wellid:	63000003870	Import id:	63028003002
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	IVAN C KOBOSH		
Well addr:	210 HIGHLAND AV		
Well depth:	107		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1757
Const date:	1986-07-29 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	103		
Screen frm:	103		
Screen to:	107		
Swl:	50		
Test depth:	60		
Test hours:	2		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61223205		
Longitude:	-83.26599353		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	44
Pct aq d:	44	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	28
Pct cm d:	28	Pct cm r:	0
Pct pcm:	28	Pct pcm d:	28
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:	57	A pct aq2:	30
A pct maq2:	0	A pct pcm2:	35
A pct cm2:	35	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Water Bearing	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:	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:	0	Pct pcm 2:	50
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:	50	Pct pcm 4:	50
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	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:	F		
Athk2:	57		
Horiz Conduct:	89.47723		
Vert Conduct:	.00028		
T2:	5100.202		
D50plek:	465.38664		

16
South
1/2 - 1 Mile
Higher

MI WELLS **MI20244859**

Wellid:	63000003883	Import id:	63028003301
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #1		
Well depth:	127		
Well type:	Type I public		
Wssn:	6080		
Well num:	1	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	8		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	125
Latitude:	42.608778		
Longitude:	-83.258992		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	934		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	932	Elev dif:	2
Elev miv:	934	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	67
Pct cm d:	67	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:	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:	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:	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:	25	Pct maq 4:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	40	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		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

17
SSW
1/2 - 1 Mile
Higher

MI WELLS **MI20244852**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003876	Import id:	63028003008
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	LARRY C RODGES		
Well addr:	1526 WINTHROP		
Well depth:	246		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1995-07-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	242		
Screen frm:	242		
Screen to:	246		
Swl:	87		
Test depth:	100		
Test hours:	1		
Test rate:	100	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61039335		
Longitude:	-83.26586843		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	9
Pct aq d:	9	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	91	Pct pcm d:	91
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:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	159	A pct aq2:	13
A pct maq2:	0	A pct pcm2:	87
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	100
Pct na 6:	0	Pct aq 7:	44
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	56	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	100
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:	F		
Athk2:	159		
Horiz Conduct:	6.60464		
Vert Conduct:	.00115		
T2:	1050.138		
D50plek:	289.75676		

18
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20244861**

Wellid:	63000003885	Import id:	63028004001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ALVIN E TAYLOR		
Well addr:	135 BLOOMFIELD BD		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1968-07-08 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	120		
Screen frm:	120		
Screen to:	125		
Swl:	100		
Test depth:	121		
Test hours:	2.5		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61221715		
Longitude:	-83.26982473		

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	10
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	34
Pct aq d:	34	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	1
Pct cm d:	1	Pct cm r:	0
Pct pcm:	40	Pct pcm d:	40
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:	25	A pct aq:	96
A pct maq:	0	A pct pcm:	0
A pct cm:	4	A pct na:	0
A thickns2:	25	A pct aq2:	96
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	4	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Medium To 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:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	50	Pct na 3:	50
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	95
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	5
Pct aq 6:	96	Pct maq 6:	0
Pct cm 6:	4	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:	25		
Horiz Conduct:	74		
Vert Conduct:	.0025		
T2:	1850.0001		
D50plek:	77.91476		

19
SW
1/2 - 1 Mile
Higher

MI WELLS **MI20261704**

Wellid:	63000022498	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	Threets		
Well addr:	68 East Berkshire		
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1928
Const date:	2002-05-04 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	140		
Screen frm:	136		
Screen to:	140		
Swl:	60		
Test depth:	80		
Test hours:	1		
Test rate:	40	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.60984921		
Longitude:	-83.26732914		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	964
Elev miv:	964	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	39
Pct aq d:	39	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	61
Pct cm d:	61	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:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	80	A pct aq2:	25

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	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:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	25	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:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	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:	F		
Athk2:	80		
Horiz Conduct:	75.00008		
Vert Conduct:	.00013		
T2:	6000.006		
D50plek:	762.33555		

