

February 5, 2010

010-15317-04

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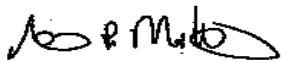
Subject: Phase I Environmental Site Assessment
MLC ID 1309
No Etkin Ground Lease Parcels 85 and 92
Martin Luther King Boulevard South
Pontiac, Michigan

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 U.S., 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

**Phase I Environmental Site Assessment
MLC ID 1309
No Etkin Ground Lease Parcels 85 and 92
Martin Luther King Blvd South
Pontiac, Michigan**

**January 5, 2010
ARCADIS Project No. 010-15317-04**

Prepared for
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Prepared by
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The environmental assessment described herein was conducted by the undersigned, of ARCADIS U.S., Inc.. (ARCADIS). ARCADIS's 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.

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for
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EXECUTIVE SUMMARY

ARCADIS U.S., Inc.. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property identified as No Etkin Ground Lease Parcels 85 and 92, located southwest of the intersection of Martin Luther King Jr. Boulevard South and South Boulevard East in Pontiac, Oakland County, Michigan (the Site). The Site 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 subject Site Parcels 85 and 92. Records indicate that there are no deed restrictions for Site Parcels 85 and 92.

Historical information indicates that the Site was undeveloped from the late 1930s to the mid-1960s. From the mid-1960s to the early 1990s, the Site appears to have been used for the parking of vehicles associated with the former Pontiac Assembly Plant. From 2000 to present, the Site has been a vacant parcel of land with the exception of a gravel road which provides access to a cellular phone communication tower and associated communication equipment at the southern portion of the Site. The tower and equipment is operated by American Tower Corporation.

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's Site visit, a cellular phone communication tower, associated communication equipment, and one propane aboveground storage tanks (ASTs) were observed at the southern portion of the Site. ARCADIS also observed areas of concrete debris, two soil piles, railroad ties, household trash, and empty five-gallon containers.
- The Site was not listed on the environmental databases searched by Environmental Data Resources, Inc. (EDR). An off-site environmental concern includes the Gaukler Storage Company property located approximately 200 feet north of the Site which is listed on the underground storage tank (UST) and leaking underground storage tank (LUST) databases. The Gaukler property is also identified as Ankerson Resource Systems which is listed as a historic landfill. Records indicate that the LUST was closed with the Michigan Department of Environmental Quality (MDEQ) on September 27, 1999. Based on its regulatory status, this property does not appear to present an environmental concern to the Site.

Conclusion

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property identified as Parcels 85 and 92, located southwest of the intersection of Martin Luther King Jr. Boulevard South and South Boulevard East in Pontiac, Oakland County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has not revealed evidence of RECs in connection with the Site.

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- C EDR Radius Map Report
- D Photograph Log
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1.0 INTRODUCTION

ARCADIS U.S., Inc.. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property identified as No Etkin Ground Lease Parcels 85 and 92, located southwest of the intersection of Martin Luther King Jr. Boulevard South and South Boulevard East in Pontiac, Oakland County, Michigan (the Site). The Site 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. The No Etkin Ground Lease parcels were part of the larger set of parcels that remained after completion of the RCRA closure activities at the Pontiac Assembly Plant that were determined to have no remaining environmental concerns.

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's 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's 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 at located southwest of the intersection of Martin Luther King Jr. Boulevard South and South Boulevard East in Pontiac, Oakland County, Michigan. According to the Oakland County Assessor's Office, the two Site parcels are identified as 19-04-226-014 (Parcel 92) and 19-04-226-017 (Parcel 85). Parcel 85 covers 3.23 acres and Parcel 92 covers 4.59 acres of land. The Site parcels 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 triangular-shaped tract of land that is situated in a mixed commercial, industrial, and residential 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 occupied by gravel road which provides access to a cellular phone communication tower and associated communication equipment at the southern portion of the Site. American Tower Corporation operates the tower and communication equipment.

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

A gravel road provides access to a cellular phone communication tower and associated communication equipment at the southern portion of the Site. Municipal sewer, water utilities and electrical utilities are located in the vicinity of the Site. Refer to Figure 2 for a plan depicting the layout of the Site.

2.4.1 Source of Potable Water

The City of Pontiac provides drinking water to the Site area.

2.4.2 Sewage Disposal System

The City of Pontiac municipal sewer system services the Site area.

2.4.3 Heating/Cooling Systems

Heating and cooling systems are not present at the Site.

2.4.4 Solid Waste Disposal

Solid waste is not generated at the Site. ARCADIS observed scattered household trash, concrete debris, railroad ties, and empty five-gallon containers at the Site. No evidence of surficial staining was observed in these areas.

2.5 Current Uses of Adjoining Properties

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

- The Site is abutted to the north by a commercial building occupied by Gaukler Storage Company addressed at 400 South Boulevard East.
- The Site is abutted to the south and west by the Grand Trunk Rail Road (GTRR) easement beyond which are residential/commercial storage properties.
- The Site is abutted to the east by Martin Luther King Boulevard South across which are former GM facilities.

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

According to the Oakland County Assessor's Office, the Site is owned by General Motors Corporation; however, General Motors Corporation has changed its name to Motors Liquidation Company.

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

According to regulatory information reviewed by ARCADIS, the No Etkin Ground Lease consists of various separate parcels that were originally part of the former GM Pontiac Assembly Plant which is located to the east of the Site across Martin Luther King Boulevard South. The Pontiac Assembly Plant began operations in 1927 and was closed in August 1990. Redevelopment was initiated in 1991 and the plant was decommissioned between 1991 and 1995. Resource Conservation and Recovery Act (RCRA) closure activities and corrective actions have been completed on all of the former Pontiac Assembly Plant parcels. 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 subject Site Parcels 85 and 92. Records indicate that there are no deed restrictions for Site Parcels 85 and 92.

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 available.

A copy of the EDR Sanborn maps no coverage 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 the Site as undeveloped land. Several commercial buildings are present to the northwest of the Site. The surrounding area to the east, south, and west appears to be primarily undeveloped land. A railroad easement is present along the southwest boundary of the Site, beyond which is farmland.

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

The 1949 photograph depicts Site as undeveloped land with graded areas at the northeastern portion of the Site. The land adjacent to the northwest of the Site has been further developed with several large commercial/industrial buildings. Northeast of the Site is developed with two smaller commercial buildings. Property to the east of the Site has been developed with several large industrial buildings and parking areas likely associated with the GM Pontiac Assembly Plant. Southwest of the Site appears to be covered with vegetation.

The 1957 photograph depicts the central and eastern portions as graded areas which extend onto property abutting to the east. The western portion of the Site appears to be undeveloped and vegetated. Property adjacent to the southwest of the Site appears to be undeveloped and vegetated. The large commercial/industrial building depicted to the northwest of the Site has been expanded to the east. The remaining surrounding areas are essentially unchanged from the 1949 photograph.

The 1964 photograph depicts the Site as a parking area for truck trailers. The surrounding areas are essentially unchanged from the 1957 photograph. Property abutting the Site to the southwest across the railroad easement has been developed with large commercial/industrial buildings.

The 1972 photograph depicts the Site as a parking area with truck trailers located at the southern portion of the Site. The parking areas appear to be divided by mounds. The Site appears to be connected to additional parking areas to the east that are associated with the former Pontiac Assembly Plant. Property in the vicinity of the Site is similar to that shown on the 1964 photograph; however, additional commercial buildings appear to the southwest of the Site across the railroad easement.

The 1980 photograph depicts the Site as a parking area for truck trailers or possible automotive equipment. Martin Luther King Boulevard South is now present to the east of the Site. The remaining surrounding areas are essentially unchanged from the 1972 photograph.

The 1993 photograph depicts the Site as an undeveloped graded area. A large building has been added to property to the east across Martin Luther King Boulevard. The adjacent property to the southwest across the railroad easement has been developed with several small commercial units (self storage units). The remaining surrounding areas are essentially unchanged from the 1972 photograph.

The 2000 photograph depicts the Site as a grassy area with an access road from Martin Luther Boulevard South. The access road extends to a small building and a cell phone communication tower located at the southern portion of the Site. The property to the east across Martin Luther King Boulevard has expanded a large building and removed the building noted in the 1993 photograph. Asphalt parking areas have been constructed at the northeast portion of the property to the east of the Site. The adjacent property to the southwest of the Site has been developed with several small commercial units (self storage units). The remaining surrounding areas are essentially unchanged from the 1972 photograph.

The 2005 photograph depicts the Site the surrounding areas as similar to the 2000 photograph.

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

4.1.4 City Directories

ARCADIS contracted EDR to conduct a city directory search for the Site and surrounding area. EDR reviewed city directories for the Site for the years 1922 through 2009 in approximately five-year intervals, as available. City directory information for the Site was not available. The EDR report also presents listings for other nearby addresses. The listings include both residential and commercial properties. No obvious environmentally significant listings were found in the immediate area of the Site.

The EDR City Directory Abstract is included in Appendix B.

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 undeveloped with wetland vegetation. South Boulevard East is present to the north of the Site and the GTRR railroad easement is present along the southwest boundary of the Site. The surrounding properties are also vacant with the exception of a church located east of the Site on the south side of South Boulevard East.

The 1943 topographic map shows the Site as unchanged from the 1907 map. Two large commercial/industrial buildings are present to the northwest of the Site; a rail spur extends from GTRR towards these buildings. The property immediately east of the Site is undeveloped, beyond which is a large building likely associated with the GM Pontiac Assembly Plant.

The 1952 topographic map shows the Site as unchanged from the 1943 map. Four additional industrial buildings are present on the property east of the Site.

The 1968 topographic map shows the Site as undeveloped. An additional building is present northwest and north of the Site. The property east of the Site has been further developed with several small buildings.

The 1973 through 1997 appear relatively unchanged from the 1968 map with the exception of the addition of Martin Luther King Boulevard South adjacent to the east side of the Site beginning on the 1983 map.

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

Based on historical information, the Site was undeveloped from the late 1930s to the mid-1960s. From the mid-1960s to the early 1990s, the Site appears to have been used for the parking of vehicles associated with the former Pontiac Assembly Plant. From 2000 to present, the Site has been a vacant parcel of land with the exception of a gravel road which provides access to a cellular phone communication tower and associated communication equipment at the southern portion of the Site. The tower and equipment is operated by American Tower Corporation.

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 commercial/industrial purposes. Property abutting to the north has been developed for industrial/commercial/storage purposes since at least 1937. Property to the east across Martin Luther King Boulevard South has been historically occupied by the GM Pontiac Assembly Plant which began operations in 1927 and was closed in August 1990. Redevelopment was initiated in 1991 and the plant was decommissioned between 1991 and 1995.

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 949 feet. Topographically, the Site slopes to the southeast with an approximately 10 foot change in elevation between the north and south portions 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 such that the original characteristics of the soil are no longer retained.

4.3.2 Hydrology

4.3.2.1 Surface Water

Surface water was not visible on Site or at surrounding properties. 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, towards Hadsells Pond, which is located approximately 2,000 feet southwest of the Site.

4.3.2.2 Groundwater

Groundwater is expected to flow to the southwest, towards Hadsells Pond and Lower Long Lake.

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	1	-
RCRA CORRACTS	1 mile	No	0	0	1	1	0
RCRA TSD	0.50 mile	No	0	0	0	1	-
RCRA Generators	Site & adjacent	No	0	0	3	-	-
ERNS Site	Site	No	-	-	-	-	-
US IC/EC Registries	Site	No	-	-	-	1	-
SHWS	1 mile	No	0	0	0	0	1
State & Tribal SWF/LF	0.50 mile	No	0	0	0	0	-
State & Tribal LUST	0.50 mile	No	0	1	0	4	-
State & Tribal USTs	Site & adjacent	No	0	1	1	-	-
State ASTs	Site & adjacent	No	0	1	-	-	-
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	No	0	0	1	3	-
Spills	Site	No	-	-	-	-	-
Drycleaners	0.25 mile	No	0	0	0	-	-

4.4.1 Site

The Site was not 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 two CERCLIS-NFRAP facilities within 0.5 mile of the Site.

Pontiac Medical Associates Mercury Spill at 44696 Woodward Avenue is located approximately 1,060 feet to the 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 its regulatory status and distance from the Site, this facility does not appear to present an environmental concern to the Site.

GMC Truck & Coach Division Pontiac at 660 South Boulevard East is located approximately 1,790 feet east/northeast and is expected to be hydraulically upgradient of the Site. The database listing is currently classified as “No Site Assessment Work Needed,” and is listed as archived. Based on its distance and regulatory status, this property does not appear to present an environmental concern to the Site.

RCRA CORRACTS

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

GMC Truck & Coach Division Pontiac at 660 South Boulevard East is located approximately 1,790 feet east/northeast and is expected to be hydraulically upgradient of the Site. The database indicates that the facility is monitoring to confirm that groundwater remains within the existing area of contaminated groundwater. A petition for No Further Action was received on October 12, 2006. A decision on petition for No Further Action was dated December 19, 2006. No other information regarding this decision was listed. The database also lists the facility as having several violations between 1984 through 2001. However, based on its distance from the Site, this property does not appear to represent an environmental concern to the Site.

General Motors Company North America at 200 South Boulevard is located approximately 4,180 feet west/northwest. The database lists the facility as a low RCRA corrective priority. Based on the regulatory status of the facility and the distance from the Site, this facility does not appear to represent an environmental concern to the Site at this time.

RCRA NON-CORRACTS

GMC Truck & Coach Division Pontiac at 660 South Boulevard East is located approximately 1,790 feet east/northeast and is expected to be hydraulically upgradient of the Site. As discussed in the preceding section, this facility does not appear to present an environmental concern to the Site at this time.

RCRA GENERATORS LIST

Pontiac Medical Associates Mercury Spill at 44696 Woodward Avenue is located approximately 1,060 feet to the west/southwest and is expected to be hydraulically downgradient of the Site. The database listing is CESQG with no violations found. Based on its regulatory status and distance from the Site, this facility does not appear to represent an environmental concern to the Site.

Auto Clinic at 44732 Woodward Avenue is located approximately 1,090 feet to the west/southwest and is expected to be hydraulically downgradient of the Site. The database listing is CESQG with no violations found. Based on its regulatory status and distance from the Site, this facility does not appear to represent an environmental concern to the Site.

International Transmission Company located approximately 1,200 feet west of the Site and is expected to be hydraulically downgradient of the Site. The database listing is CESQG with no violations found. Based on its regulatory status and distance from the Site, this facility does not appear to represent an environmental concern to the Site.

FEDERAL INSTITUTIONAL CONTROLS/ENGINEERING CONTROLS REGISTRIES

GMC Truck & Coach Division Pontiac at 660 South Boulevard East is located approximately 1,790 feet east/northeast and is expected to be hydraulically cross-gradient of the Site. No other information is listed in the database regarding institutional controls. According to information reviewed by ARCADIS, GM recorded deed use restrictions on four of the parcels at this address. The restrictions are for groundwater use and land use. This facility does not appear to represent an environmental concern to the Site.

STATE- AND TRIBAL-EQUIVALENT CERLIS

Akzo Nobel Coatings, Inc. located 120 Franklin Road is located approximately 4,800 feet west/northwest of the Site. The database listing is currently classified as “Evaluation in Progress.” Although this property is expected to be hydraulically upgradient of the Site, based on its distance this facility does not appear to represent an environmental concern to the Site.

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

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 five LUST sites within 0.50-miles of the subject Site. Four of the facilities are more than a quarter mile away from the Site, while three of the facilities are closed. None of the open facilities are located within a quarter mile of the Site.

Gaukler Storage Company at 400 South Boulevard East is located approximately 200 feet to the west/northwest and is expected to be hydraulically upgradient of the Site. According to the EDR, the property is listed as having removed three USTs and one LUST incident which was closed on September 27, 1999. The USTs are identified as one 10,000-gallon diesel tank which was removed on April 9, 1999 and two 5,000-gallon gasoline tanks which were removed on June 9, 1999. Based on its regulatory status, this property does not appear to present an environmental concern to the Site.

Pontiac Fuel, Inc. at 45054 Woodward Avenue is located approximately 1,650 feet to the west/northwest and is expected to be hydraulically crossgradient of the Site. According to the EDR report, a gasoline release was reported at this facility on May 8, 2003. The database listing is currently classified as “Open.” Based on the identification of a responsible party for the release, direction relative to the inferred groundwater flow, and distance from the Site this facility does not appear to represent an environmental concern to the Site at this time.

GM-Pontiac Centerpoint Campus at 660 South Boulevard East is located approximately 1,400 feet east/northeast of the Site. According to the EDR report, twelve releases have occurred at the property between 1991 and 2005; four of the releases are closed. Based on the identification of a responsible party for the release, direction relative to the inferred groundwater flow, and distance from the Site, this facility does not appear to represent an environmental concern to the Site at this time.

Landfill/Solid Waste Disposal Sites

EDR identified one historical landfill within 0.125 miles of the subject Site.

Ankerson Resource Systems Incorporated at 400 South Boulevard East is located 200 feet to the north and is expected to be hydraulically upgradient of the Site. According to the EDR report, the facility is inactive. Based on the regulatory status of the property, this property is not expected to adversely affect the environmental condition of 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 19 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 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 records on file for the Site pertaining to ASTs, USTs or the storage or release of oil or hazardous material (OHM).

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Moriah Bloom of ARCADIS visited the Site on December 30, 2009. The weather at the time of ARCADIS's investigation was cool and cloudy, with a temperature of approximately 25 degrees Fahrenheit. ARCADIS observed the Site; however, observations were limited because snow covered the Site. Photographs are included in Appendix D.

5.2 Current Site Use

The Site is generally vacant land with a small area of the southeastern portion of the Site occupied by cellular phone communication tower and associated communication equipment which is stored in a small building. The cellular phone communication tower and associated equipment is operated by American Tower Corporation. The Site is encompassed by a chain link fence. Several support towers associated with high tension electrical lines are located at the southern portion of the Site.

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 a propane tank adjacent to the communication equipment operated by American Tower Corporation.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS did not observe containers at the Site which may have contained petroleum products. Several empty discarded five-gallon containers were observed at the northern portion of the Site.

5.3.4 Unlabeled Drums/Containers

ARCADIS did not observe drums at the Site. However, several empty five-gallon buckets were observed on the northern portion of the Site.

5.3.5 Stained Soil or Pavement

ARCADIS was limited to observations of stained soil at the Site due to the Site being covered with snow at the time of reconnaissance.

5.3.6 Stains or Corrosion

ARCADIS was limited to observations of stained soil at the Site due to the Site being covered with snow at the time of reconnaissance.

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 evidence of electrical transformers at the Site or PCB-containing equipment at the Site.

5.3.9 Solid Waste/Dumping

Solid waste is not generated at the Site. ARCADIS observed household trash scattered at the Site and areas of concrete debris, two soil piles, railroad ties, and empty five-gallon containers. In addition, several miscellaneous items such as mailboxes, tires, etc. were present throughout the Site.

5.3.10 Site Drainage

Surface water on the Site is directed to the north and west along the adjacent roadways. ARCADIS did not observe catch basins at the Site.

5.3.11 Pits, Ponds, Lagoons and Pools of Liquid

ARCADIS did not observe ponds, lagoons or pools 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 observed two mounds of soil on the southern and northwestern portions of the Site. In addition, debris including railroad ties, concrete pipes, concrete barriers and broken concrete was observed throughout the Site.

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 occupied by American Tower Corporation.