20
SSW
1/2 - 1 Mile
Higher

MI WELLS **MI20244853**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000003877	Import id:	63028003009
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	FRED SILVERMAN		
Well addr:	1616 WINTHROP		
Well depth:	245		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1991-09-18 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	242		
Screen frm:	239.83		
Screen to:	245		
Swl:	90		
Test depth:	97		
Test hours:	1.8		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60847575		
Longitude:	-83.26538663		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	16
Pct aq d:	16	Pct aq r:	0
Pct maq:	8	Pct maq d:	8
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	42	Pct pcm d:	42
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:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	155	A pct aq2:	10
A pct maq2:	13	A pct pcm2:	23
A pct cm2:	0	A pct na2:	55
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	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:	15
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	85	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:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	75	Pct na 5:	25

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	100	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	100
Pct aq 8:	0	Pct maq 8:	40
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	60	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		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

21
NNW
1/2 - 1 Mile
Higher

Site ID:	630641
Groundwater Flow:	Not Reported
Shallowest Water Table Depth:	8
Deepest Water Table Depth:	13
Average Water Table Depth:	Not Reported
Date:	11/11/1992

AQUIFLOW **35767**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for OAKLAND 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 OAKLAND COUNTY, MI

Number of sites tested: 61

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.189 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.539 pCi/L	93%	7%	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.

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 IRAA 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 D

Photograph Log



Photograph #1

Description of Photograph:
View of northeastern portion of the Site looking south.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #2

Description of Photograph:
View of the southwestern portion of the Site and adjacent private residence.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #3

Description of Photograph:
View of western portion of the Site looking east.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Moriah Bloom

Date of Photograph:
December 30, 2009



Photograph #4

Description of Photograph:
View of western portion of the Site looking east. Note the Ulitmate Soccer Arenas in the background.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Moriah Bloom

Date of Photograph:
December 30, 2009



Photograph #5

Description of Photograph:
View of abandoned heating oil AST located on the southeastern portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #6

Description of Photograph:
View of abandoned heating oil AST, tires and other general refuse located on the southeastern portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #7

Description of Photograph:
View of abandoned tires and empty buckets of miscellaneous materials including chain saw engine oil located on the southwest portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #8

Description of Photograph:
View of general refuse located on the southwest portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Stephen P. Zins

Date of Photograph:
December 2, 2009



Photograph #9

Description of Photograph:
View of fire pit located on the northwest portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Moriah Bloom

Date of Photograph:
December 30, 2009



Photograph #10

Description of Photograph:
View of an abandoned boat near the northwest portion of the Site.

Site Location:
South Gentel Parkway
Pontiac, Michigan

Photograph Taken By:
Moriah Bloom

Date of Photograph:
December 30, 2009

APPENDIX E

Qualifications of Environmental Professionals

LFR an ARCADIS company

STEPHEN P. MCCARTHY

Senior Associate Scientist

asbestos management
industrial hygiene
environmental investigations
environmental site assessments

As Director of Site Assessments at LFR Inc. (LFR) Braintree, Massachusetts office, Mr. McCarthy is responsible for the technical supervision of all personnel performing Phase I Environmental Site Assessments (ESAs). His responsibilities include technical oversight, logistics, scheduling and cost control, interface with clients and regulatory agencies, quality control of environmental assessments conducted within the branch and conducting Phase I ESAs throughout the United States.

With over 20 years of experience in the environmental consulting field, Mr. McCarthy has provided his technical expertise on a wide-range of projects for property owners, financial institutions, school departments, governmental agencies and hospitals. Mr. McCarthy has conducted environmental assessments on commercial/retail, residential and industrial properties in accordance with the American Society for Testing and Materials (ASTM) standard practice for Environmental Site Assessments E 1527 and client specific scopes of work. In addition, Mr. McCarthy has conducted asbestos identification surveys, prepared Operations and Maintenance programs, developed asbestos abatement technical specifications, monitored removal of asbestos-containing materials, performed indoor air quality investigations, managed the removal of underground petroleum storage tanks and prepared Spill Prevention, Control and Countermeasure (SPCC) plans.

EDUCATION

B.A. History, Providence College, 1986

REPRESENTATIVE EXPERIENCE

- **Various Properties (Client Confidential), Nationwide**. As Project Manager, Mr. McCarthy was responsible for the overall project management of multi-site/multi-state environmental assessment projects. These projects ranged in size from a single site up to 36 different sites located across the United States. Mr. McCarthy was responsible for project scheduling, cost control, technical oversight and review of all final reports prior to issuance to ensure they complied with ASTM standards and client specific requirements.
- **NationsBank, Dallas, TX.** As Project Manager, Mr. McCarthy was responsible for the overall project management of the performance of 50 Phase I ESAs of bank buildings located throughout the State of Texas within a six-week time frame. The ESAs consisted of inspections of current site operations and a reconnaissance of abutting/adjacent properties, historical research and review of federal, state and local regulatory records.
- **NationsBank, Corsicana, TX.** Performed a Phase I ESAs on three tracts of land in downtown Corsicana, TX. Project involved a detailed historical research on former uses of the tracts of

land revealed numerous suspect underground storage tank (UST) locations. Designed and coordinated performance of a geophysical survey on the three tracts of land to identify the likely presence of USTs to aid in the preparation of the scope of work for a Phase II subsurface investigation. The geophysical survey consisted of the use of a combination of electromagnetic induction (EM31) and ground magnetics. Based upon the findings of the geophysical survey, prepared a scope of work and cost estimates for the performance of the subsurface investigation.

- **NCNB Texas National Bank, Dallas, TX.** Provided asbestos identification surveys on 110 buildings containing over 8 million square feet of space located throughout the state of Texas. Responsibilities consisted of design of the survey strategy, on-site inspection and collection of bulk material samples, assessment of asbestos-containing materials, interpretation of data and preparation of final reports. Project included preparation of recommendations for further action at each facility, if warranted, and associated cost estimates.
- **First Republic Bank, Dallas, TX.** Managed a $2 million dollar asbestos abatement project at an occupied high rise office building. Responsibilities included project design, specification preparation, conducting pre-bid conferences, collection and analysis of air samples, daily inspections of abatement contractor's work practices and consultation with owner's representative on all aspects of the abatement project.
- **First Republic Bank, Dallas, TX.** Performed an asbestos-containing material survey of the 50-story, 1.8 million square foot, First Republic Bank complex in Dallas, Texas. Responsibilities consisted of design of the survey strategy, overall management of the five person survey team, on-site inspection and collection of bulk material samples, assessment of asbestos-containing materials, interpretation of data and preparation of a final report.
- **NationsBank, Dallas, TX.** Coordinated the emergency removal of four underground storage tanks, which were uncovered during construction of a highly publicized branch bank facility. Successfully coordinated with state regulatory officials and a tank removal contractor for the removal of the USTs within 48 hours of detection so as to not impede bank construction. Performed project oversight which included preparation of a health and safety plan, collection of appropriate soil samples from the tank excavation, interpretation of analytical data and preparation of the tank closure report for submission to state regulatory officials.
- **Spill Prevention Control and Countermeasures (SPCC) Plans, NYNEX, various locations throughout New England**. Performed facility inspections and prepared SPCC plans in compliance with regulations of the Environmental Protection Agency (EPA) for various NYNEX facilities located throughout New England.

SEMINARS/COURSES

Hazardous Waste Operations (OSHA 40-hour)

Asbestos Inspector Refresher Course

Asbestos Management Planner Refresher Course

Asbestos Contractors/Supervisor Course

Inspecting Buildings for Asbestos-Containing Materials, Environmental Sciences Inc.,

Managing Asbestos in Buildings, Environmental Sciences Inc.,

Microscopical Identification of Asbestos, Microne Research Institute

Sampling & Evaluating Airborne Asbestos Dust (582), NIOSH

Transport and Fate of Contaminants in the Subsurface, U.S. Environmental Protection Agency (U.S. EPA)

REGISTRATIONS/CERTIFICATIONS

Asbestos Management Planner, Certificate No. 9915171368104

Asbestos Inspector, Certificate No. 9915051068104

PROFESSIONAL HISTORY

LFR Inc., Senior Associate Scientist, 1995 to present

Recon Environmental, Operations Manager, Dallas, TX, 1988 to 1995

Recon Environmental, Project Manager, 1986 to 1988

LFR an ARCADIS company

DOUGLAS M. LINDSAY, P.G.