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

An off-site environmental concern includes the Gaukler Storage Company property located approximately 200 feet north of the Site which is listed on the UST and LUST databases. The Gaukler property is also identified as Ankerson Resource Systems which is listed as a historic landfill. Records indicate that the LUST was closed with the MDEQ on September 27, 1999. Based on its regulatory status, this property is not expected to present an environmental concern to the Site.

7.2 Historical Recognized Environmental Conditions

There are no historical recognized environmental conditions known at the Site.

7.3 De Minimis Conditions

ARCADIS observed *de minimis* dumping of general refuse in several areas throughout the Site.

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 identified as No Etkin Ground Lease Parcels 85 and 92, located southwest of the intersection of Martin Luther King Jr. Boulevard South and South Boulevard East in Pontiac, Oakland County, Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has not revealed evidence of RECs in connection with the Site.

9.0 DEVIATIONS/DATA GAPS

ARCADIS did not identify any deviations or data gaps.

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
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:

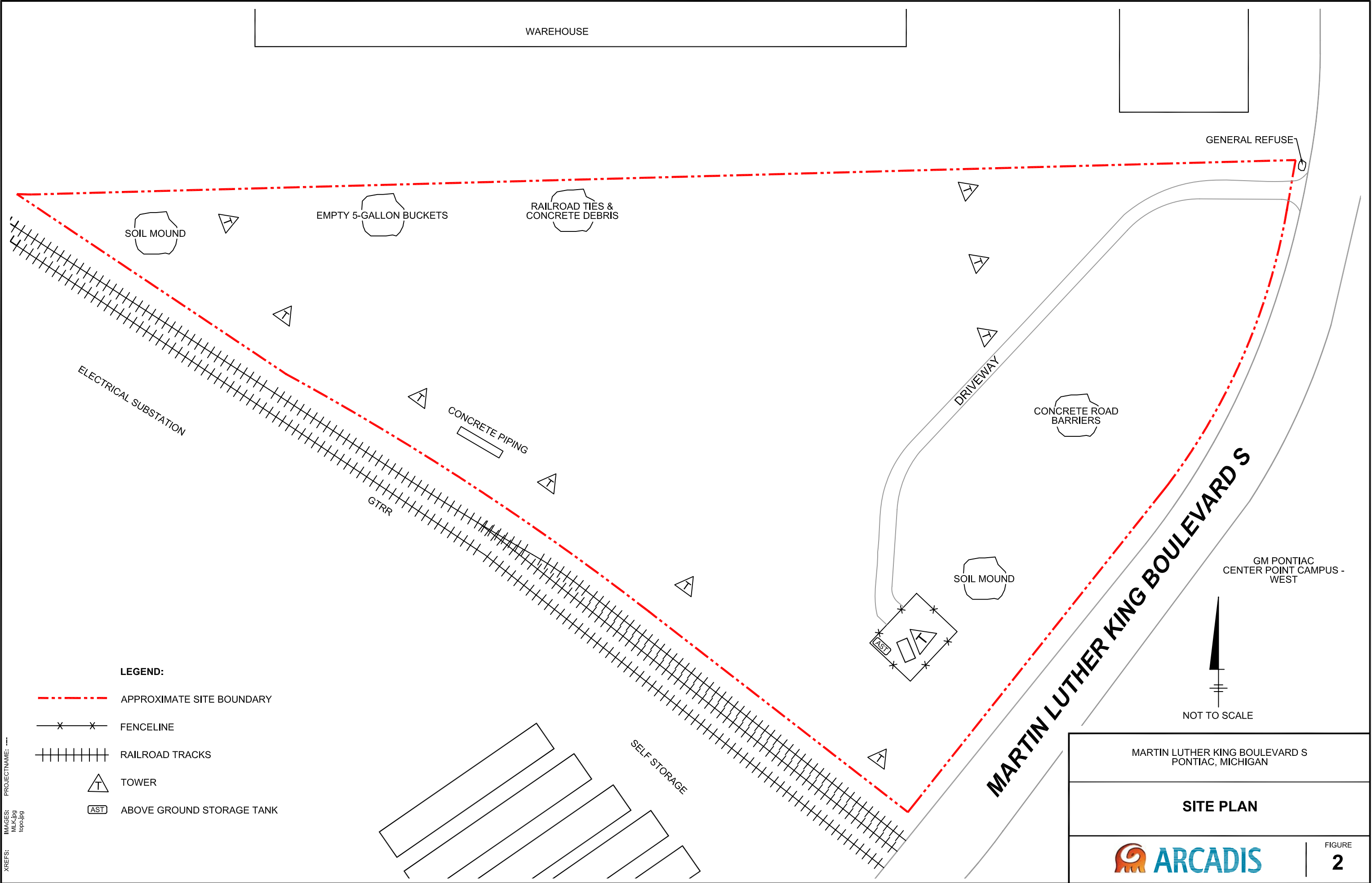
- *The EDR Aerial Photo Decade Package*, Inquiry Number 2601306.5, September 30, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2648698.2s, December 1, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Sanborn Map Report*, Inquiry Number 2601306.3, September 28, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR Topographic Map Report*, Inquiry Number 2601306.4, September 28, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.
- *The EDR City Directory Abstract*, Inquiry Number 2648698.6, December 3, 2009, 440 Wheelers Farms Road, Milford, Connecticut 06461.

Oakland County

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

FIGURES

CITY:(Read) DIV:(GROUP):(Read) DB:(Read) LD:(Opt) PIC:(Opt) PWT:(Read) TMT:(Opt) LYT:(OPTION)=-OFF=REF-
G:\CAD\BNO\HES01\1531740010\15317401\BNO153174001\153174004.dwg LAYOUT: FIGURE 2 : SAVED: 1/14/2010 2:05 PM ACADVER: 17.15 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 1/14/2010 2:05 PM BY: HALLIWELL, TRISH
XREFS: PROJECTNAME: ---
IMAGES: MLK.jpg
topo.jpg



LEGEND:

- APPROXIMATE SITE BOUNDARY
- FENCELINE
- RAILROAD TRACKS
- T TOWER
- AST ABOVE GROUND STORAGE TANK

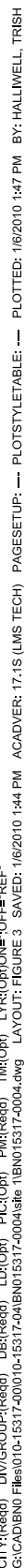


FIGURE
1

APPENDIX A

User Questionnaire



ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: Dec. 29, 2009
Site Name: Non Etkins 85, 92 Your Name: Robert W. Hare
Site Location: Pontiac, MI Your Title: Proj. Mgr.
Relationship to Site: ☐ Owner ☐ Occupant ☐ Purchaser ☒ 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 is not provided, please complete 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 ☒ 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 ☒ Unknown ☐ N/A

If Yes, please explain: _____



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 ☒ 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 ☒ 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 ☒ 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 ☒ Unknown ☐ N/A

If Yes, please explain: _____

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

☐ Yes ☐ No ☒ Unknown ☐ N/A

If Yes, please explain: _____



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 ☒ 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 ☒ 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 ☒ 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 ☒ Unknown ☐ N/A

If Yes, please explain: _____



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

☐ Yes

☐ No

☒ 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

☒ N/A

If Yes, please explain: _____

APPENDIX B

Historical Research Documentation

Aerial Photographs

1309 - Centerpoint Land

Martin Luther King Boulevard S
Pontiac, MI 48341

Inquiry Number: 2649176.5

December 03, 2009

The EDR Aerial Photo Decade Package

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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Date EDR Searched Historical Sources:

Aerial Photography December 03, 2009

Target Property:

Martin Luther King Boulevard S

Pontiac, MI 48341

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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
1957	Aerial Photograph. Scale: 1"=500'	Flight Year: 1957	CSS
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	ASCS
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

INQUIRY #: 2649176.5

YEAR: 1937

| = 500'



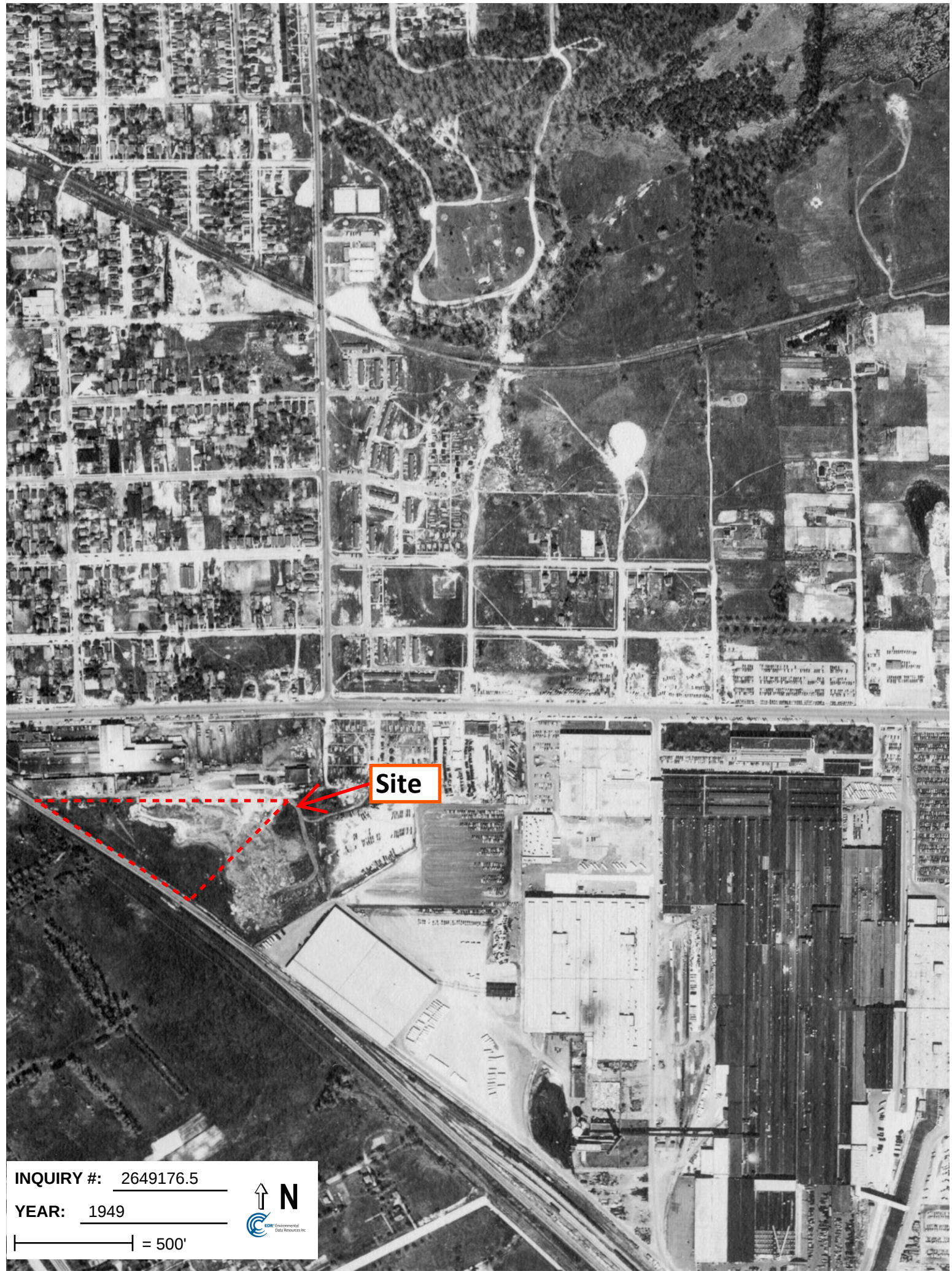


INQUIRY #: 2649176.5

YEAR: 1940

| = 500'





INQUIRY #: 2649176.5

YEAR: 1949

| = 500'





Site

INQUIRY #: 2649176.5

YEAR: 1957

| = 500'





INQUIRY #: 2649176.5

YEAR: 1964

| = 500'





INQUIRY #: 2649176.5

YEAR: 1972

| = 600'



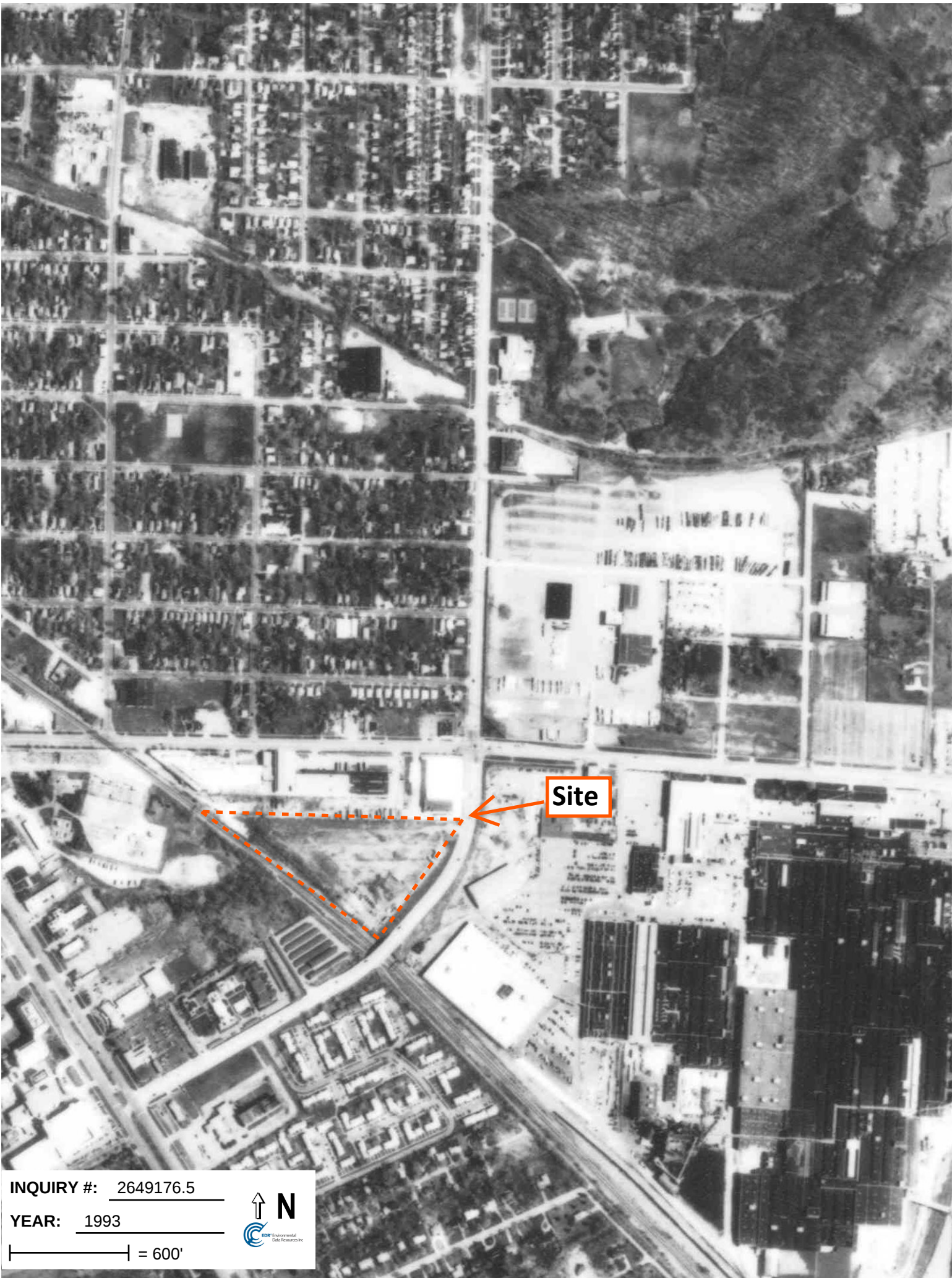


INQUIRY #: 2649176.5

YEAR: 1980

| = 500'





Site

INQUIRY #: 2649176.5

YEAR: 1993

| = 600'





INQUIRY #: 2649176.5

YEAR: 2000

| = 500'





INQUIRY #: 2649176.5

YEAR: 2005

| = 604'



Sanborn Maps

1309 - Centerpoint Land

Martin Luther King Boulevard S
Pontiac, MI 48341

Inquiry Number: 2649176.3

December 01, 2009

Certified Sanborn® Map Report

Certified Sanborn® Map Report

12/01/09

Site Name:

1309 - Centerpoint Land
Martin Luther King Boulevard S
Pontiac, MI 48341

Client Name:

LFR Inc
194 Forbes Road
Braintree, MA 02184

EDR Inquiry # 2649176.3

Contact: Sean Drain



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Certified Sanborn Results:

Site Name: 1309 - Centerpoint Land
Address: Martin Luther King Boulevard S
City, State, Zip: Pontiac, MI 48341
Cross Street:
P.O. # NA
Project: NA
Certification # EA80-4B38-8ED9



Sanborn® Library search results
Certification # EA80-4B38-8ED9

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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City Directory Abstract

1309 - Centerpoint Land

Martin Luther King Boulevard S
Pontiac, MI 48341

Inquiry Number: 2649176.6
December 18, 2009

The EDR-City Directory Abstract

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

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New for 2009, the EDR City Directory Abstract has been enhanced with additional information and features. These enhancements will make your city directory research process more efficient, flexible, and insightful than ever before. The enhancements will improve the options for selecting adjoining properties, and will speed up your review of the report.

City Directory Report. Three important enhancements have been made to the EDR City Directory Abstract:

1. *Executive Summary.* The report begins with an Executive Summary that lists the sources consulted in the preparation of the report. Where available, a parcel map is also provided within the report, showing the locations of properties researched.
2. *Page Images.* Where available, the actual page source images will be included in the Appendix, so that you can review them for information that may provide additional insight. EDR has copyright permission to include these images.
3. *Findings Listed by Location.* Another useful enhancement is that findings are now grouped by address. This will significantly reduce the time you need to review your abstracts. Findings are provided under each property address, listed in reverse chronological order and referencing the source for each entry.

Options for Selecting Adjoining Properties. Ensuring that the right adjoining property addresses are searched is one of the biggest challenges that environmental professionals face when conducting city directory historical research. EDR's new enhancements make it easier for you to meet this challenge. Now, when you place an order for the EDR City Directory Abstract, you have the following choices for determining which addresses should be researched.

1. *You Select Addresses and EDR Selects Addresses.* Use the "Add Another Address" feature to specify the addresses you want researched. Your selections will be supplemented by addresses selected by EDR researchers using our established research methods. Where available, a digital map will be shown, indicating property lines overlaid on a color aerial photo and their corresponding addresses. Simply use the address list below the map to check off which properties shown on the map you want to include. You may also select other addresses using the "Add Another Address" feature at the bottom of the list.
2. *EDR Selects Addresses.* Choose this method if you want EDR's researchers to select the addresses to be researched for you, using our established research methods.
3. *You Select Addresses.* Use this method for research based solely on the addresses you select or enter into the system.
4. *Hold City Directory Research Option.* If you choose to select your own adjoining addresses, you may pause production of your EDR City Directory Abstract report until you have had a chance to look at your other EDR reports and sources. Sources for property addresses include: your Certified Sanborn Map Report may show you the location of property addresses; the new EDR Property Tax Map Report may show the location of property addresses; and your field research can supplement these sources with additional address information. To use this capability, simply click "Hold City Directory research" box under "Other Options" at the bottom of the page. Once you have determined what addresses you want researched, go to your EDR Order Status page, select the EDR City Directory Abstract, and enter the addresses and submit for production.