Senior Project Geologist

hydrogeologic investigations
project management
LSP MCP services
soil and groundwater management

Mr. Lindsay has over 12 years of experience involving subsurface and hydrogeologic investigations, contaminated soil and groundwater management, state and federal regulatory compliance, environmental remediation programs, and American Society for Testing and Materials (ASTM) due diligence. Related projects have included the management of extensive state and federal environmental investigations, subsurface soil and groundwater precharacterization programs, asbestos assessments, lead paint screening, radon sampling, and soil, groundwater, and ambient air field screening. Mr. Lindsay has also conducted groundwater elevation surveys, fate and transport modeling, groundwater and surface water sampling, soil sampling, and soil gas sampling.

Mr. Lindsay has supervised and managed numerous projects simultaneously including operation and maintenance (O&M) of groundwater remediation systems, construction project management, contaminated soil and groundwater management, soil vapor extraction systems, dewatering systems, risk assessments, underground storage tank removals, and Massachusetts Contingency Plan (MCP) regulatory reports. Mr. Lindsay is also involved with researching and evaluating environmental liabilities and determining the cost/benefit analysis associated with applicable remedial measures. Mr. Lindsay manages field staff personnel on the completion of multiple projects.

EDUCATION

B.A. Environmental Science, Boston University, 1995

The School for Field Studies, Rainforest Ecology, Belize, Central America

REPRESENTATIVE EXPERIENCE

- **Subsurface Investigation, Soil Management and Regulatory Closure, Worcester, Massachusetts.** LFR was retained by a private developer for the proposed construction of a retail pharmacy on a property formerly occupied by a truck fueling terminal and lumber yard. Mr. Lindsay oversaw the completion of an ASTM Phase I Environmental Site Assessment and Phase II Subsurface Investigation to investigate potential impacts from former gasoline and diesel fuel aboveground and underground storage tanks. A total of 35 soil borings and 6 monitoring wells were completed to evaluate the nature and extent of soil and groundwater contamination. Based on the results of the sampling data, Mr. Lindsay coordinated the removal of 50 cubic yards of petroleum-contaminated soil for off-site recycling. Results of a site-specific risk characterization concluded that a condition of no significant risk existed. Mr.

Lindsay prepared a Class A-2 Response Action Outcome (RAO) in closure report accordance with the MCP.

- **Construction Management, Soil Disposal Coordination and Tank Removal Activities, Kuss Middle School, Fall River, Massachusetts.** LFR was retained by an earthwork contractor to provide construction management activities and soil disposal coordination during excavation activities associated with the construction of a new middle school building. The property was formerly occupied by textile mill buildings and previous soil sampling results identified contaminated urban fill material which required off-site disposal. During soil excavation activities a 1,000-gallon abandoned underground storage tank was discovered. Mr. Lindsay supervised the removal of the tank, arranged for disposal of the tank and associated soil, and prepared a tank closure report in accordance with tank closure guidance and the Massachusetts Contingency Plan. Mr. Lindsay characterized and coordinated the removal of 1,570 tons of urban fill soils to a Massachusetts Unlined Landfill and a soil recycling facility.
- **MCP and US EPA TSCA Site Closure, Hingham Shipyard – East Side Fill Area, Hingham, Massachusetts.** At the request of a private developer, LFR was retained to delineate and remove PCB-contaminated soil from an area proposed for future residential development. Following the submittal of a US EPA-approved Self-Implementing Plan and a MassDEP-approved Release Abatement Measure (RAM) Plan, Mr. Lindsay oversaw a soil precharacterization program designed to select off-site disposal facilities for the PCB soil. Confirmatory soil samples were collected from test pits at 10-foot sampling frequencies to delineate areas of PCBs containing either greater than or less than 50 mg/kg. Discrete soil samples were collected and analyzed for PCBs in the field with a US EPA-conditionally accepted Dexsil L2000 DX screening instrument. In addition, two overburden and two bedrock groundwater monitoring wells were installed and sampled to assess groundwater conditions. Following the removal of 6,910.13 tons of greater than 50 mg/kg PCB soils and 8,240.47 tons of non-hazardous PCB soil, a site-specific risk assessment concluded that remaining PCB concentrations in soil were below the most-stringent residential cleanup criteria. Mr. Lindsay prepared a Completion of Self-Implementing Plan report and a RAM Completion and Class A-2 RAO report.
- **Precharacterization Program, Readville 5 MBTA Yard, Dedham, Massachusetts.** LFR was retained by a developer interested in constructing residential properties on a former 40-acre rail yard. Mr. Lindsay assisted in the development of a soil precharacterization sampling plan in accordance with MassDEP protocol. Mr. Lindsay supervised a total of 250 test pits in GPS-surveyed locations over a two-week period. As part of the management plan, 900 soil samples were field screened in-situ for RCRA 5 metals with an XRF instrument. The depth of fill material was determined at each location and concentrations of arsenic and lead were presented through 3-D visualization software to the client. Construction management and soil remediation alternatives have been presented at public meetings and will be implemented following public and MassDEP comment.
- **Precharacterization Program, JFK School, Waltham, Massachusetts.** Prior to overseeing field activities, Mr. Lindsay prepared a Soil Management Plan, Construction Materials Management Plan, and a worker Health & Safety Plan for construction activities. Following numerous meetings with the client, Mr. Lindsay identified and selected areas to be sampled as part of a large-scale soil characterization program involved with the redevelopment of the JFK Middle School. A total of 25 test pits were excavated in areas proposed for excavation for foundations and subsurface utilities. Soil quantities were calculated and determined to be