Questions? Contact your EDR representative at 800-352-0050. For more information about all of EDR's 2009 report and service enhancements, visit www.edrnet.com/2009enhancements

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Source</u>	<u>TP</u>	<u>Adjoining</u>	<u>Text Abstract</u>	<u>Source Image</u>
2009	Bresser's Criss-Cross Directory	-	X	X	-
2004	Bresser's Criss-Cross Directory	-	X	X	-
1999	Bresser's Criss-Cross Directory	-	X	X	-
1994	Bresser's Criss-Cross Directory	-	X	X	-
1989	Bresser's Criss-Cross Directory	-	X	X	-
1984	Bresser's Criss-Cross Directory	-	X	X	-
1979	Bresser's Criss-Cross Directory	-	X	X	-
1973	Bresser's Criss-Cross Directory	-	X	X	-
1962	Polk's City Directory	-	X	X	-
1957	Polk's City Directory	-	X	X	-
1952	Polk's City Directory	-	X	X	-
1945	Polk's City Directory	-	X	X	-
1939	Polk's City Directory	-	X	X	-
1931	Polk's City Directory	-	X	X	-
1927	Polk's City Directory	-	X	X	-
1922	Polk's City Directory	-	X	X	-

EXECUTIVE SUMMARY

SELECTED ADDRESSES

The following addresses were selected by the client, for EDR to research. An "X" indicates where information was identified.

<u>Address</u>	<u>Type</u>	<u>Findings</u>
525 South Blvd East	Client Entered	X

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Martin Luther King Boulevard S
Pontiac, MI 48341

FINDINGS DETAIL

Target Property research detail.

No Addresses Found

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

Plainfield Ave.

Plainfield Ave.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
2004	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
1962	-No Addresses Listed on Plainfield Ave.	Polk's City Directory
1957	-No Addresses Listed on Plainfield Ave.	Polk's City Directory
1952	-No Addresses Listed on Plainfield Ave.	Polk's City Directory
1945	-No Addresses Listed on Plainfield Ave.	Polk's City Directory
1939	-No Addresses Listed on Plainfield Ave.	Polk's City Directory
1931	-No Addresses Listed on Plainfield Ave.	Polk's City Directory

South Blvd East

South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed Between Plainfield Ave. & Bradford St.	Bresser's Criss-Cross Directory
2004	-No Addresses Listed Between Plainfield Ave. & Bradford St.	Bresser's Criss-Cross Directory

443 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Residential	Bresser's Criss-Cross Directory
2004	Residential	Bresser's Criss-Cross Directory
1999	Residential	Bresser's Criss-Cross Directory
1994	No Return	Bresser's Criss-Cross Directory
1989	Residential	Bresser's Criss-Cross Directory
1984	Residential	Bresser's Criss-Cross Directory
1979	Residential	Bresser's Criss-Cross Directory
1973	Residential	Bresser's Criss-Cross Directory
1962	Residential	Polk's City Directory
1957	Residential	Polk's City Directory
1952	Residential	Polk's City Directory
1945	Residential	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1939	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

451 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	Vacant	Polk's City Directory
1957	Residential	Polk's City Directory
1952	Residential	Polk's City Directory
1945	Residential	Polk's City Directory
1939	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

455 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2004	Residential	Bresser's Criss-Cross Directory
1984	Nell Trkg. & Demolition	Bresser's Criss-Cross Directory
1931	Vacant	Polk's City Directory
1922	Residential	Polk's City Directory

469 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1931	Vacant	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

471 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	United Missionary Baptist Church	Bresser's Criss-Cross Directory
2004	United Missionary Baptist Church	Bresser's Criss-Cross Directory
1999	United Missionary Baptist Church	Bresser's Criss-Cross Directory
1994	United Missionary Baptist Church	Bresser's Criss-Cross Directory
1989	United Missionary Baptist Church	Bresser's Criss-Cross Directory
1984	No Return	Bresser's Criss-Cross Directory
1979	No Return	Bresser's Criss-Cross Directory
1973	Residential	Bresser's Criss-Cross Directory
1962	Residential	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1957	Residential	Polk's City Directory
1952	Residential	Polk's City Directory
1945	Residential	Polk's City Directory
1939	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Vacant	Polk's City Directory

472 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1939	Residential	Polk's City Directory

473 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	No Return	Bresser's Criss-Cross Directory
1989	No Return	Bresser's Criss-Cross Directory
1984	No Return	Bresser's Criss-Cross Directory
1979	No Return	Bresser's Criss-Cross Directory
1973	No Return	Bresser's Criss-Cross Directory
1962	Residential	Polk's City Directory
1957	Residential	Polk's City Directory
1952	Residential	Polk's City Directory
1945	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

477 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1945	Vacant	Polk's City Directory
1939	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

483 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	Residential	Polk's City Directory
1957	James Bowers (contr.)	Polk's City Directory
1952	Vacant	Polk's City Directory

FINDINGS

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1945	Residential	Polk's City Directory
1939	Residential	Polk's City Directory
1931	Residential	Polk's City Directory
1927	Residential	Polk's City Directory
1922	Residential	Polk's City Directory

488 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1922	Residential	Polk's City Directory

491 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1962	Residential	Polk's City Directory
1957	Residential	Polk's City Directory

495 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1952	Residential	Polk's City Directory

500 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1999	S. Oakland Indstrs.	Bresser's Criss-Cross Directory
1994	ARS	Bresser's Criss-Cross Directory
	S. Oakland Indstrs.	Bresser's Criss-Cross Directory
1989	S. Oakland Tmg. Ctr.	Bresser's Criss-Cross Directory
1984	S. Oakland Train. Ctr.	Bresser's Criss-Cross Directory
1979	S. Oakland Train. Ctr.	Bresser's Criss-Cross Directory
1973	Paramount Plastic	Bresser's Criss-Cross Directory

505 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	M & K Food Market	Bresser's Criss-Cross Directory
	Maynard, Inc.	Bresser's Criss-Cross Directory
2004	M & K Food Market	Bresser's Criss-Cross Directory
1999	M & K Food Market	Bresser's Criss-Cross Directory
1994	M & K Food Market	Bresser's Criss-Cross Directory
1973	Harold's Bar	Bresser's Criss-Cross Directory
1962	Harold's Bar & Grill (tavern)	Polk's City Directory
1957	Greg's Restaurant	Polk's City Directory
1952	Gregg's Restaurant	Polk's City Directory

FINDINGS

516 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	Nankin Transportation	Bresser's Criss-Cross Directory

518 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	Day Spring Landscaping	Bresser's Criss-Cross Directory

520 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1989	Cstm. Components	Bresser's Criss-Cross Directory

525 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	Fleet Carrier Corp.	Bresser's Criss-Cross Directory
1989	Fleet Carrier Corp.	Bresser's Criss-Cross Directory
1984	Fleet Carrier Corp.	Bresser's Criss-Cross Directory
1979	Fleet Carrier Corp.	Bresser's Criss-Cross Directory

526 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	Yesterday Trucking	Bresser's Criss-Cross Directory

560 South Blvd East

<u>Year</u>	<u>Uses</u>	<u>Source</u>
1994	Oakland Cab, Inc.	Bresser's Criss-Cross Directory
1989	Energy One, Inc.	Bresser's Criss-Cross Directory
	Marla's Hm. Main Cr.	Bresser's Criss-Cross Directory

FINDINGS

STREET NOT LISTED IN RESEARCH SOURCE

The following Streets were researched for this report, and the Streets were not listed in the research source.

Street Researched

Street Not Listed in Research Source

Martin Luther King Boulevard S

1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

Plainfield Ave.

1999, 1994, 1989, 1984, 1979, 1973, 1927, 1922

TARGET PROPERTY: ADDRESS NOT LISTED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not listed in the research source.

Address Researched

Address Not Listed in Research Source

Martin Luther King Boulevard S

2009, 2004, 1999, 1994

ADJOINING PROPERTY: ADDRESSES NOT LISTED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not listed in research source.

Address Researched

Address Not Listed in Research Source

455 South Blvd East

1999, 1994, 1989, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1927

472 South Blvd East

1931, 1927, 1922

473 South Blvd East

1939

491 South Blvd East

1952, 1945, 1939, 1931, 1927, 1922

495 South Blvd East

1945, 1939, 1931, 1927, 1922

500 South Blvd East

1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

505 South Blvd East

1989, 1984, 1979, 1945, 1939, 1931, 1927, 1922

516 South Blvd East

1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

518 South Blvd East

1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

520 South Blvd East

1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

525 South Blvd East

2009, 2004, 1999, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

526 South Blvd East

1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

560 South Blvd East

1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922

Topographic Maps

1309 - Centerpoint Land

Martin Luther King Boulevard S
Pontiac, MI 48341

Inquiry Number: 2649176.4

December 01, 2009

The EDR Historical Topographic Map Report

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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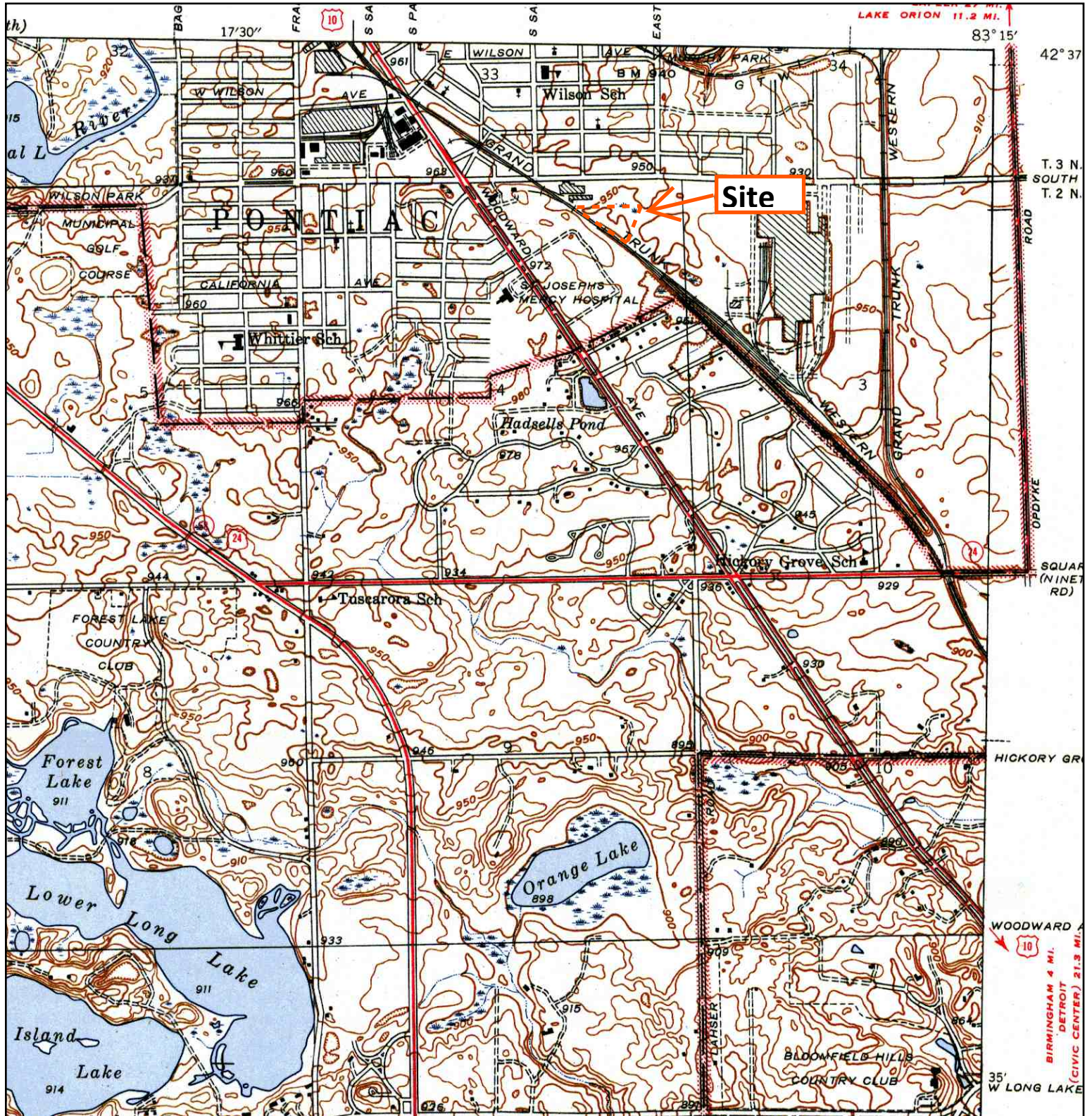
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Historical Topographic Map



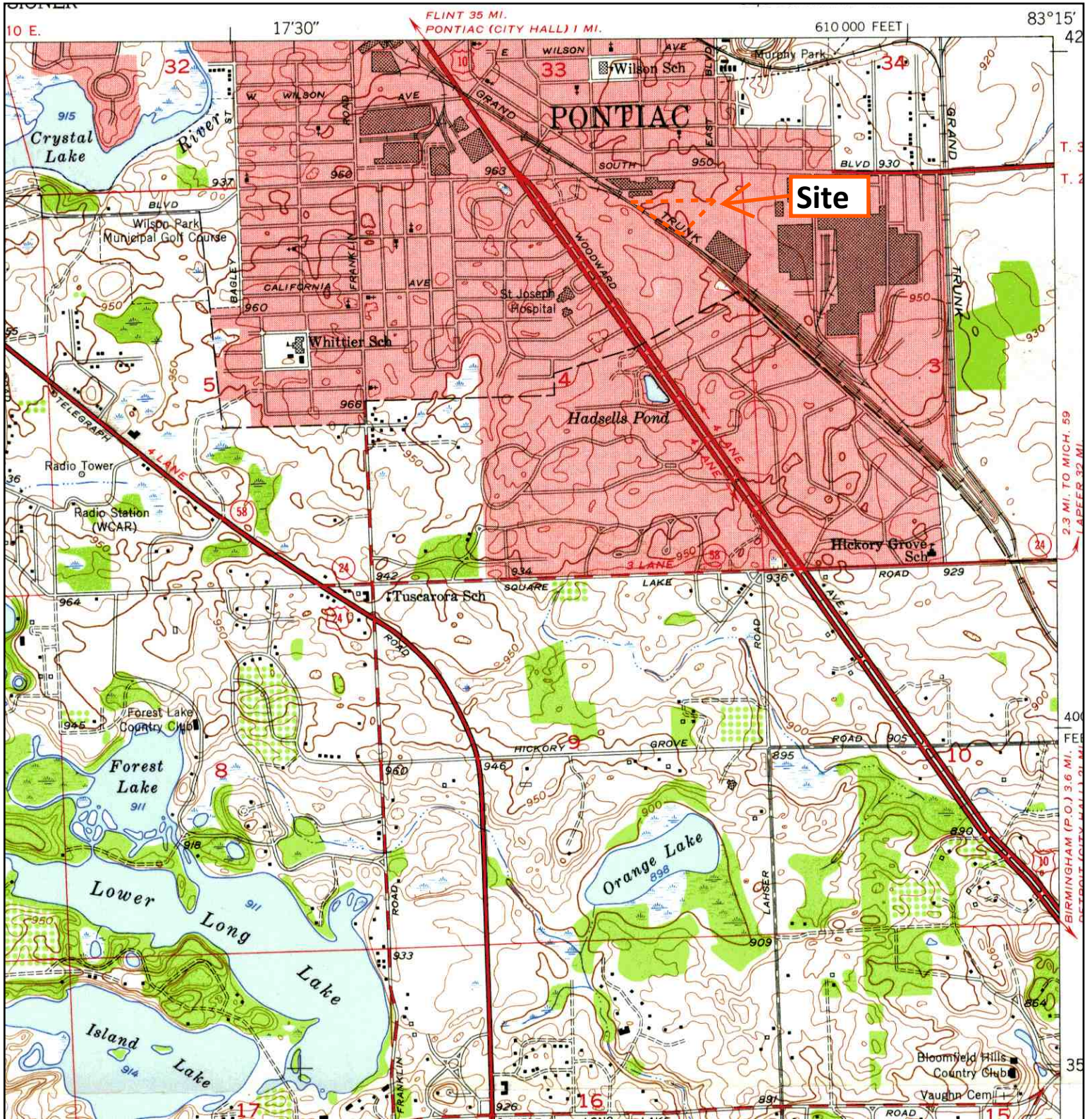
N ↑	TARGET QUAD NAME: PONTIAC MAP YEAR: 1907 SERIES: 15 SCALE: 1:62500	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
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Historical Topographic Map



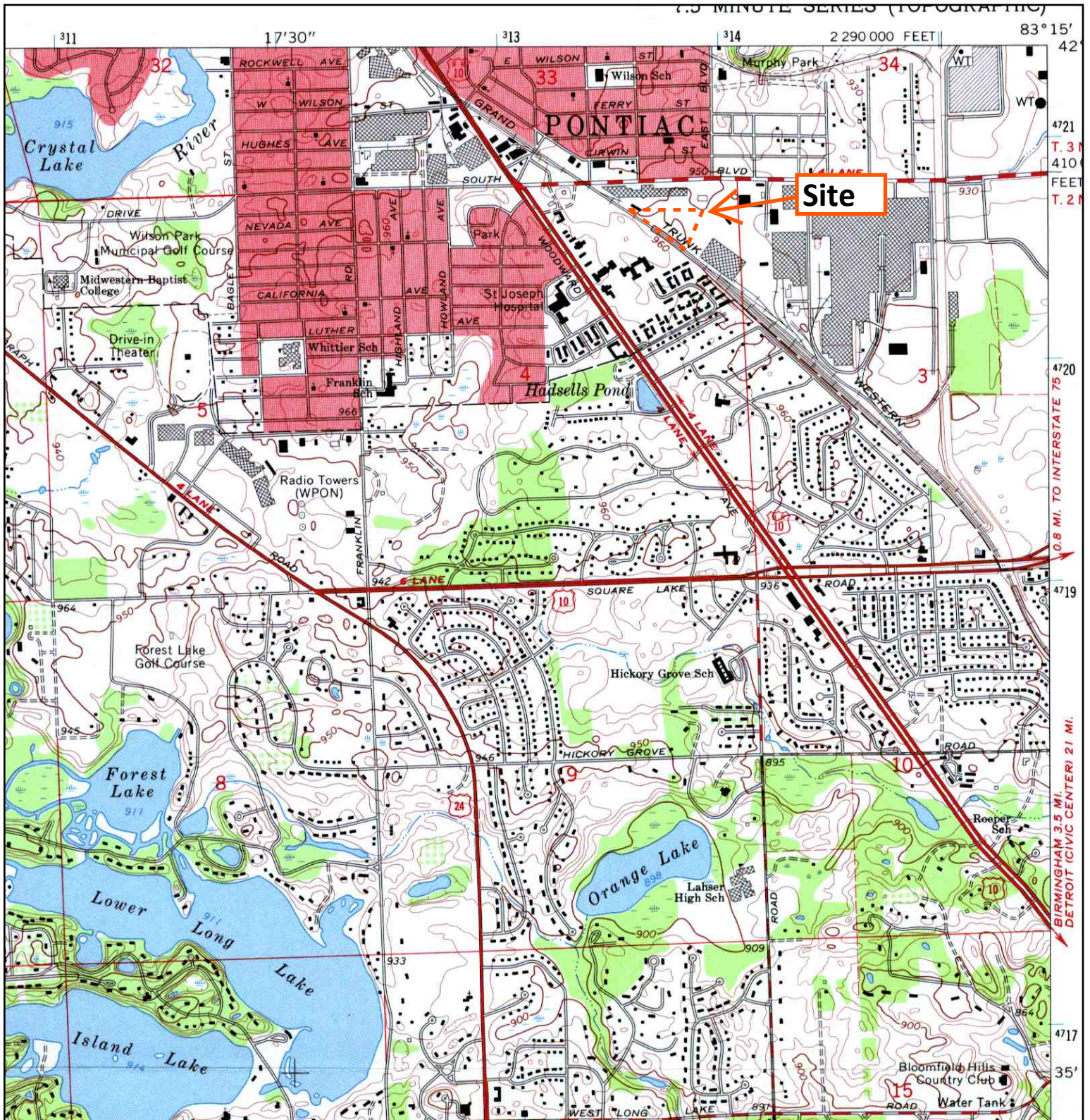
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
----------------	---	---	--