either regulated or unregulated materials. In order to meet stringent project deadlines, facility approvals were expedited and materials transported off-site were managed and documented. A total of 4,500 cubic yards of soil was transported to unlined landfills.

- **Underground Storage Tank Closures and Immediate Response Action, Charlestown, Massachusetts.** Prior assessments performed by LFR had identified the potential for historic USTs at a former rubber manufacturing facility. Since the facility was proposed for residential development, Mr. Lindsay supervised the completion of a supplemental subsurface investigation. Following the identification of two 'benzol' USTs through a GPR survey, a closure strategy was implemented to meet client and MassDEP expedited deadlines. Following MassDEP approvals, an immediate response action was undertaken in response to petroleum contamination in the vicinity of the USTs. Mr. Lindsay oversaw the removal and disposal of the USTs and contaminated soil and groundwater in accordance with the MCP. Mr. Lindsay prepared a response action outcome closure report for site closure in accordance with the MCP.
- **Precharacterization Programs, Logan International Airport, East Boston, Massachusetts.** Mr. Lindsay oversaw four separate soil and groundwater precharacterization programs associated with the redevelopment of the Terminal A area. Activities included supervising the advancement of 80 soil borings and test pits, the installation of monitoring wells, and the collection of 200 soil and groundwater samples. Laboratory analysis results were utilized to characterize the soils and select the most appropriate, cost-effective disposal facilities for the soils. Mr. Lindsay was also responsible for managing field staff and prepared comprehensive reports documenting the findings of the investigations. A total of 270,000 tons of soil was characterized, removed, and transported to 23 Massport and MassDEP-approved facilities. Detailed coordination with the client, subcontractors, and state officials was necessary to complete the project in an organized and timely manner. Additional responsibilities included spill management, health and safety oversight, air sampling, and the operation of temporary groundwater treatment systems for isolated jet-A fuel-impacted areas.
- **Soil Disposal Management/Subcontractor Coordination, Former Mystic Station Power Generating Facility, Everett, Massachusetts.** A total of 60,000 tons of No. 6 oil-contaminated soil and 30,000 tons of urban fill material was excavated and removed from the facility throughout the project's demolition phase. Activities included coordination with seven asphalt batching facilities, two landfills, and several transportation companies. Mr. Lindsay also assisted in the pre-characterization of excavated soil to determine proper off-site disposal alternatives. Continuous management of soil volumes and contractor invoices was necessary to expedite the soil removal process and reduce delays to the project.
- **Tidal Study, Former Mystic Station Power Generating Facility, Everett, Massachusetts.** Mr. Lindsay completed a study involving the effect of tidal fluctuation on groundwater elevation in the vicinity of a large soil excavation and two one-million-gallon bulk fuel oil tanks. The tidal data and its effect on groundwater elevation were used to assess the stability of the supporting matrix beneath the bulk oil tanks. The data assisted in the determination of the type of engineering needed to protect the structural integrity of the fuel oil tanks during planned soil excavation located adjacent to the tanks. By including the tidal fluctuation data, excavation in the immediate vicinity of the tanks was conducted without jeopardizing the tanks or causing delays to the project.

- **Multiphase Investigation, Stoughton, Massachusetts.** In order to bring the property into compliance with the MassDEP, Mr. Lindsay completed an MCP Phase I and Tier Classification to address eight areas of concern. Each area of concern was associated with a release of petroleum compounds and lead from the former use of the Site as an asphalt batching facility. Existing soil and groundwater analysis data, soil removal quantities, and previous RAM Plans completed by others were used to delineate the existing areas of contamination and propose remedial alternatives. The primary sources of subsurface impacts were attributed to asphalt fill material, liquid asphalt tanks, buried drums, and a dry well. The property was classified as a Tier II disposal site and response actions were completed under a new RAM Plan which included oxygenate injections, petroleum-contaminated soil removal, and natural attenuation monitoring. A partial RAO closure report was prepared for seven of the eight areas of concern and natural attenuation monitoring of one area is ongoing.
- **PCB Release Abatement, Former Edgar Station, Weymouth, Massachusetts.** Mr. Lindsay delineated the extent and distribution of high concentrations of PCBs impacted soil and groundwater beneath several former transformers at the facility. In accordance with US EPA TSCA regulations, activities included on-site, quantitative PCB field screening of soil, groundwater, and surface wipe samples, supervision of soil excavation, and management of soil transportation to select soil disposal facilities. Several thousand tons of PCB-impacted soil was removed, risk to on-site workers was eliminated, and future project demolition milestones were completed on schedule.
- **Multiphase Investigation and Remedial Operation Status, Sharon, Massachusetts.** Mr. Lindsay conducted a Phase I and a Phase II Comprehensive Site Assessment at a former manufacturing facility. Activities included the calculation of groundwater flow and determining the extent and distribution of chlorinated solvents in groundwater. Mr. Lindsay assisted in source area location, fate and transport – mass flux calculations, and risk assessment. As part of a Phase III study, remedial alternatives were proposed to comply with stringent drinking water standards applicable to the property. Because natural attenuation and monitoring were determined to be the most cost-effective alternatives, a Phase IV Remedy Implementation Plan and Phase V Remedial Operation Status were prepared and submitted to the MassDEP. Semi-annual groundwater monitoring and status reports are generated for client and MassDEP review.
- **Multiphase Investigation, Stoughton, Massachusetts.** Mr. Lindsay completed a Phase I Site Assessment at a former trucking facility. Activities included the review of prior U.S. Environmental Protection Agency (U.S. EPA) CERCLA investigations, identification of an underground storage tank, and completion of a Tier Classification for the property. A Phase II Comprehensive Site Assessment completed by Mr. Lindsay included the installation of several soil borings and monitoring wells and removal of an underground storage tank and impacted soil in order to delineate subsurface impacts. A Method 3 risk characterization was completed utilizing all existing site data and an RAO closure report was completed.
- **RAOs and Activity and Use Limitations (AULs), Cambridge, Massachusetts.** Several subsurface investigations designed to delineate the extent of urban fill material were supervised by Mr. Lindsay on six parcels of industrial land in Cambridge. At each parcel, site-specific risk characterizations followed by the preparation of separate Activity and Use Limitations restrictive of current and future site uses were completed in order to effectively 'close' the parcels under the MCP.