Historical Topographic Map



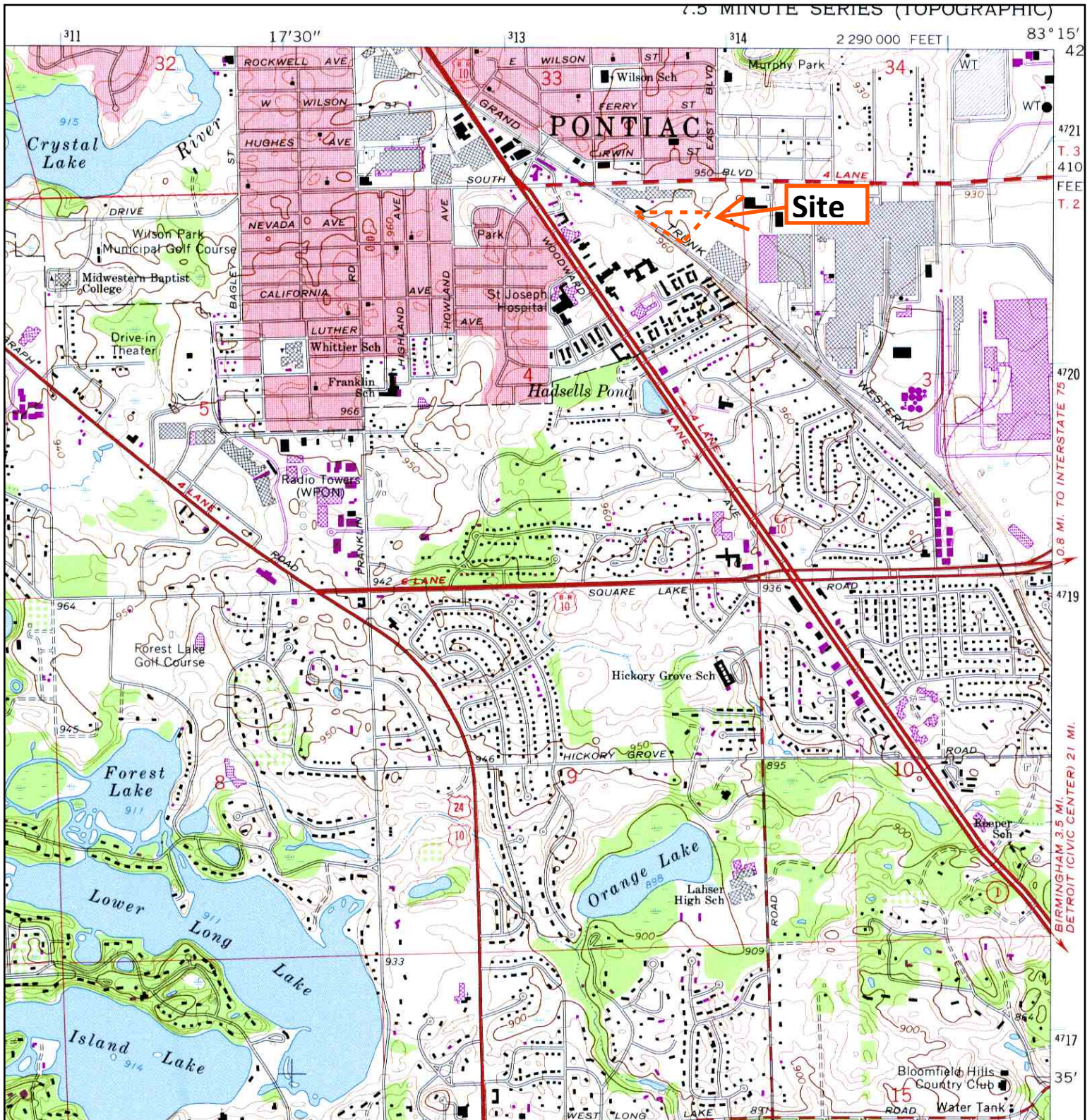
	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1952	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
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Historical Topographic Map

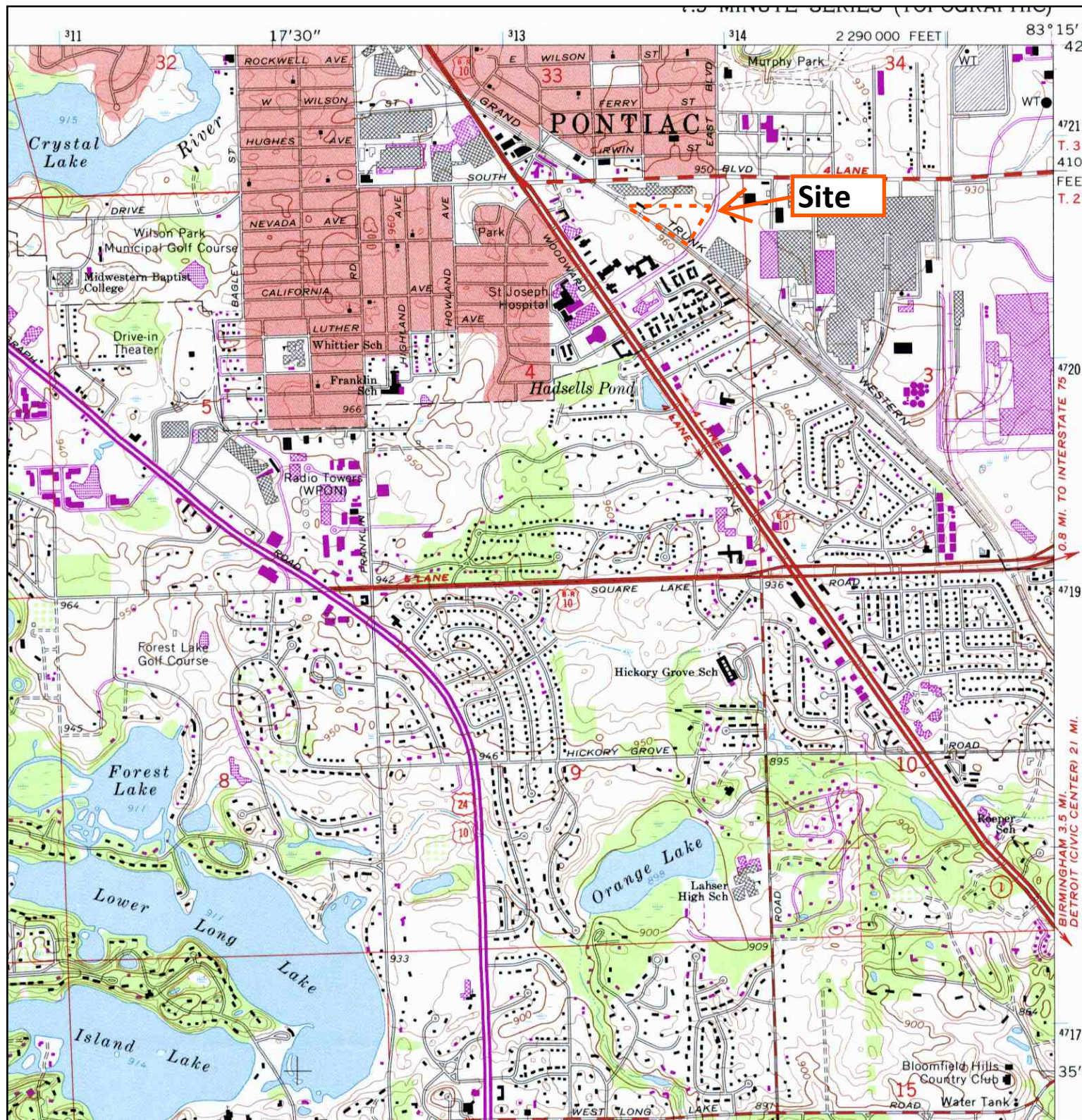


TARGET QUAD
 NAME: PONTIAC SOUTH
 MAP YEAR: 1973
 PHOTOREVISED FROM: 1968
 SERIES: 7.5
 SCALE: 1:24000

SITE NAME: 1309 - Centerpoint Land
 ADDRESS: Martin Luther King Boulevard S
 Pontiac, MI 48341
 LAT/LONG: 42.6212 / 83.2684

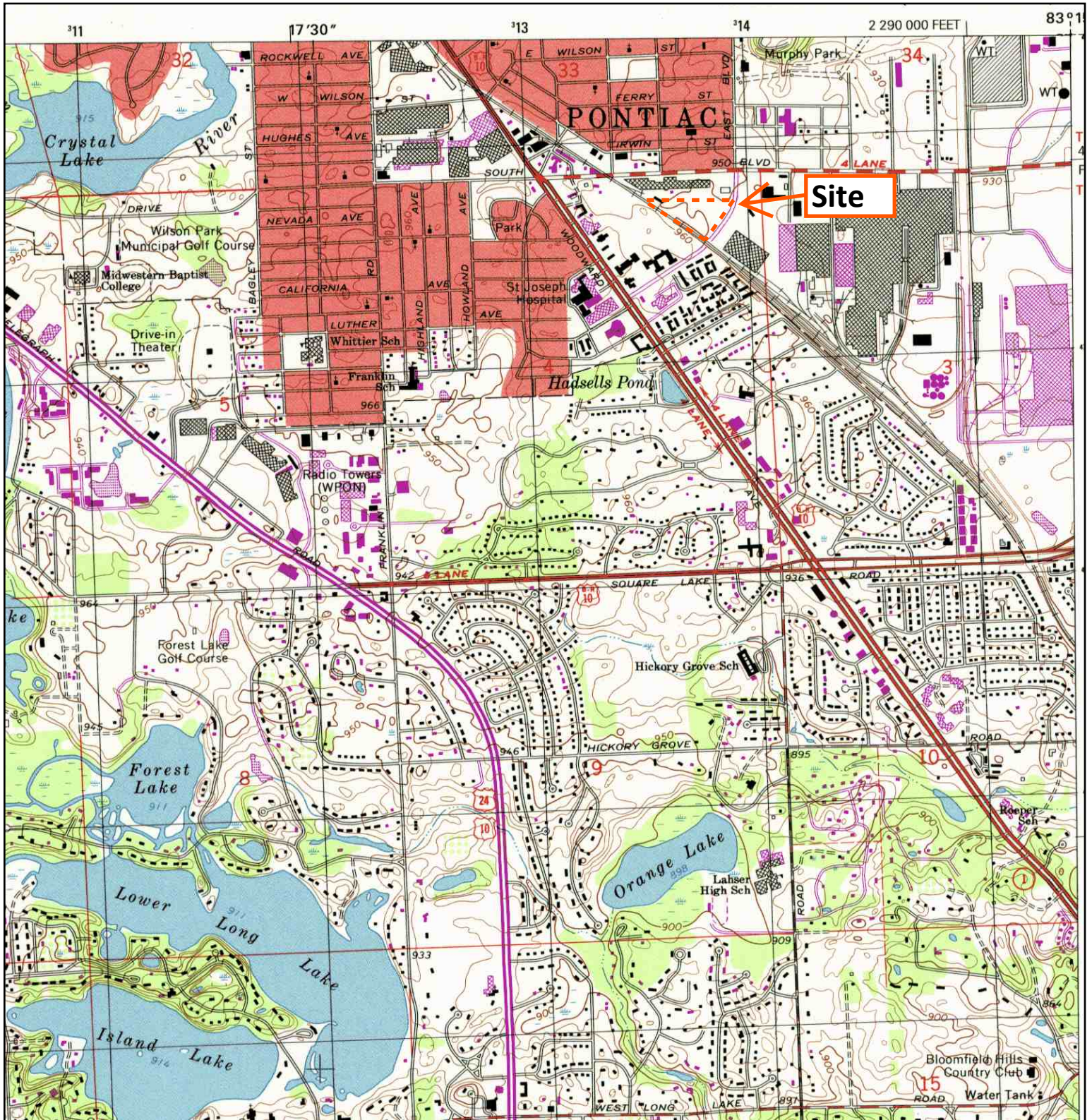
CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY#: 2649176.4
 RESEARCH DATE: 12/01/2009

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1983 PHOTOREVISED FROM: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
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Historical Topographic Map



N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
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Historical Topographic Map



N ↑	ADJOINING QUAD NAME: PONTIAC NORTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: 1309 - Centerpoint Land ADDRESS: Martin Luther King Boulevard S Pontiac, MI 48341 LAT/LONG: 42.6212 / 83.2684	CLIENT: LFR Inc CONTACT: Sean Drain INQUIRY#: 2649176.4 RESEARCH DATE: 12/01/2009
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APPENDIX C

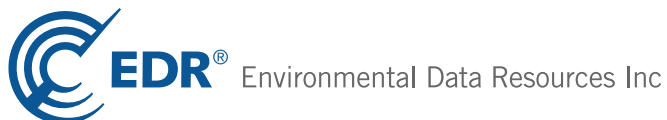
EDR Radius Map Report

1309 - Centerpoint Land

Martin Luther King Boulevard S
Pontiac, MI 48341

Inquiry Number: 2662047.1s
December 17, 2009

The EDR Radius Map™ Report with GeoCheck®



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

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

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This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

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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

MARTIN LUTHER KING BOULEVARD S
PONTIAC, MI 48341

COORDINATES

Latitude (North):	42.617940 - 42° 37' 4.6"
Longitude (West):	83.270150 - 83° 16' 12.5"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	313812.2
UTM Y (Meters):	4720673.0
Elevation:	949 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	42083-E3 PONTIAC SOUTH, MI
Most Recent Revision:	1997
North Map:	42083-F3 PONTIAC NORTH, MI
Most Recent Revision:	1997

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2005
Source:	USDA

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-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators

Federal institutional controls / engineering controls registries

US ENG CONTROLS..... Engineering Controls Sites List

Federal ERNS list

ERNS..... Emergency Response Notification System

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

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
INDIAN ODI..... Report on the Status of Open Dumps on Indian Lands

Local Lists of Hazardous waste / Contaminated Sites

US CDL..... Clandestine Drug Labs
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

EDR PROPRIETARY RECORDS

EDR Proprietary Records

Manufactured Gas Plants..... EDR Proprietary Manufactured Gas Plants

EXECUTIVE SUMMARY

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 are 2 CERC-NFRAP sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
PONTIAC MEDICAL ASSOCIATES MER	44696 WOODWARD	WSW 1/8 - 1/4 (0.203 mi.)	B7	16
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>ENE 1/4 - 1/2 (0.339 mi.)</i>	<i>19</i>	<i>42</i>

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 are 2 CORRACTS sites within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>ENE 1/4 - 1/2 (0.339 mi.)</i>	<i>19</i>	<i>42</i>
<i>GENERAL MOTORS CO NORTH AMERIC</i>	<i>200 SOUTH BOULEVARD</i>	<i>WNW 1/2 - 1 (0.791 mi.)</i>	<i>23</i>	<i>68</i>

EXECUTIVE SUMMARY

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.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	ENE 1/4 - 1/2 (0.339 mi.)	19	42

Federal RCRA generators list

RCRA-CESQG: 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.

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there are 3 RCRA-CESQG sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MEDICAL ASSOCIATES INC	44656 WOODWARD AVE	SW 1/8 - 1/4 (0.203 mi.)	8	17
AUTO CLINIC	44732 WOODWARD AVE	WSW 1/8 - 1/4 (0.206 mi.)	B9	18
INTERNATIONAL TRANSMISSION COM	44800 WOODWARD AVE	W 1/8 - 1/4 (0.227 mi.)	C12	23

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.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	ENE 1/4 - 1/2 (0.339 mi.)	19	42

EXECUTIVE SUMMARY

State- and tribal - equivalent CERCLIS

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

A review of the SHWS list, as provided by EDR, and dated 10/28/2009 has revealed that there is 1 SHWS site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
AKZO NOBEL COATINGS INC Facility Status: Evaluation in progress	120 FRANKLIN ROAD	WNW 1/2 - 1 (0.908 mi.)	24	83

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 5 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GAUKLER STORAGE CO Facility Status: Closed	400 SOUTH BLVD E	N 0 - 1/8 (0.039 mi.)	A1	7
ST JOSEPH MERCY HOSPITAL Facility Status: Closed Facility Status: Closed <i>*Additional key fields are available in the Map Findings section</i>	44405 WOODWARD AVE	SW 1/4 - 1/2 (0.285 mi.)	16	29
PONTIAC FUEL INC Facility Status: Open	45054 WOODWARD RD	WNW 1/4 - 1/2 (0.313 mi.)	18	38
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM - PONTIAC CENTERPOINT CAMPU Facility Status: Open Facility Status: Open <i>*Additional key fields are available in the Map Findings section</i>	660 S BOULEVARD EAST	ENE 1/4 - 1/2 (0.266 mi.)	15	27
PLANET PROPERTIES Facility Status: Closed	451 E WILSON AVE	N 1/4 - 1/2 (0.398 mi.)	21	66

State and tribal registered storage tank lists

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

A review of the UST list, as provided by EDR, and dated 09/01/2009 has revealed that there is 1 UST

EXECUTIVE SUMMARY

site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GAUKLER STORAGE CO	400 SOUTH BLVD E	N 0 - 1/8 (0.039 mi.)	A1	7

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: The database contains historical information and is no longer updated..

A review of the HIST LF list, as provided by EDR, and dated 03/01/1997 has revealed that there is 1 HIST LF site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANKERSON RESOURCE SYSTEMS INC	400 SOUTH BLVD E	N 0 - 1/8 (0.039 mi.)	A2	8

Local Lists of Hazardous waste / Contaminated Sites

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

A review of the DEL SHWS list, as provided by EDR, and dated 11/04/2009 has revealed that there is 1 DEL SHWS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
HOWLAND & LUTHER STREETS	HOWLAND / LUTHER	SW 1/2 - 1 (0.592 mi.)	22	68

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 are 5 RCRA-NonGen sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MULT-A-FRAME CORPORATION	366 S BLVD EAST	N 0 - 1/8 (0.039 mi.)	A3	10
FOXPOINTE APARTMENTS - DART PR	900 M L KING JR BLVD S	SW 1/8 - 1/4 (0.138 mi.)	6	14
ASSOCIATED RADIOLOGISTS OF OAK	880 WOODWARD AVE	SW 1/8 - 1/4 (0.215 mi.)	11	21
ARNOLD JEROME CADILLAC SUBARU	815 WOODWARD AVE	WSW 1/8 - 1/4 (0.229 mi.)	C13	25
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
COMPLETE AUTO TRANSIT	525 SOUTH BLVD E	NNE 0 - 1/8 (0.086 mi.)	4	12

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 5 BEA sites within approximately 0.5 miles of the target property.

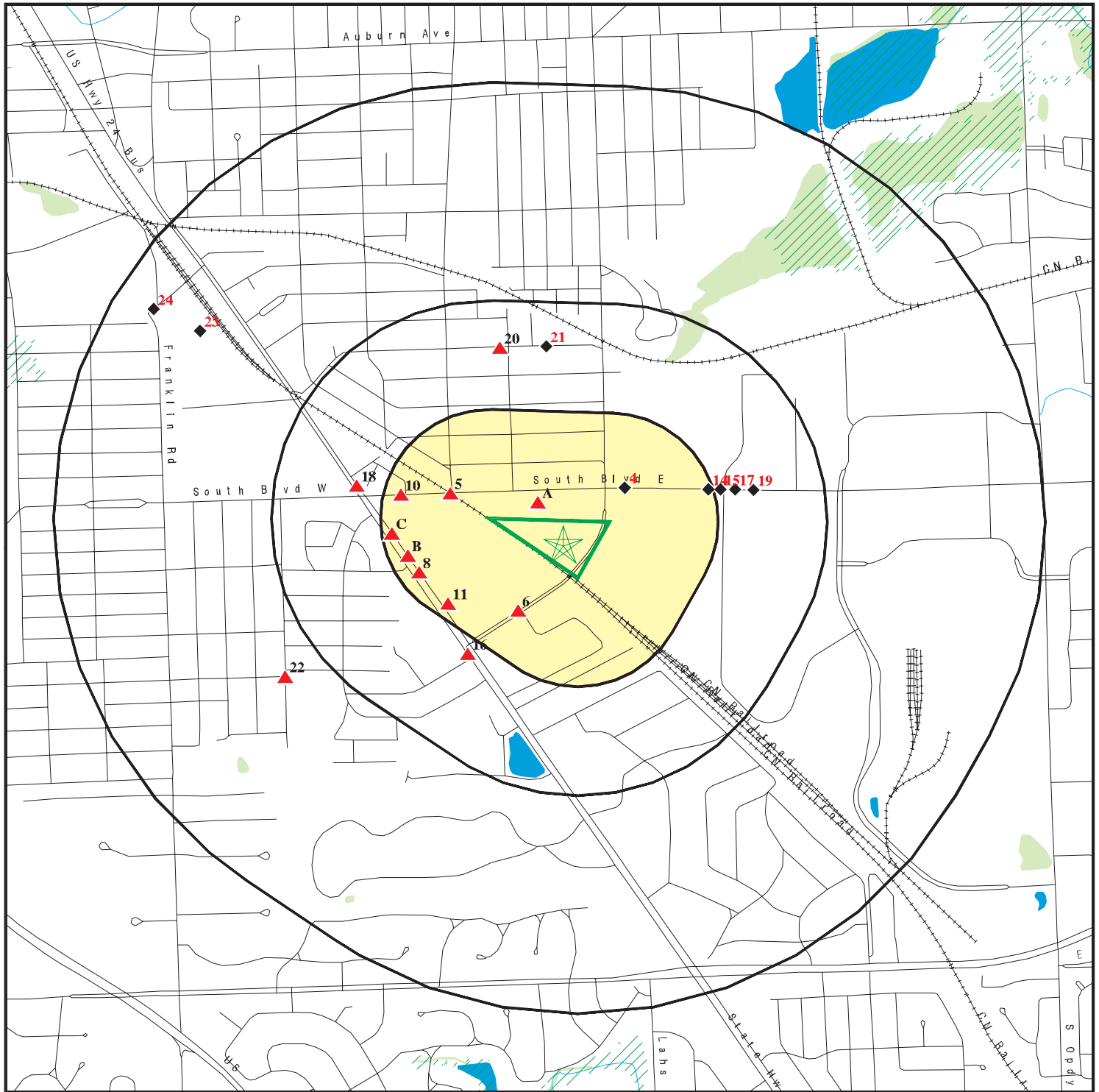
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
STOR-MOR PROPERTY	350-400 SOUTH BOULEVARD	WNW 0 - 1/8 (0.107 mi.)	5	14
HEAT TREAT SERVICES, INC.	245 SOUTH BOULEVARD	WNW 1/8 - 1/4 (0.210 mi.)	10	21
PARTS PACKAGING	391 E. WILSON AVENUE	N 1/4 - 1/2 (0.392 mi.)	20	66
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
OFFICE BUILDING	585 SOUTH BOULEVARD EAS	ENE 1/8 - 1/4 (0.240 mi.)	14	27
SOUTH BOULEVARD COMMERCIAL BUI	655 SOUTH BOULEVARD EAS	ENE 1/4 - 1/2 (0.298 mi.)	17	37

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
INDUSTRIAL SERVICES OF AMER	CERC-NFRAP, SHWS
SANICEM LF J FONS CO	SHWS
SHELL DRY WELL 1 TELEGRAPH	SHWS
GM TRUCK AND BUS PONTIAC CENTRAL	SHWS
ASPHALT SPECIALIST INC	SHWS, DEL SHWS
SUN VALLEY PROPERTIES	BROWNFIELDS
WABEEK COUNTRY CLUB MAINTENANCE BLDG	LUST
FATHER & SON FOOD MART	LUST, UST
SPEEDY MUFFLER KING	LUST, UST
WOODWARD OFFICE PLAZA	LUST, UST
BLOOMFIELD OFFICE CENTER	RCRA-NonGen
UAG MICHIGAN H1, LLC	BEA
KALTAR CORPORATION - 1ST PETITIONER	BEA
SOUTH SAGINAW STREET PARCELS	BEA
RITE AID OF MICHIGAN	BEA
DETROIT MANAGERS, LLC PROPERTY	BEA
PONTIAC CENTER, LLC	BEA
UNIT 52 CENTERPOINT BUSINESS CAMPUS	BEA
ARVIN FINANCE CORPORATION	AIRS

OVERVIEW MAP - 2662047.1s



- 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

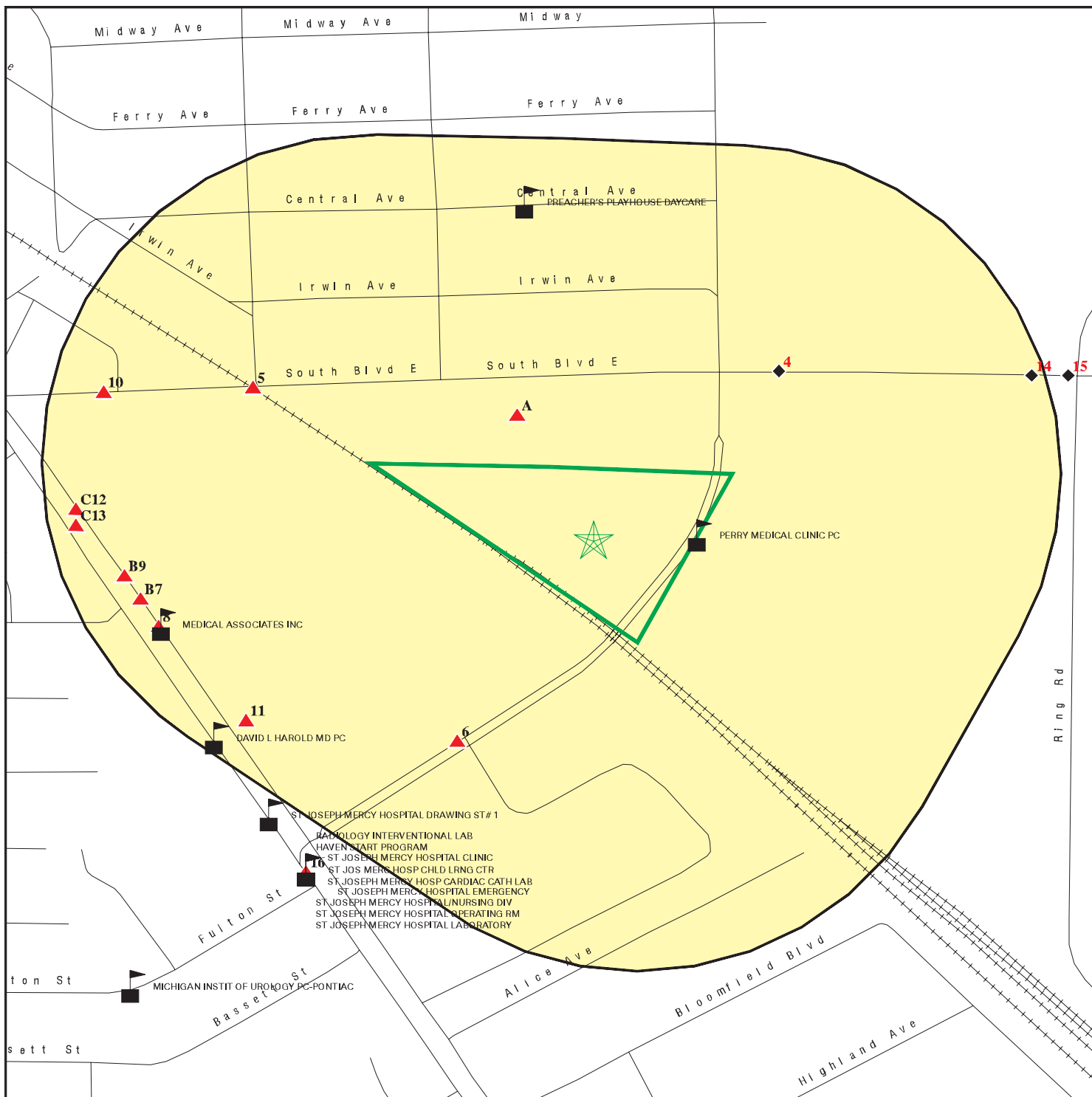
0 1/4 1/2 1 Miles

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

SITE NAME: 1309 - Centerpoint Land
 ADDRESS: Martin Luther King Boulevard S
 Pontiac MI 48341
 LAT/LONG: 42.6179 / 83.2702

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2662047.1s
 DATE: December 17, 2009 3:28 pm

DETAIL MAP - 2662047.1s



-  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

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

SITE NAME: 1309 - Centerpoint Land
 ADDRESS: Martin Luther King Boulevard S
 Pontiac MI 48341
 LAT/LONG: 42.6179 / 83.2702

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2662047.1s
 DATE: December 17, 2009 3:28 pm

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
<i>Federal NPL site list</i>								
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
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.000	0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.500	0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.500	0	1	1	NR	NR	2
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.000	0	0	1	1	NR	2
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.500	0	0	1	NR	NR	1
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.250	0	0	NR	NR	NR	0
RCRA-SQG		0.250	0	0	NR	NR	NR	0
RCRA-CESQG		0.250	0	3	NR	NR	NR	3
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	1	NR	NR	1
<i>Federal ERNS list</i>								
ERNS		TP	NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.000	0	0	0	1	NR	1
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.500	0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.500	1	0	4	NR	NR	5
INDIAN LUST		0.500	0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		0.250	1	0	NR	NR	NR	1
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	1	0	0	NR	NR	1
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	1	NR	1
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	2	3	NR	NR	NR	5
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	1	2	2	NR	NR	5
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A1
North
< 1/8
0.039 mi.
207 ft.
GAUKLER STORAGE CO
400 SOUTH BLVD E
PONTIAC, MI 48341
Site 1 of 3 in cluster A

LUST
UST
U003323147
N/A

Relative:
Higher

LUST:

Facility ID: 00014737
Source: STATE OF MICHIGAN
Owner Name: Gaukler Storage Co
Owner Address: 400 South Blvd E
Owner City,St,Zip: Pontiac, MI 48341-2962
Owner Contact: Not reported
Owner Phone: (248) 858-8000
Country: USA
District: SE Michigan District Office
Site Name: Gaukler Storage Co
Latitude: 42.6193210000
Longitude: -83.2753260000
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-0545-99
Release Date: Jun 9 1999
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Sep 27 1999

UST:

Facility ID: 00014737
Facility Type: CLOSED
Latitude: 42.6193210000
Longitude: -83.2753260000
Owner Name: Gaukler Storage Co
Owner Address: 400 South Blvd E
Owner City,St,Zip: Pontiac, MI 48341-2962
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 858-8000
Contact: GENE STANLEY
Contact Phone: (248) 858-8000
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: 10000
Install Date: Mar 6 1980
Product: Diesel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GAUKLER STORAGE CO (Continued)

U003323147

Remove Date: Apr 9 1999
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,Lined Interior
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 5000
Install Date: Mar 6 1980
Product: Gasoline
Remove Date: Jun 9 1999
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,Lined Interior
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 5000
Install Date: Mar 6 1980
Product: Gasoline
Remove Date: Jun 9 1999
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,Lined Interior
Impressed Device: No

A2
North
< 1/8
0.039 mi.
207 ft.

ANKERSON RESOURCE SYSTEMS INC
400 SOUTH BLVD E
PONTIAC, MI 48054

HIST LF S102519183
N/A

Site 2 of 3 in cluster A

Relative:
Higher

Historical LF:
Facility ID: 63000002
Status: INACTIVE
Contact: Not reported
Facility Phone: Not reported
Facility Fax: Not reported
Facility Type: Not reported
Facility Email: Not reported
Facility is Open: Not reported
Facility Type: Other
Facility Contact: B RICHARD
County Code: 63
Facility Number: 000002
Staff: Not reported
Active: No
Permit Date: Not reported

Actual:
951 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANKERSON RESOURCE SYSTEMS INC (Continued)

S102519183

Permit Number: Not reported
License Date: / /
License No: Not reported
No Waste: Not reported
Enforcement: Not reported
Exp Letters: Not reported
Operator Name: Not reported
Operator Contact: Not reported
Operator Address: Not reported
Operator City,St,Zip: Not reported
Operator Telephone: Not reported
Operator Fax: Not reported
Operator Email: Not reported
Owner Name: ANKERSON RESOURCE SYSTEMS INC.
Owner Contact: Not reported
Attention: B RICHARD ANKERSON
Owner Address: 400 SOUTH BLVD EAST
Owner City,St,Zip: PONTIAC, MI 00000
Owner Telephone: Not reported
Owner Fax: Not reported
Owner Email: Not reported
District: S.E. Michigan
Section: 04
Permit Applicant: ANKERSON RESOURCE SYSTEMS INC
Permit Applicant Contact: B RICHARD ANKERSON
Permit Applicant Address: 400 SOUTH BLVD EAST
Permit Applicant City,St,Zip: PONTIAC, MI 48054
Permit Applicant Phone: Not reported
Application Type: Private
Liner Information: Not reported
Nature of Wastes Allowed: Not reported
Township: Not reported
Section Number: Not reported
Township Section: Not reported
District: Not reported
Business Type: Not reported
County Description: Not reported
County 2 Description: Not reported
Liner Type: Not reported
Reported Date: Not reported
Amount: 0.00
Financial Instrument: Not reported
Fund Type: Not reported
Issued Date: Not reported
Expires: Not reported
Expiry: Not reported
Licensed: Not reported
Comments: Not reported
Date of Expiry of Current License: Not reported
Acreage Currently Licensed: 0.000
Acres Certified Closed: 0.000
Issue of 1st Construction Permit Date: Not reported
Acres Given in 1st Construction Permit: 0.000
Issue of 2nd Construction Permit Date: Not reported
Acres Given in 2nd Construction Permit: 0.000
Issue of 3rd Construction Permit Date: Not reported
Acres Given in 3rd Construction Permit: 0.000

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANKERSON RESOURCE SYSTEMS INC (Continued)

S102519183

Restrictive Deed Covenant Filed: Not reported
Perpetual Care Fund Type: Not reported
Perpetual Care Fund Signed: Not reported
Perpetual Care Fund Agreement Signed: Not reported
Groundwater Monitoring System Exists: Not reported
Date landfill Certified Closed: Not reported
Received Waste on or After Oct. 9, 1991: Not reported
Site Monitorable Under Definition of New Rules: Not reported

A3
North
< 1/8
0.039 mi.
207 ft.

MULT-A-FRAME CORPORATION
366 S BLVD EAST
PONTIAC, MI 48341
Site 3 of 3 in cluster A

RCRA-NonGen **1000390848**
FINDS **MID005348123**

Relative:
Higher

RCRA-NonGen:

Actual:
951 ft.

Date form received by agency: 08/10/1990
Facility name: MULT-A-FRAME CORPORATION
Facility address: 366 S BLVD EAST
PONTIAC, MI 48341
EPA ID: MID005348123
Mailing address: PO BOX 658
PONTIAC, MI 48341
Contact: ROBERT TURLEY
Contact address: 366 S BLVD EAST
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (313) 338-9271
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: MULT-A-FRAME CORPORATION
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: MULT-A-FRAME 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: 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MULT-A-FRAME CORPORATION (Continued)

1000390848

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

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:	06/08/1989
Facility name:	MULT-A-FRAME CORPORATION
Classification:	Not a generator, verified

Violation Status:	No violations found
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FINDS:

Registry ID:	110008443693
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Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MULT-A-FRAME CORPORATION (Continued)

1000390848

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.

4
NNE
< 1/8
0.086 mi.
454 ft.

COMPLETE AUTO TRANSIT
525 SOUTH BLVD E
PONTIAC, MI 48341

RCRA-NonGen **1000223294**
FINDS **MID147359111**

Relative:
Lower

RCRA-NonGen:

Date form received by agency: 09/17/1998

Facility name: COMPLETE AUTO TRANSIT

Facility address: 525 SOUTH BLVD E
PONTIAC, MI 48343

EPA ID: MID147359111

Mailing address: PO BOX 432039

PONTIAC, MI 48343

Contact: RON MATZENBACH

Contact address: 525 SOUTH BLVD E

PONTIAC, MI 48343

Contact country: Not reported

Contact telephone: (313) 339-1802

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: RYDER ACD

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: 12/18/1990

Owner/Op end date: Not reported

Owner/operator name: RYDER ACD

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: 12/18/1990

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COMPLETE AUTO TRANSIT (Continued)

1000223294

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
Used 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

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: 09/05/1986
Facility name: COMPLETE AUTO TRANSIT
Classification: Not a generator, verified

Violation Status: No violations found

FINDS:

Registry ID: 110008449116

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,

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

COMPLETE AUTO TRANSIT (Continued)

1000223294

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.

5
WNW
< 1/8
0.107 mi.
563 ft.

STOR-MOR PROPERTY
350-400 SOUTH BOULEVARD EAST
PONTIAC, MI

BEA **S108669949**
N/A

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 3608
District: Southeast MI
Date Received: 7/6/2007 12:59:00 AM
Submitter Name: Comerica Bank
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

Actual:
954 ft.

6
SW
1/8-1/4
0.138 mi.
730 ft.

FOXPOINTE APARTMENTS - DART PROPERTIES
900 M L KING JR BLVD S
PONTIAC, MI 48341

RCRA-NonGen **1001124038**
FINDS **MIR000018721**

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 10/15/1996
Facility name: FOXPOINTE APARTMENTS - DART PROPERTIES
Facility address: 900 M L KING JR BLVD S
PONTIAC, MI 48341
EPA ID: MIR000018721
Contact: BRIAN POTESTIVO
Contact address: 900 M L KING JR BLVD S
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (586) 795-4400
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
958 ft.

Owner/Operator Summary:

Owner/operator name: FOXPOINTE LIMITED PARTNERSHIP
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOXPOINTE APARTMENTS - DART PROPERTIES (Continued)

1001124038

Owner/operator name: FOXPOINTE LIMITED PARTNERSHIP
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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

FOXPOINTE APARTMENTS - DART PROPERTIES (Continued)

1001124038

Violation Status: No violations found

FINDS:

Registry ID: 110003698035

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.