- **Phase I and Phase II Environmental Investigations, Mesa, Arizona.** Mr. Lindsay completed Phase I and Phase II environmental investigations at a dry cleaning facility and oversaw several Geoprobe borings. Based on soil sampling results, a risk characterization was conducted in order to bring the property into compliance with State of Arizona regulations.
- **Corrective Action Plan and Underground Storage Tank Removal, Alexandria, Virginia.** Mr. Lindsay monitored and maintained a groundwater petroleum extraction system for two years at an active trucking facility. After supervising the dismantling of the groundwater extraction system, over 900 tons of petroleum-contaminated soil was removed and the property was closed in accordance with Virginia regulations.

REGISTRATIONS/CERTIFICATIONS

Professional Geologist, New Hampshire, No. 590

Massachusetts Asbestos Inspector Training

Hazardous Materials Transportation Training and Testing – US DOT

OSHA HazWOPER and Emergency Response Training – 40-hour and Annual 8-hour Refreshers

Niton X-Ray Fluorescent Analyzer (XRF) Certified

PROFESSIONAL HISTORY

LFR, Inc., Senior Project Geologist, April 1999 to present

Ransom Environmental Consultants, Inc., Project Geologist, July 1995 to April 1999

LFR an ARCADIS company

STEPHEN P. ZINS, P.G.

Senior Geologist

soil and groundwater assessment and remediation
asbestos management planning
environmental site assessments
project management

Mr. Zins is a geologist with over 14 years of experience in the environmental field. He has managed soil and groundwater investigations including construction, installation, and operation and maintenance of soil and groundwater remediation systems, as well as industrial wastewater treatment operations. His experience also includes asbestos management planning for industrial and commercial facilities throughout Midwest states. In addition, Mr. Zins has conducted Environmental Site and Compliance Assessments for property transfer and due diligence purposes.

EDUCATION

M.S. Environmental Geology, Indiana/Purdue University, 1995

B.S. Geology, Ball State University, 1993

A.S. CADD, Vincennes University, 1988

REPRESENTATIVE EXPERIENCE

- **Project Manager for a remediation program associated with chlorinated solvent impacts at a former waste disposal facility in central Indiana.** The program entails operation, maintenance and monitoring (OM&M) of an interim pump-and-treat system with the primary objective of groundwater plume containment. Groundwater treatment includes a low profile, venturi-type air stripper and chemical dosing for descaling purposes. Currently conducting a Tiered Human Health and Ecological Risk Assessment using ASTM RBCA guidance prior to initiating a feasibility study to identify and evaluate alternative remediation technologies for long-term implementation at the project site. In addition to the above activities, semi-annual groundwater monitoring well and residential well sampling is required as part of the monitoring program.

- **Managed site investigation and risk assessment for a national container plant in Indianapolis, Indiana.** The investigation effort was focused on the identification of chlorinated solvents present in site soil and groundwater caused by the plant operations. Based on the results of the site investigation and risk assessment, developed site-specific soil and groundwater cleanup objectives and identified areas of environmental concern. Conducted groundwater modeling to select the most cost-effective site remediation methods. Entered the project site into the Indiana Department of Environmental Management (IDEM) Voluntary Remediation Program (VRP) to request approval on the proposed site remediation methods.

Successfully negotiated with the agency to obtain approval of a "no further remediation" letter and Certificate of Completion for the site.

- **Co-authored an approved detailed plan for confirmatory soil sampling submitted to the United States Environmental Protection Agency (US EPA) and IDEM for national rubber manufacturing facility in Noblesville, Indiana.** Objective was to excavate and remove from the designated properties (including residential properties) any soil with concentrations exceeding 1 part per million (ppm) of polychlorinated biphenyls (PCBs). Obtained permits from the city, county and state governmental offices. At the conclusion of all excavation activities, a total of approximately 276 tons of soil with PCB concentrations greater than 50 ppm were excavated and disposed at a licensed hazardous waste landfill. A total of approximately 2,698 tons of soil with PCB concentrations less than 50 ppm were excavated and disposed at a Special Waste landfill. Conducted all confirmatory sampling in accordance with the agency approved sampling plan. Certificates of completion from the IDEM and US EPA have been awarded to the site.

- **Served as the operator for a Class B industrial wastewater treatment system for a former landfill containing various chlorinated organic compounds in groundwater in vicinity of a former lagoon and creek.** The groundwater remediation system included the development of a hydraulic barrier through the installation of a groundwater collection trench that diverts contaminated groundwater into a sump, which pumps the contaminated water through a sprayer into the lagoon. The system was approved by the IDEM VRP.