**B7
WSW
1/8-1/4
0.203 mi.
1071 ft.**

**PONTIAC MEDICAL ASSOCIATES MERCURY SPILL
44696 WOODWARD
PONTIAC, MI 48341**

CERC-NFRAP

**1005440719
MIN000508263**

Site 1 of 2 in cluster B

**Relative:
Higher**

CERC-NFRAP:

Site ID: 0508263
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: Removal Only Site (No Site Assessment Work Needed)

**Actual:
971 ft.**

CERCLIS-NFRAP Site Contact Name(s):

Contact Title: EPA ORC
Contact Name: THOMAS KRUEGER
Contact Tel: (312) 886-0562

Contact Title: Civil Investigator
Contact Name: JOSEPH MALEK
Contact Tel: (312) 353-2007

Contact Title: Enforcement Specialist
Contact Name: CAROL A. ROPSKI
Contact Tel: (312) 353-7647

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: PRP EMERGENCY REMOVAL
Date Started: 10/30/2001
Date Completed: 10/31/2001
Priority Level: Cleaned up

Action: ARCHIVE SITE
Date Started: Not reported
Date Completed: 07/20/2005
Priority Level: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

8
SW
1/8-1/4
0.203 mi.
1072 ft.

MEDICAL ASSOCIATES INC
44656 WOODWARD AVE
PONTIAC, MI 48341

RCRA-CESQG

1007097086
MIK296174477

Relative:
Higher

RCRA-CESQG:

Actual:
971 ft.

Date form received by agency: 11/02/2001
Facility name: MEDICAL ASSOCIATES INC
Facility address: 44656 WOODWARD AVE
PONTIAC, MI 48341
EPA ID: MIK296174477
Contact: EUGENE ROGERS
Contact address: 44656 WOODWARD AVE
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (248) 335-5911
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 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; 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 at any time: 1 kg or less of acutely hazardous waste; or 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

Owner/Operator Summary:

Owner/operator name: EUGENE AND JEANETTE CAMPBELL ROGERS
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: 11/02/2001
Owner/Op end date: Not reported

Owner/operator name: EUGENE AND JEANETTE CAMPBELL ROGERS
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: 11/02/2001
Owner/Op end date: Not reported

Handler Activities Summary:

U.S. importer of hazardous waste: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MEDICAL ASSOCIATES INC (Continued)

1007097086

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

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

Violation Status: No violations found

B9
WSW
1/8-1/4
0.206 mi.
1086 ft.

AUTO CLINIC
44732 WOODWARD AVE
PONTIAC, MI 48341

RCRA-CESQG **1007264615**
MIK754376697

Site 2 of 2 in cluster B

Relative:
Higher

RCRA-CESQG:
Date form received by agency: 02/27/2004
Facility name: AUTO CLINIC
Facility address: 44732 WOODWARD AVE
PONTIAC, MI 48341

Actual:
971 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUTO CLINIC (Continued)

1007264615

EPA ID: MIK754376697
Contact: JEFF MORAN
Contact address: 44732 WOODWARD AVE
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (248) 333-0800
Contact email: Not reported
EPA Region: 05
Classification: Conditionally Exempt Small Quantity Generator
Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 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; 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 at any time: 1 kg or less of acutely hazardous waste; or 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

Owner/Operator Summary:

Owner/operator name: JEFF MORAN
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: 01/05/2004
Owner/Op end date: Not reported

Owner/operator name: JEFF MORAN
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: 01/05/2004
Owner/Op end date: Not reported

Owner/operator name: LARRY STONE
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: 01/05/2004
Owner/Op end date: Not reported

Owner/operator name: LARRY STONE
Owner/operator address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AUTO CLINIC (Continued)

1007264615

Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/05/2004
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
Used 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

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

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

10
WNW
1/8-1/4
0.210 mi.
1110 ft.

HEAT TREAT SERVICES, INC.
245 SOUTH BOULEVARD
PONTIAC, MI 48341

BEA S105542002
N/A

Relative:
Higher

BEA:

Secondary Address: Not reported
BEA Number: 1761
District: Southeast MI
Date Received: 7/24/2002 12:59:00 AM
Submitter Name: Heat Treat Services, Inc.
Petition Determination: No Request
Petition Disclosure: 0
Category: No Hazardous Substance(s)
Determination 20107A: No Request
Reviewer: mathewsb
Division Assigned: Environmental Response Division

Actual:
959 ft.

11
SW
1/8-1/4
0.215 mi.
1134 ft.

ASSOCIATED RADIOLOGISTS OF OAKLAND CTY
880 WOODWARD AVE
PONTIAC, MI 48341

RCRA-NonGen 1000327915
FINDS MID981194574

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 09/17/1998
Facility name: ASSOCIATED RADIOLOGISTS OF OAKLAND CTY
Facility address: 880 WOODWARD AVE
PONTIAC, MI 48341
EPA ID: MID981194574
Contact: RHONDA GUINN
Contact address: 880 WOODWARD AVE
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (313) 338-0491
Contact email: Not reported
EPA Region: 05
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Actual:
971 ft.

Owner/Operator Summary:

Owner/operator name: NAME NOT REPORTED
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: GAGLIARDI RAYMOND A
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASSOCIATED RADIOLOGISTS OF OAKLAND CTY (Continued)

1000327915

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
Used 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

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: 03/05/1986
Facility name: ASSOCIATED RADIOLOGISTS OF OAKLAND CTY
Classification: Not a generator, verified

Violation Status: No violations found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ASSOCIATED RADIOLOGISTS OF OAKLAND CTY (Continued)

1000327915

FINDS:

Registry ID: 110008450513

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.

C12
West
1/8-1/4
0.227 mi.
1196 ft.

INTERNATIONAL TRANSMISSION COMPANY LLC
44800 WOODWARD AVE
PONTIAC, MI 48341

RCRA-CESQG

1007119066
MIK677264236

Site 1 of 2 in cluster C

Relative:
Higher

RCRA-CESQG:

Date form received by agency: 12/16/2003

Facility name: INTERNATIONAL TRANSMISSION COMPANY LLC

Facility address: 44800 WOODWARD AVE

PONTIAC, MI 48341

EPA ID: MIK677264236

Mailing address: 39500 ORCHARD HILL PLACE

NOVI, MI 48375

Contact: STEVEN SCZYTOKO

Contact address: 44800 WOODWARD AVE

PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (248) 374-7100

Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 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; 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 at any time: 1 kg or less of acutely hazardous waste; or 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

Owner/Operator Summary:

Owner/operator name: INTERNATIONAL TRANSMISSION CO LLC

Owner/operator address: Not reported

Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERNATIONAL TRANSMISSION COMPANY LLC (Continued)

1007119066

Owner/Operator Type: Operator
Owner/Op start date: 03/01/2003
Owner/Op end date: Not reported

Owner/operator name: DTE ENERGY
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: 03/01/2003
Owner/Op end date: Not reported

Owner/operator name: DTE ENERGY
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: 03/01/2003
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

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

Waste type: Batteries

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

INTERNATIONAL TRANSMISSION COMPANY LLC (Continued)

1007119066

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

Violation Status: No violations found

C13
WSW
1/8-1/4
0.229 mi.
1208 ft.

ARNOLD JEROME CADILLAC SUBARU INC
815 WOODWARD AVE
PONTIAC, MI 48341
Site 2 of 2 in cluster C

RCRA-NonGen **1000334598**
FINDS **MID981534704**

Relative:
Higher

RCRA-NonGen:

Date form received by agency: 09/17/1998

Facility name: ARNOLD JEROME CADILLAC SUBARU INC

Facility address: 815 WOODWARD AVE
PONTIAC, MI 48341

EPA ID: MID981534704

Mailing address: 675 S SAGINAW
PONTIAC, MI 48341

Contact: JOSEPH SALVADOR
Contact address: 815 WOODWARD AVE
PONTIAC, MI 48341

Contact country: Not reported
Contact telephone: (313) 334-0461

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: NAME NOT REPORTED

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: PONTIAC FARM AND INDUSTRIAL

Owner/operator address: Not reported
Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARNOLD JEROME CADILLAC SUBARU INC (Continued)

1000334598

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

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: 08/18/1986
Facility name: ARNOLD JEROME CADILLAC SUBARU INC
Classification: Not a generator, verified

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ARNOLD JEROME CADILLAC SUBARU INC (Continued)

1000334598

Violation Status: No violations found

FINDS:

Registry ID: 110008450700

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.

**14
ENE
1/8-1/4
0.240 mi.
1265 ft.**

**OFFICE BUILDING
585 SOUTH BOULEVARD EAST
PONTIAC, MI**

**BEA S108986833
N/A**

**Relative:
Lower**

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

**Actual:
930 ft.**

**15
ENE
1/4-1/2
0.266 mi.
1406 ft.**

**GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING
660 S BOULEVARD EAST
PONTIAC, MI 48341**

**LUST S105213634
N/A**

**Relative:
Lower**

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

**Actual:
929 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued)

S105213634

Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued)

S105213634

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

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

**16
SW
1/4-1/2
0.285 mi.
1506 ft.**

**ST JOSEPH MERCY HOSPITAL
44405 WOODWARD AVE
PONTIAC, MI 48341**

**RCRA-SQG
FINDS
LUST
UST
AIRS**

**1000265678
MID067359240**

**Relative:
Higher**

RCRA-SQG:

Date form received by agency: 03/01/2002
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND
Facility address: 44405 WOODWARD AVE
PONTIAC, MI 48341

EPA ID: MID067359240
Contact: RODNEY LOSEY
Contact address: Not reported
Not reported

Contact country: Not reported
Contact telephone: (248) 858-3073
Contact email: Not reported

EPA Region: 05
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: TRINITY HEALTH
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: 01/01/1926
Owner/Op end date: Not reported

Owner/operator name: SISTERS OF MERCY HEALTH CARE CORP
Owner/operator address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

Owner/operator country: Not reported
US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1901
Owner/Op end date: Not reported

Owner/operator name: NAME NOT REPORTED
Owner/operator address: Not reported
Not reported
Owner/operator country: US
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: TRINITY HEALTH
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: 01/01/1926
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: Unknown
Used oil processor: Unknown
Used oil refiner: Unknown
Used oil fuel marketer to burner: Unknown
Used oil Specification marketer: Unknown
Used oil transfer facility: Unknown
Used oil transporter: Unknown
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

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

Waste type: Batteries
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Lamps
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Pesticides
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Waste type: Thermostats
Accumulated waste on-site: Unknown
Generated waste on-site: Unknown

Historical Generators:

Date form received by agency: 02/05/2002
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND
Site name: ST JOSEPH MERCY HOSPITAL
Classification: Small Quantity Generator

Date form received by agency: 10/19/2001
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND
Site name: ST JOSEPH MERCY HOSPITAL
Classification: Small Quantity Generator

Date form received by agency: 05/30/2000
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND
Classification: Large Quantity Generator

Date form received by agency: 06/25/1996
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND
Site name: ST JOSEPH MERCY HOSPITAL
Classification: Small Quantity Generator

Date form received by agency: 03/11/1986
Facility name: ST JOSEPH MERCY HOSPITAL / OAKLAND

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

Site name: ST JOSEPH MERCY HOSPITAL
Classification: Small Quantity Generator

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - General
Date violation determined: 11/14/1995
Date achieved compliance: 03/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/14/1995
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: 11/14/1995
Date achieved compliance: 03/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/14/1995
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: 11/14/1995
Date achieved compliance: 03/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/14/1995
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: 11/14/1995
Date achieved compliance: 03/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/14/1995
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

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

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 11/14/1995
Date achieved compliance: 03/13/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 11/14/1995
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: 10/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 03/13/1997
Evaluation lead agency: State

Evaluation date: 10/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 03/13/1997
Evaluation lead agency: State

Evaluation date: 10/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 03/13/1997
Evaluation lead agency: State

Evaluation date: 10/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 03/13/1997
Evaluation lead agency: State

Evaluation date: 10/25/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Records/Reporting
Date achieved compliance: 03/13/1997
Evaluation lead agency: State

FINDS:

Registry ID: 110003602003

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

LUST:

Facility ID: 00016299
Source: STATE OF MICHIGAN
Owner Name: St Joseph Mercy Oakland
Owner Address: 44405 Woodward Ave
Owner City,St,Zip: Pontiac, MI 48341-5023
Owner Contact: Not reported
Owner Phone: (248) 858-3076
Country: USA
District: SE Michigan District Office
Site Name: St Joseph Mercy-oakland
Latitude: 42.6152320000
Longitude: -83.2758290000
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-0016-03
Release Date: Jan 10 2003
Substance Released: Diesel
Release Status: Closed
Release Closed Date: May 6 2003

Leak Number: C-0516-02
Release Date: Sep 10 2002
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Feb 10 2003

Leak Number: C-0526-97
Release Date: Jul 9 1997
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Oct 7 1997

Leak Number: C-0555-02
Release Date: Sep 24 2002
Substance Released: Diesel
Release Status: Closed
Release Closed Date: Dec 30 2002

UST:

Facility ID: 00016299
Facility Type: ACTIVE
Latitude: 42.6152320000
Longitude: -83.2758290000
Owner Name: St Joseph Mercy Oakland
Owner Address: 44405 Woodward Ave
Owner City,St,Zip: Pontiac, MI 48341-5023

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 858-3076
Contact: Keith Palmbach
Contact Phone: (248) 858-3074
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: E
Tank Status: **Removed from Ground**
Capacity: 3000
Install Date: Jul 1 1997
Product: Diesel
Remove Date: Aug 15 2002
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank
Pipe Release Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled, Flexible Piping
Piping Type: Suction: No Valve At Tank
Constr Material: Double Walled, Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: G
Tank Status: **Currently In Use**
Capacity: 200
Install Date: Jun 22 2009
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Tank Tightness Testing, Interstitial Monitoring Double Walled Tank
Pipe Release Detection: Automatic Line Leak Detectors, Interstitial Monitoring Double Walled Piping
Piping Material: Bare Steel, Fiberglass Reinforced Plastic
Piping Type: Suction: Valve at Tank
Constr Material: Unknown
Impressed Device: No

Tank ID: C
Tank Status: **Removed from Ground**
Capacity: 6000
Install Date: Apr 24 1980
Product: Diesel
Remove Date: Jul 10 1997
Tank Release Detection: Groundwater Monitoring, Inventory Control, Manual Tank Gauging, Tank Tightness Testing
Pipe Release Detection: Not reported
Piping Material: Bare Steel, Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

Tank ID: B
Tank Status: **Removed from Ground**
Capacity: 2000
Install Date: Apr 25 1967
Product: Diesel
Remove Date: Dec 1 1992
Tank Release Detection: Groundwater Monitoring, Inventory Control, Manual Tank Gauging, Tank Tightness Testing
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Suction: No Valve At Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: D
Tank Status: **Currently In Use**
Capacity: 10000
Install Date: Sep 16 1992
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inter Monitoring/Second Containment, Tank Tightness Testing, Vapor Monitoring
Pipe Realease Detection: Line Tightness Testing
Piping Material: Double Walled
Piping Type: Suction: Valve at Tank
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: F
Tank Status: **Currently In Use**
Capacity: 20000
Install Date: Jun 22 2009
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Tank Tightness Testing, Automatic Tank Gauging, Interstitial Monitoring Double Walled Tank
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping
Piping Material: Fiberglass Reinforced Plastic
Piping Type: Pressure
Constr Material: Composite (Steel with Fiberglass)
Impressed Device: No

Tank ID: A
Tank Status: **Removed from Ground**
Capacity: 20000
Install Date: Apr 25 1967
Product: HEATING OIL
Remove Date: Dec 1 1992
Tank Release Detection: Automatic Tank Gauging, Groundwater Monitoring, Inter Monitoring Double Walled Tank, Inter Monitoring/Second Containment, Inventory Control, Manual Tank Gauging, Tank Tightness Testing, Vapor Monitoring
Pipe Realease Detection: Not reported
Piping Material: Bare Steel, Galvanized Steel
Piping Type: Suction: No Valve At Tank

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ST JOSEPH MERCY HOSPITAL (Continued)

1000265678

Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

AIRS:

State Registration Number: G5066
Naics Code: 622110
Contact Name: Not reported
Contact Phone: Not reported
Contact Address: Not reported
Contact City,St,Zip: Not reported
Permit Number: Not reported
Date Received: Not reported
State Registration Number: G5066
Country: USA
Application Reason: Not reported
Record Type: SI
State County FIPS: 26125
Facility Category: 01
SIC Primary: Not reported
Tribal Code: 000
EI Year: Not reported

17
ENE
1/4-1/2
0.298 mi.
1575 ft.

SOUTH BOULEVARD COMMERCIAL BUILDING
655 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

BEA S108895983
N/A

Relative:
Lower

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

Actual:
929 ft.

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

18
WNW
1/4-1/2
0.313 mi.
1655 ft.

PONTIAC FUEL INC
45054 WOODWARD RD
PONTIAC, MI 48341

LUST **U003322334**
UST **N/A**

Relative:
Higher

LUST:

Facility ID: 00011837
Source: STATE OF MICHIGAN
Owner Name: Pontiac Fuel Inc
Owner Address: 45054 Woodward Rd
Owner City,St,Zip: Pontiac, MI 48341
Owner Contact: Not reported
Owner Phone: 248-332-3549
Country: USA
District: SE Michigan District Office
Site Name: Pontiac Fuel Stop Inc
Latitude: 42.6197840000
Longitude: -83.2796380000
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-0193-03
Release Date: May 8 2003
Substance Released: Gasoline,Gasoline,Gasoline,Gasoline,Diesel,Kerosene
Release Status: Open
Release Closed Date: Not reported

UST:

Facility ID: 00011837
Facility Type: ACTIVE
Latitude: 42.6197840000
Longitude: -83.2796380000
Owner Name: Pontiac Fuel Inc
Owner Address: 45054 Woodward Rd
Owner City,St,Zip: Pontiac, MI 48341
Owner Country: USA
Owner Contact: Not reported
Owner Phone: 248-332-3549
Contact: Mike Ajami
Contact Phone: (734) 332-3549
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: 9
Tank Status: **Currently In Use**
Capacity: 10000
Install Date: May 9 2003
Product: Diesel, Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC FUEL INC (Continued)

U003322334

Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control, Manual Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled, Flexible Piping
Piping Type: Pressure
Constr Material: Double Walled, Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: E
Tank Status: **Removed from Ground**
Capacity: 6000
Install Date: Jun 14 1991
Product: Diesel
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

Tank ID: 5
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 3 1967
Product: Gasoline,UNLEADED,8
Remove Date: May 1 1988
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

Tank ID: 7
Tank Status: **Currently In Use**
Capacity: 20000
Install Date: May 9 2003
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control, Manual Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled, Flexible Piping
Piping Type: Pressure
Constr Material: Double Walled, Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: 8
Tank Status: **Currently In Use**
Capacity: 15000
Install Date: May 9 2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC FUEL INC (Continued)

U003322334

Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Automatic Tank Gauging, Inter Monitoring Double Walled Tank, Inventory Control, Manual Tank Gauging
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Double Walled, Flexible Piping
Piping Type: Pressure
Constr Material: Double Walled, Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: F
Tank Status: **Removed from Ground**
Capacity: 6000
Install Date: Jun 14 1991
Product: Kerosene
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 3 1967
Product: Gasoline,REGULAR,8
Remove Date: May 1 1988
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

Tank ID: B
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: Jun 14 1991
Product: Gasoline
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

Tank ID: C
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: Jun 14 1991

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC FUEL INC (Continued)

U003322334

Product: Gasoline
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

Tank ID: D
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Jun 14 1991
Product: Gasoline
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 3 1967
Product: Gasoline,REGULAR,8
Remove Date: May 1 1988
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

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 3 1967
Product: Gasoline,REGULAR,8
Remove Date: May 1 1988
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

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 6000
Install Date: May 3 1967
Product: Gasoline,PREMIUM,8

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PONTIAC FUEL INC (Continued)

U003322334

Remove Date: May 17 1988
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

Tank ID: 6
Tank Status: Removed from Ground
Capacity: 4000
Install Date: May 2 1961
Product: Kerosene,8
Remove Date: May 1 1988
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

Tank ID: A
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Jun 14 1991
Product: Gasoline
Remove Date: May 6 2003
Tank Release Detection: Automatic Tank Gauging, Inventory Control
Pipe Realease Detection: Automatic Line Leak Detectors
Piping Material: Fiberglass reinforced plastic
Piping Type: Pressure
Constr Material: Lined Interior
Impressed Device: No

19
ENE
1/4-1/2
0.339 mi.
1788 ft.

Relative:
Lower

Actual:
931 ft.

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

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

RCRA-TSDF
CERC-NFRAP
CORRACTS
RCRA-LQG
US INST CONTROL
TRIS
FINDS
MANIFEST

1000881766
48058GMCTR82

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Owner/Operator Summary:

Owner/operator name: PONTIAC ASSEMBLY CENTER GMVM
Owner/operator address: 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
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
Used oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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 PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

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 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
Direction
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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Database(s)

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EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

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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
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

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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: 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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

Comple. 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

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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).

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 its Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

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.

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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
TSD 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 TSD to get a copy to the DEC
Trans1 State ID: NY86424Z
Trans2 State ID: Not reported
Generator Ship Date: 941006
Trans1 Recv Date: 941006

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

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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
TSD 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
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
TSD 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

20
North
1/4-1/2
0.392 mi.
2069 ft.

PARTS PACKAGING
391 E. WILSON AVENUE
PONTIAC, MI

BEA S104910825
N/A

Relative:
Higher

BEA:
Secondary Address: Not reported
BEA Number: 286
District: Southeast MI
Date Received: 3/11/1997
Submitter Name: KALE HOLDINGS, L.L.C.
Petition Determination: Affirmed
Petition Disclosure: 1
Category: No Hazardous Substance(s)
Determination 20107A: Denied
Reviewer: berakr
Division Assigned: Environmental Response Division

Actual:
950 ft.

21
North
1/4-1/2
0.398 mi.
2099 ft.

PLANET PROPERTIES
451 E WILSON AVE
PONTIAC, MI 48341

LUST U001148204
UST N/A

Relative:
Lower

LUST:
Facility ID: 00036813
Source: STATE OF MICHIGAN
Owner Name: Planet Prop
Owner Address: 451 E Wilson Ave
Owner City,St,Zip: Pontiac, MI 48341-3337
Owner Contact: Not reported
Owner Phone: (248) 335-8330
Country: USA
District: SE Michigan District Office
Site Name: Planet Properties
Latitude: 42.6244820000
Longitude: -83.2701550000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number

Actual:
942 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PLANET PROPERTIES (Continued)

U001148204

Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-1056-94
Release Date: Oct 3 1994
Substance Released: Gasoline,Unknown
Release Status: Closed
Release Closed Date: Nov 18 1996

UST:

Facility ID: 00036813
Facility Type: CLOSED
Latitude: 42.6244820000
Longitude: -83.2701550000
Owner Name: Planet Prop
Owner Address: 451 E Wilson Ave
Owner City,St,Zip: Pontiac, MI 48341-3337
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 335-8330
Contact: KENNETH PLANET SR
Contact Phone: (313) 335-8330
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: 1000
Install Date: Not reported
Product: Gasoline
Remove Date: Nov 30 1994
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel
Impressed Device: No

Tank ID: 1
Tank Status: Removed from Ground
Capacity: 10000
Install Date: Not reported
Product: Gasoline
Remove Date: Nov 30 1994
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

PLANET PROPERTIES (Continued)

U001148204

Constr Material: Not reported
Impressed Device: No

22
SW
1/2-1
0.592 mi.
3127 ft.

HOWLAND & LUTHER STREETS
HOWLAND / LUTHER
PONTIAC, MI 48341

DEL SHWS **S105966048**
N/A

Relative:
Higher

DELETED HWS:
Facility ID: 63001014
Status: Delisted - no longer meets criteria specified in rules

Actual:
984 ft.

23
WNW
1/2-1
0.791 mi.
4176 ft.

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT
200 SOUTH BOULEVARD
PONTIAC, MI 48341

RCRA-TSDF **1000213200**
CORRACTS **MID980568836**
RCRA-SQG
FINDS
MANIFEST

Relative:
Lower

RCRA-TSDF:
Date form received by agency: 12/31/2007
Facility name: GENERAL MOTORS CORPORATION
Facility address: 200 SOUTH BLVD W
PONTIAC, MI 48341
EPA ID: MID980568836
Mailing address: 2100 S OPDYKE RD
PONTIAC, MI 48341
Contact: KEN GEMBEL
Contact address: 200 SOUTH BLVD W
PONTIAC, MI 48341
Contact country: Not reported
Contact telephone: (248) 753-5678
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

Owner/Operator Summary:

Owner/operator name: GM NORTH AMERICAN VEHICLE OPRS (NAVO)
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: 02/21/2002
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS CORPORTATION
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1909
Owner/Op end date: Not reported

Owner/operator name: GM NORTH AMERICAN VEHICLE OPRS (NAVO)
Owner/operator address: Not reported
Not reported

Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 02/21/2002
Owner/Op end date: Not reported

Owner/operator name: GENERAL MOTORS CORPORATION
Owner/operator address: Not reported
Not reported
Owner/operator country: US
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: 01/01/1909
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
Used 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

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

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: No

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

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

Historical Generators:

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: Small Quantity Generator

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

Date form received by agency: 02/24/2004
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 09/16/2002
Facility name: GENERAL MOTORS CORPORATION
Classification: Small Quantity Generator

Date form received by agency: 03/01/2002
Facility name: GENERAL MOTORS CORPORATION
Site name: GENERAL MOTORS CORP

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Classification: Large Quantity Generator

Date form received by agency: 02/21/2002

Facility name: GENERAL MOTORS CORPORATION

Classification: Small Quantity Generator

Date form received by agency: 12/17/2001

Facility name: GENERAL MOTORS CORPORATION

Classification: Small Quantity Generator

Date form received by agency: 02/28/2000

Facility name: GENERAL MOTORS CORPORATION

Site name: GENERAL MOTORS CORP

Classification: Large Quantity Generator

Date form received by agency: 02/27/1998

Facility name: GENERAL MOTORS CORPORATION

Site name: NATG - TRUCK PRODUCT CENTER - VALIDATION

Classification: Large Quantity Generator

Date form received by agency: 04/07/1997

Facility name: GENERAL MOTORS CORPORATION

Classification: Small Quantity Generator

Date form received by agency: 02/28/1996

Facility name: GENERAL MOTORS CORPORATION

Classification: Large Quantity Generator

Date form received by agency: 02/17/1994

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC, NAPT-PONTIAC WEST ASSEMBLY

Classification: Large Quantity Generator

Date form received by agency: 02/10/1992

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK AND BUS DIV PONTIAC WEST

Classification: Large Quantity Generator

Date form received by agency: 02/14/1990

Facility name: GENERAL MOTORS CORPORATION

Site name: GMC TRUCK AND BUS DIV PONTIAC WEST

Classification: Large Quantity Generator

Date form received by agency: 11/17/1980

Facility name: GENERAL MOTORS CORPORATION

Classification: Small Quantity Generator

Date form received by agency: 08/14/1980

Facility name: GENERAL MOTORS CORPORATION

Classification: Small 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKEY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.

Amount (Lbs): 1259.4

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 THESE CAUSTIC OR ACID SOLUTIONS BECOME CONTAMINATED AND MUST BE DISPOSED, THE WASTE WOULD BE A CORROSIVE HAZARDOUS WASTE.

Amount (Lbs): 1045

Waste code: D007

Waste name: CHROMIUM

Amount (Lbs): 240

Waste code: D008

Waste name: LEAD

Amount (Lbs): 30

Waste code: D009

Waste name: MERCURY

Amount (Lbs): 5

Waste code: D012

Waste name: ENDRIN

Amount (Lbs): 25

Waste code: D014

Waste name: METHOXYCHLOR

Amount (Lbs): 25

Waste code: D018

Waste name: BENZENE

Amount (Lbs): 30

Waste code: D019

Waste name: CARBON TETRACHLORIDE

Amount (Lbs): 30

Waste code: D020

Waste name: CHLORDANE

Amount (Lbs): 25

Waste code: D021

Waste name: CHLOROBENZENE

Amount (Lbs): 40

Waste code: D028

Waste name: 1,2-DICHLOROETHANE

Amount (Lbs): 10

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Waste code:	D031
Waste name:	HEPTACHLOR (AND ITS EPOXIDE).
Amount (Lbs):	25
Waste code:	D035
Waste name:	METHYL ETHYL KETONE
Amount (Lbs):	250
Waste code:	F002
Waste name:	THE FOLLOWING SPENT HALOGENATED SOLVENTS: TETRACHLOROETHYLENE, METHYLENE CHLORIDE, TRICHLOROETHYLENE, 1,1,1-TRICHLOROETHANE, CHLOROBENZENE, 1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE, ORTHO-DICHLOROBENZENE, TRICHLOROFLUOROMETHANE, AND 1,1,2-TRICHLOROETHANE; ALL SPENT SOLVENT MIXTURES/BLENDS CONTAINING, BEFORE USE, A TOTAL OF TEN PERCENT OR MORE (BY VOLUME) OF ONE OR MORE OF THE ABOVE HALOGENATED SOLVENTS OR THOSE LISTED IN F001, F004, OR F005, AND STILL BOTTOMS FROM THE RECOVERY OF THESE SPENT SOLVENTS AND SPENT SOLVENT MIXTURES.
Amount (Lbs):	30
Waste code:	P003
Waste name:	ACROLEIN
Amount (Lbs):	10
Waste code:	U002
Waste name:	ACETONE (I)
Amount (Lbs):	250
Waste code:	U037
Waste name:	BENZENE, CHLORO-
Amount (Lbs):	10
Waste code:	U061
Waste name:	BENZENE, 1,1'-(2,2,2-TRICHLOROETHYLIDENE)BIS[4-CHLORO-
Amount (Lbs):	25
Waste code:	U077
Waste name:	ETHANE, 1,2-DICHLORO-
Amount (Lbs):	10
Waste code:	U108
Waste name:	1,4-DIETHYLENEOXIDE
Amount (Lbs):	250
Waste code:	U154
Waste name:	METHANOL (I)
Amount (Lbs):	250
Waste code:	U165
Waste name:	NAPHTHALENE
Amount (Lbs):	5
Waste code:	U213
Waste name:	FURAN, TETRAHYDRO-(I)
Amount (Lbs):	10
Waste code:	U220

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Waste name: BENZENE, METHYL-
Amount (Lbs): 250

Waste code: U225
Waste name: BROMOFORM
Amount (Lbs): 30

Corrective Action Summary:

Event date: 03/30/1990
Event: RFA Completed

Event date: 05/18/1990
Event: RFA Determination Of Need For An RFI, RFI is Necessary;

Event date: 09/27/1991
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Event date: 03/31/1994
Event: CA Prioritization, Facility or area was assigned a low corrective action priority.

Facility Has Received Notices of Violations:

Regulation violated: Not reported
Area of violation: Generators - Pre-transport
Date violation determined: 09/13/2004
Date achieved compliance: 10/18/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/17/2004
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: 09/13/2004
Date achieved compliance: 10/18/2004
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/17/2004
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: 09/13/2004
Date achieved compliance: 10/18/2004

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/17/2004
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: 03/31/1997
Date achieved compliance: 05/12/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1997
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: 03/31/1997
Date achieved compliance: 05/12/1997
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 03/31/1997
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: 04/24/1995
Date achieved compliance: 11/16/1995
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/24/1995
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: 04/24/1995
Date achieved compliance: 11/16/1995
Violation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/24/1995
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: 06/08/1993
Date achieved compliance: 10/07/1993
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/08/1993
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: 09/29/1992
Date achieved compliance: 10/19/1992
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/29/1992
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: 06/12/1991
Date achieved compliance: 07/19/1991
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/12/1991
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: 08/27/1990
Date achieved compliance: 06/12/1991
Violation lead agency: State

Enforcement action: WRITTEN INFORMAL

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Enforcement action date: 09/17/1990
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 - General
Date violation determined: 08/22/1989
Date achieved compliance: 11/08/1989
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 08/23/1989
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 - 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: 06/07/1988
Date achieved compliance: 11/15/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/24/1988
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: LDR - General
Date violation determined: 06/07/1988
Date achieved compliance: 11/15/1988
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 06/24/1988

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

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: 06/07/1988
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

Evaluation Action Summary:

Evaluation date: 09/13/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 10/18/2004
Evaluation lead agency: State

Evaluation date: 09/13/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Manifest
Date achieved compliance: 10/18/2004
Evaluation lead agency: State

Evaluation date: 09/13/2004
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 10/18/2004
Evaluation lead agency: State

Evaluation date: 04/16/1998
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 09/01/1997
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 03/26/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 05/12/1997
Evaluation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Evaluation date: 03/26/1997
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - Pre-transport
Date achieved compliance: 05/12/1997
Evaluation lead agency: State

Evaluation date: 08/21/1995
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 04/03/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Generators - General
Date achieved compliance: 11/16/1995
Evaluation lead agency: State

Evaluation date: 04/03/1995
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 11/16/1995
Evaluation lead agency: State

Evaluation date: 09/30/1993
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

Evaluation date: 05/27/1993
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 10/07/1993
Evaluation lead agency: State

Evaluation date: 09/29/1992
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 10/19/1992
Evaluation lead agency: State

Evaluation date: 06/12/1991
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 07/19/1991
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

Evaluation date: 08/27/1990
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Date achieved compliance: 06/12/1991
Evaluation lead agency: State

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: 08/22/1989
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/08/1989
Evaluation lead agency: State

Evaluation date: 03/31/1989
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 05/10/1989
Evaluation lead agency: State

Evaluation date: 06/07/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: TSD - General
Date achieved compliance: 11/15/1988
Evaluation lead agency: State

Evaluation date: 06/07/1988
Evaluation: FINANCIAL RECORD REVIEW
Area of violation: TSD - Financial Requirements
Date achieved compliance: 11/17/1988
Evaluation lead agency: State

Evaluation date: 06/07/1988
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: LDR - General
Date achieved compliance: 11/15/1988
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: 11/20/1984
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE
Area of violation: Not reported
Date achieved compliance: Not reported
Evaluation lead agency: State

CORRACTS:

EPA ID: MID980568836
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 3/30/1990

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Action: CA050 - RFA Completed
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID980568836
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 3/31/1994
Action: CA075LO - CA Prioritization, Facility or area was assigned a low 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: MID980568836
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 5/1/2009
Action: CA070NO - RFA Determination Of Need For An RFI, RFI is Not Necessary
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID980568836
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 5/18/1990
Action: CA070YE - RFA Determination Of Need For An RFI, RFI is Necessary
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

EPA ID: MID980568836
EPA Region: 05
Area Name: ENTIRE FACILITY
Actual Date: 9/27/1991
Action: CA075LO - CA Prioritization, Facility or area was assigned a low corrective action priority
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

FINDS:

Registry ID: 110001298827

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

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.

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).

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.

PCS (Permit Compliance System) is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

NY MANIFEST:

EPA ID: MID980568836
Country: USA
Mailing Name: PONTIAC WEST ASSEMBLY PLANT
Mailing Contact: PONTIAC WEST ASSEMBLY PLANT
Mailing Address: 600 SOUTH SAGINAW STREET
Mailing Address 2: Not reported
Mailing City: PONTIAC
Mailing State: MI
Mailing Zip: 48053
Mailing Zip4: Not reported
Mailing Country: USA
Mailing Phone: 313-456-3283

Document ID: NYB9555993
Manifest Status: Not reported
Trans1 State ID: OHD068913409
Trans2 State ID: Not reported
Generator Ship Date: 06/05/2003
Trans1 Recv Date: 06/05/2003
Trans2 Recv Date: Not reported
TSD Site Recv Date: 06/09/2003
Part A Recv Date: Not reported
Part B Recv Date: Not reported
Generator EPA ID: MID980568836
Trans1 EPA ID: NYD049836679

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GENERAL MOTORS CO NORTH AMERICAN TRUCK GROUP VALIDATION CENT (Continued)

1000213200

Trans2 EPA ID: Not reported
TSDF ID: 0629746ME
Waste Code: D006 - CADMIUM 1.0 MG/L TCLP
Quantity: 06500
Units: P - Pounds
Number of Containers: 013
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
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

24
WNW
1/2-1
0.908 mi.
4794 ft.

AKZO NOBEL COATINGS INC
120 FRANKLIN ROAD
PONTIAC, MI 48341

SHWS S107697646
AIRS N/A

Relative:
Lower

SHWS:
Facility ID: 63001092
Facility Status: Evaluation in progress
Source: Paints & Allied Products
SAM Score: 30 out o
SAM Score Date: 1/26/2004
Township: 63
Range: T3N
Section: 10
Quarter: 32
Quarter/Quarter: AD
Pollutants: null

Actual:
929 ft.