- **Managed UST regulatory services for owner of multiple gasoline service stations throughout Indiana.** Provide litigation support for all technical soil and groundwater investigations. Based on site investigations, have implemented several cost effective remedial techniques for this client including in-situ remediation, pump and treat, free product skimmers, oxygen release compounds (ORCs), and have obtained an approved Corrective Action Plan from the IDEM for each of these sites. Subsequently, have entered each of these sites into the Excess Liability Trust Fund (ELTF), which is a mechanism for reimbursing the client for costs of remediation.

- **Conducted bulk asbestos survey and prepared operations and maintenance plan (ISO 14000) for a national manufacturing facility in Indiana.** Provide oversight for abatement activities, conduct quarterly inspections and prepare Asbestos Awareness training for all maintenance employees.

- **Negotiated, won and managed master service agreement (MSA) to conduct Phase I Environmental Site Assessments (ESAs) and Phase II ESAs of commercial, light industrial and vacant parcels for national restaurant chain.** Assessed numerous sites undergoing acquisition, divestiture or refinancing. Determined environmental compliance and liabilities based on former land uses and on-site evidence.

- **Conducted over 20 Phase I ESAs throughout US for national agricultural chemical manufacturer headquartered in Zionsville, Indiana.** Several of Phase I ESAs were followed up with site investigations of soil and groundwater and UST removal and closures activities.

- **Managed several Phase I and Phase II ESAs for a national wire processing company including industrial facilities in Indiana, Kentucky, Ohio and Kansas.** Performed remediation of chlorinated solvents and lead in groundwater.

- Managed a Phase II Investigation of a national scrap metal storage facility in northern Indiana involving heavy metals in soil and groundwater.

- **Coordinated field activities for EPA RCRA closure certification of subsurface impoundments at an active foundry in Warsaw, Indiana.** Conducted statistical analysis to determine the amount neutralizing agents required to stabilize foundry waste sludge. Conducted all sampling and provided oversight of all activities.

- **Managed groundwater treatment via trench systems, pump and treat and bioremediation of the release of gasoline into soil and groundwater of a residential neighborhood.** A groundwater recovery trench was constructed adjacent to a city street prior to entering a residential neighborhood. Based on previous investigations, the depth and slope of local bedrock was mapped to locate the trench recovery system in the most effective location in order to protect nearby residential wells.

- Installed and operated several dual-phase vacuum extraction (DPVE) systems including off gas and groundwater treatment at gasoline stations throughout Indiana.

- **Managed field activities for the construction, installation and operations/maintenance of groundwater, soil vapor extraction, and air sparge treatment systems.** Based on a limited investigation, was able to determine the groundwater flow and constituents of concern and install the treatment system to intercept and treat constituents prior to offsite migration.

- Performed well slug tests and analyzed results of slug tests and pumping tests to determine the hydraulic properties of tested aquifer for a national pipe company in Florida.

- Performed waste characterization and manifests for impacted soil remediation by excavation, transportation and disposal at State approved landfills.

- Field Geologist for numerous Underground Storage Tank (UST) removals throughout the Indiana including confirmatory soil sample collection and leading to successful UST closure reporting activities.

PROFESSIONAL REGISTRATIONS

Licensed Professional Geologist, Indiana, No. 2054

40-Hour OSHA HAZWOPER Training, 1995

Class B Industrial Wastewater Treatment Operator

Asbestos Management Planner, Indiana and Ohio

Asbestos Building Inspector, Illinois and Kentucky

AFFILIATIONS

Professional Geologists of Indiana
Indiana Industrial Operators Association
National Groundwater Association

PROFESSIONAL HISTORY

LFR Inc., Senior Geologist, 2009
Roux Associates, Inc., Senior Geologist, 2002 to 2009
Dames & Moore/URS Corporation, Staff/Senior Geologist, 1997 to 2002
August Mack Environmental, Environmental Geologist, 1995 to 1997
Donan Engineering, Field/CADD Technician, 1988 to 1990