AIRS:
State Registration Number: B4145
Naics Code: Not reported
Contact Name: JOHN LINDEMANN
Contact Phone: (248) 253-2531
Contact Address: AKZO NOBEL COATINGS INC
Contact Address 2: 120 FRANKLIN ROAD
Contact City,St,Zip: PONTIAC, MI 48341
Permit Number: 184-06
Date Received: 06/26/06
State Registration Number: B4145
Country: Not reported
Application Reason: CONSOLIDATE MANF. PROCESS, SYNTHETIC MINOR OPT-OUT
Record Type: Not reported
State County FIPS: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AKZO NOBEL COATINGS INC (Continued)

S107697646

Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
EI Year:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN HILLS	1003871234	INDUSTRIAL SERVICES OF AMER	3951 JOSLYN RD	48055	CERC-NFRAP, SHWS
AUBURN HILLS & ORION	S103085480	SANICEM LF J FONS CO	4901 S LAPEER RD	48326	SHWS
BLOOMFIELD HILLS	S105966539	UAG MICHIGAN H1, LLC	1819 / 1825 SOUTH TELEGRAPH ROAD	48302	BEA
BLOOMFIELD HILLS	S103594527	SHELL DRY WELL 1 TELEGRAPH	1415 TELEGRAPH @ GOLF	48302	SHWS
BLOOMFIELD HILLS	S105551002	WABEEK COUNTRY CLUB MAINTENANCE BLDG	4400 WABEEK LAKE DR	48302	LUST
BLOOMFIELD HILLS	U003321829	FATHER & SON FOOD MART	39580 N WOODWARD	48302	LUST, UST
BLOOMFIELD HILLS	1007100714	BLOOMFIELD OFFICE CENTER	38505 NORTH WOODWARD	48302	RCRA-NonGen
PONTIAC	S104912198	KALTAR CORPORATION - 1ST PETITIONER	(ALSO REFER TO CARDINAL AUTOMOTIVE, INC.		BEA
PONTIAC	S109171488	SOUTH SAGINAW STREET PARCELS	193 / 197 SOUTH SAGINAW STREET	48342	BEA
PONTIAC	S104912001	RITE AID OF MICHIGAN	390,370-380,358-360 / 352-354 MARTIN		BEA
PONTIAC	1003834459	GM TRUCK AND BUS PONTIAC CENTRAL	660 S. BLVD. E		SHWS
PONTIAC	S108895919	DETROIT MANAGERS, LLC PROPERTY	NEC OF MARTIN LUTHER KING JR. BLVD. /	48341	BEA
PONTIAC	S108895970	PONTIAC CENTER, LLC	NEC OF MARTIN LUTHER KING JR. BLVD. /	48341	BEA
PONTIAC	S108414584	UNIT 52 CENTERPOINT BUSINESS CAMPUS	UNIT 52 CENTERPOINT BUSINESS CAMPUS		BEA
PONTIAC	S105144543	ASPHALT SPECIALIST INC	1908 WIDE TRACK DRIVE	48342	SHWS, DEL SHWS
PONTIAC	S107702343	ARVIN FINANCE CORPORATION	810 WOODWARD AVENUE	48341	AIRS
PONTIAC	U001147975	SPEEDY MUFFLER KING	810 WOODWARD AVE	48341	LUST, UST
PONTIAC	U001147877	WOODWARD OFFICE PLAZA	800 WOODWARD AVE	48341	LUST, UST
PONTIAC	S107135866	SUN VALLEY PROPERTIES	45108 WOODWARD AVENUE (FORMERLY 675 S SAGINAW ST)	48341	BROWNFIELDS

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	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	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	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	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	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	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	Source: EPA
Date Data Arrived at EDR: 08/11/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 11/23/2009
Number of Days to Update: 41	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	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 19	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	Source: EPA
Date Data Arrived at EDR: 09/22/2009	Telephone: 800-424-9346
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/16/2009
Number of Days to Update: 48	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA Region 10
Date Data Arrived at EDR: 11/12/2009	Telephone: 206-553-2857
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 34	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	Source: EPA Region 8
Date Data Arrived at EDR: 12/01/2009	Telephone: 303-312-6271
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 15	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	Source: EPA Region 6
Date Data Arrived at EDR: 11/12/2009	Telephone: 214-665-6597
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 34	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	Source: EPA Region 7
Date Data Arrived at EDR: 05/20/2009	Telephone: 913-551-7003
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 11/04/2009
Number of Days to Update: 28	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/25/2009	Telephone: 415-972-3372
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 21	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	Source: EPA Region 4
Date Data Arrived at EDR: 12/09/2009	Telephone: 404-562-8677
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 7	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	Source: EPA Region 1
Date Data Arrived at EDR: 02/19/2009	Telephone: 617-918-1313
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: EPA Region 9
Date Data Arrived at EDR: 11/20/2009	Telephone: 415-972-3368
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 26	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	Source: EPA Region 4
Date Data Arrived at EDR: 12/09/2009	Telephone: 404-562-9424
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 7	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	Source: EPA Region 5
Date Data Arrived at EDR: 11/05/2009	Telephone: 312-886-6136
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/22/2009
Number of Days to Update: 41	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	Source: EPA Region 6
Date Data Arrived at EDR: 11/12/2009	Telephone: 214-665-7591
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 34	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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/21/2009	Telephone: 517-373-4828
Date Made Active in Reports: 10/05/2009	Last EDR Contact: 12/07/2009
Number of Days to Update: 14	Next Scheduled EDR Contact: 03/22/2010
	Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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, Detroit 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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/08/2009
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 its 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 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 Transportation, 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 Transportation, 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: 09/30/2009
Next Scheduled EDR Contact: 12/28/2009
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 10/27/2009	Telephone: Varies
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 10/06/2009
Number of Days to Update: 13	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	Source: EPA
Date Data Arrived at EDR: 09/22/2009	Telephone: 703-416-0223
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 12/15/2009
Number of Days to Update: 30	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	Source: Department of Energy
Date Data Arrived at EDR: 05/07/2009	Telephone: 505-845-0011
Date Made Active in Reports: 05/08/2009	Last EDR Contact: 11/30/2009
Number of Days to Update: 1	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	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 09/18/2009	Telephone: 303-231-5959
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/08/2009
Number of Days to Update: 52	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	Source: EPA
Date Data Arrived at EDR: 04/09/2009	Telephone: 202-566-0250
Date Made Active in Reports: 06/17/2009	Last EDR Contact: 12/01/2009
Number of Days to Update: 69	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	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/07/2009
Number of Days to Update: 46	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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/27/2009	Telephone: 202-564-5088
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 09/28/2009
Number of Days to Update: 56	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	Source: EPA
Date Data Arrived at EDR: 10/21/2009	Telephone: 202-566-0500
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 10/21/2009
Number of Days to Update: 41	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	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 10/23/2009	Telephone: 301-415-7169
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 12/14/2009
Number of Days to Update: 54	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/16/2009	Telephone: 202-343-9775
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 10/16/2009
Number of Days to Update: 46	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	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (312) 353-2000
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 40	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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

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

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

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

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

1309 - CENTERPOINT LAND
MARTIN LUTHER KING BOULEVARD S
PONTIAC, MI 48341

TARGET PROPERTY COORDINATES

Latitude (North):	42.61794 - 42° 37' 4.6"
Longitude (West):	83.27015 - 83° 16' 12.5"
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	313812.2
UTM Y (Meters):	4720673.0
Elevation:	949 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	42083-E3 PONTIAC SOUTH, MI
Most Recent Revision:	1997
North Map:	42083-F3 PONTIAC NORTH, 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).

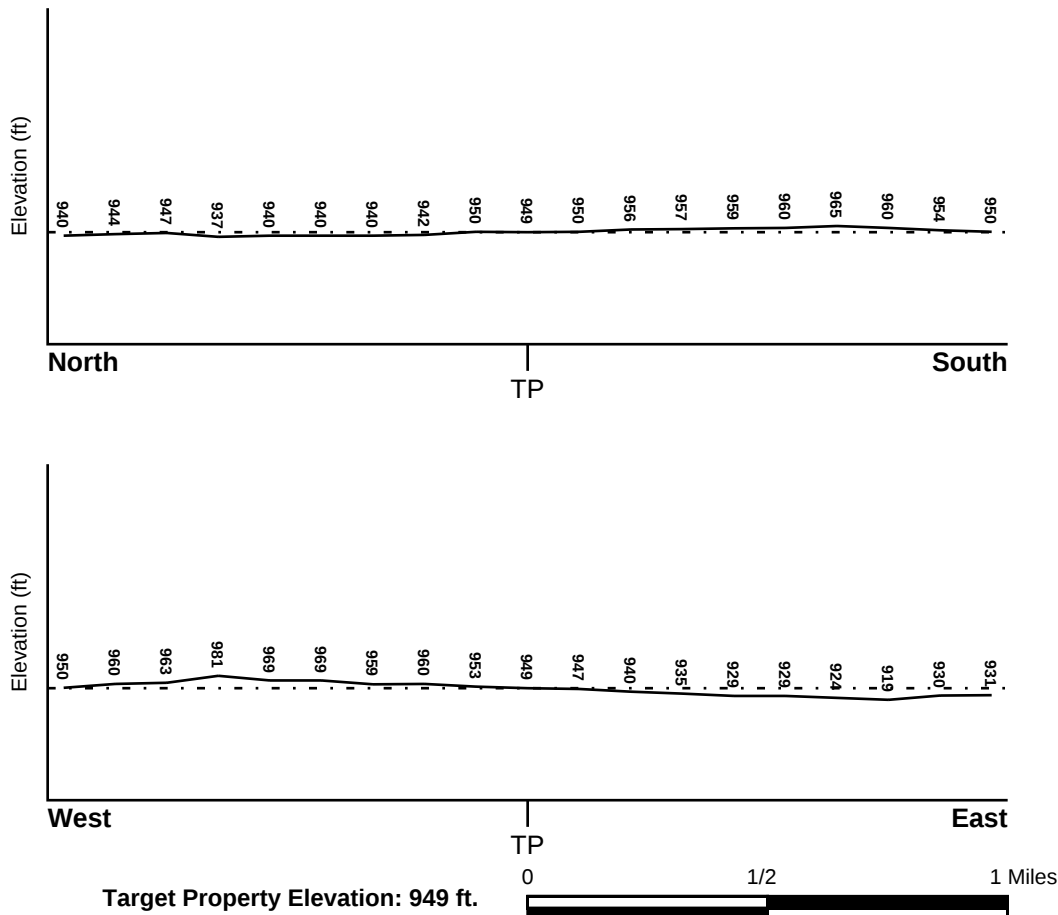
TOPOGRAPHIC INFORMATION

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 NE

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
OAKLAND, MI

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 2601770010B

Additional Panels in search area: 2601690005B
2601690004C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
PONTIAC SOUTH

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

* ©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

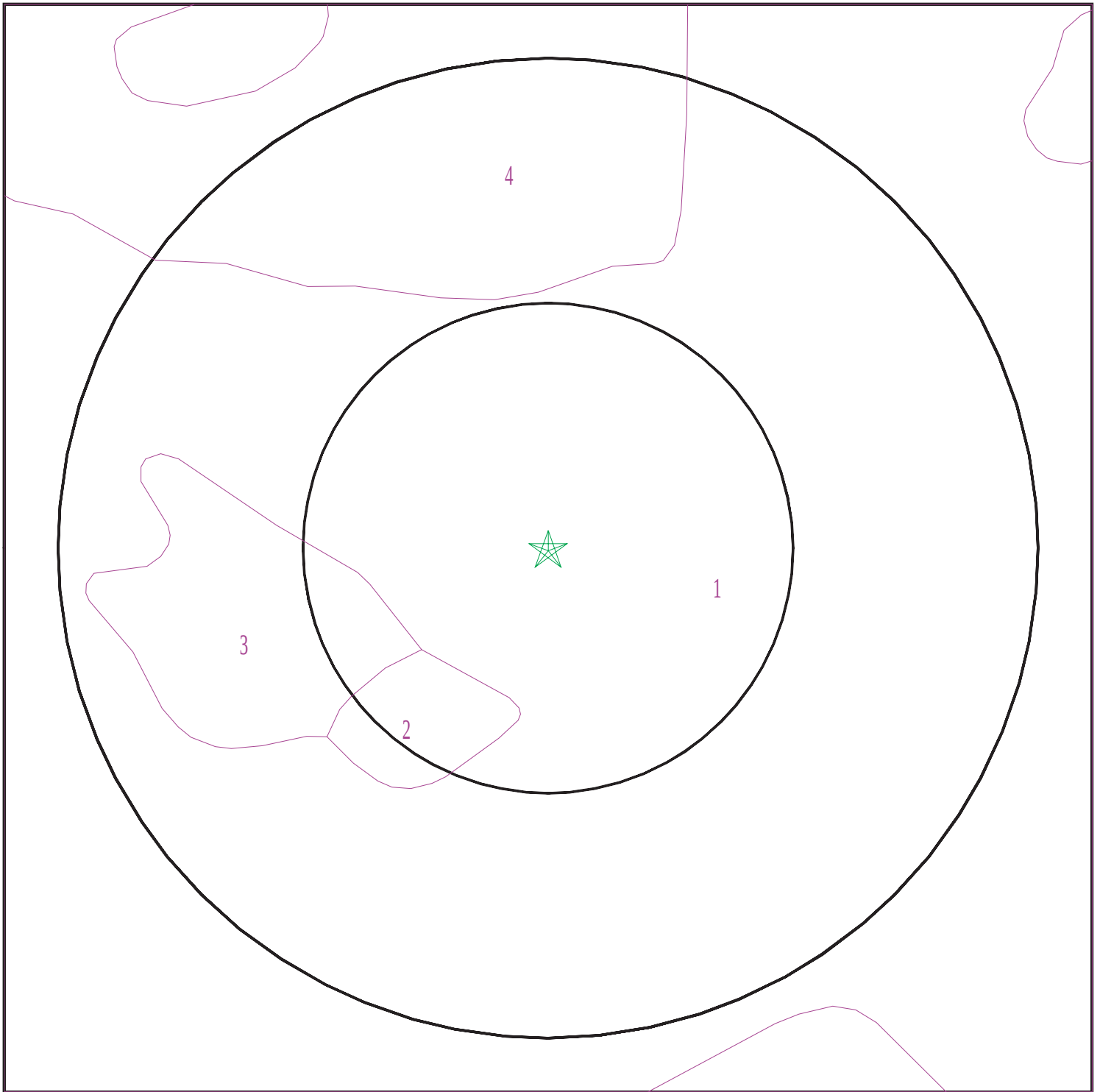
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 (<i>decoded above as Era, System & Series</i>)

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 - 2662047.1s



- ★ Target Property
- ∨ SSURGO Soil
- ∨ Water



SITE NAME: 1309 - Centerpoint Land
ADDRESS: Martin Luther King Boulevard S
Pontiac MI 48341
LAT/LONG: 42.6179 / 83.2702

CLIENT: LFR Inc
CONTACT: Sean Drain
INQUIRY #: 2662047.1s
DATE: December 17, 2009 3:28 pm

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: Urban land

Soil Surface Texture:
Hydrologic Group: Not reported

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: 2

Soil Component Name: Udorthents

Soil Surface Texture: loam

Hydrologic Group: Not reported

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:

Soil Map ID: 3

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
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: 4

Soil Component Name: Urban land

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:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MI20244861	1/4 - 1/2 Mile South
A4	MI20244879	1/4 - 1/2 Mile SSW
B5	MI20244846	1/4 - 1/2 Mile SSE
B6	MI20244848	1/4 - 1/2 Mile SSE
B7	MI20244847	1/4 - 1/2 Mile SSE
B8	MI20244858	1/4 - 1/2 Mile SSE
B9	MI20244849	1/4 - 1/2 Mile SSE
B10	MI20244850	1/4 - 1/2 Mile SE
B11	MI20244851	1/4 - 1/2 Mile SE
A12	MI20244880	1/4 - 1/2 Mile SSW
A13	MI20260415	1/4 - 1/2 Mile SSW
14	MI20244881	1/2 - 1 Mile SSW
15	MI20244852	1/2 - 1 Mile SSE
16	MI20244882	1/2 - 1 Mile SSW
C17	MI20244857	1/2 - 1 Mile SE
C18	MI20244856	1/2 - 1 Mile SE
C19	MI20244845	1/2 - 1 Mile SE
20	MI20261704	1/2 - 1 Mile SSE
21	MI20261282	1/2 - 1 Mile SSW
D22	MI20244862	1/2 - 1 Mile SSW
E23	MI20244883	1/2 - 1 Mile South
E24	MI20244884	1/2 - 1 Mile South
D25	MI20244866	1/2 - 1 Mile SSW
D26	MI20244865	1/2 - 1 Mile SSW
D27	MI20244864	1/2 - 1 Mile South
D28	MI20244867	1/2 - 1 Mile SSW
D29	MI20244868	1/2 - 1 Mile SSW
30	MI20244869	1/2 - 1 Mile SSW
F31	MI20244853	1/2 - 1 Mile SSE
F32	MI20244854	1/2 - 1 Mile SSE
F33	MI20244855	1/2 - 1 Mile SSE
F34	MI20241192	1/2 - 1 Mile SSE
G35	MI20244863	1/2 - 1 Mile South
36	MI20244870	1/2 - 1 Mile SSW
G37	MI20260650	1/2 - 1 Mile South
H38	MI20244872	1/2 - 1 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
H39	MI20244874	1/2 - 1 Mile SW
40	MI20244859	1/2 - 1 Mile SE
I41	MI20244873	1/2 - 1 Mile SW
43	MI20244860	1/2 - 1 Mile SSE
I45	MI20259540	1/2 - 1 Mile SW
I46	MI20260960	1/2 - 1 Mile SW
47	MI20244871	1/2 - 1 Mile SSW
J48	MI20244876	1/2 - 1 Mile SW
J49	MI20244878	1/2 - 1 Mile SW
J50	MI20244877	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 2662047.1s



- 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: 1309 - Centerpoint Land
 ADDRESS: Martin Luther King Boulevard S
 Pontiac MI 48341
 LAT/LONG: 42.6179 / 83.2702

CLIENT: LFR Inc
 CONTACT: Sean Drain
 INQUIRY #: 2662047.1s
 DATE: December 17, 2009 3:28 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1

South
1/4 - 1/2 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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

A4
SSW
1/4 - 1/2 Mile
Higher

MI WELLS MI20244879

Wellid:	63000003903	Import id:	63028004019
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	MARY L SCZESNY		
Well addr:	40 HADSELL		
Well depth:	122		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1929
Const date:	1991-12-27 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	108		
Screen frm:	108		
Screen to:	113		
Swl:	100		
Test depth:	122		
Test hours:	1		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61181965		
Longitude:	-83.27219313		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	23
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	24
Pct aq d:	24	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:	64	Pct pcm d:	64
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	13	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	13	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	60
Pct pcm 1:	40	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	15	Pct pcm 2:	85
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:	35
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	65	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

B5
SSE
1/4 - 1/2 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		
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B6
SSE
1/4 - 1/2 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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

**B7
SSE
1/4 - 1/2 Mile
Higher**

MI WELLS MI20244847

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	52		
Horiz Conduct:	44.23635		
Vert Conduct:	.01793		
T2:	2300.29		
D50plek:	199.26819		

B8
SSE
1/4 - 1/2 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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B9

SSE

**1/4 - 1/2 Mile
Higher**

MI WELLS

MI20244849

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

B10
SE
1/4 - 1/2 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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	54		
Horiz Conduct:	15.74081		
Vert Conduct:	.00015		
T2:	850.0037		
D50plek:	80.55906		

B11
SE
1/4 - 1/2 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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

A12

SSW

**1/4 - 1/2 Mile
Higher**

MI WELLS

MI20244880

Wellid:	63000003904	Import id:	63028004020
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	DONALD GOCELLA		
Well addr:	234 HADSELL		
Well depth:	147.3		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1979-06-20 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	145.3		
Screen frm:	142		
Screen to:	147		
Swl:	94		
Test depth:	130		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61159115		
Longitude:	-83.27270803		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	23
Elev miv:	948	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Not 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:	41	A pct aq:	68
A pct maq:	0	A pct pcm:	0
A pct cm:	2	A pct na:	29
A thickns2:	53	A pct aq2:	53
A pct maq2:	0	A pct pcm2:	23
A pct cm2:	2	A pct na2:	23
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	30
Pct maq 3:	0	Pct cm 3:	35
Pct pcm 3:	35	Pct na 3:	0
Pct aq 4:	20	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	80
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		

A13
SSW
1/4 - 1/2 Mile
Higher

MI WELLS MI20260415

Wellid:	63000021005	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	12
Owner name:	GHANS & SAHIB MALIK		
Well addr:	1130 SQUARE LAKE ROAD		
Well depth:	88		
Well type:	Irrigation		
Wssn:	0		
Well num:	Not Reported	Driller id:	2053
Const date:	2002-11-08 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	78		
Screen frm:	78		
Screen to:	88		
Swl:	17		
Test depth:	25		
Test hours:	1		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.61124372		
Longitude:	-83.2729562		
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:	28
Pct aq d:	28	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	66
Pct cm d:	66	Pct cm r:	0
Pct pcm:	6	Pct pcm d:	6
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:	28	A pct aq:	82
A pct maq:	0	A pct pcm:	18
A pct cm:	0	A pct na:	0
A thickns2:	71	A pct aq2:	35
A pct maq2:	0	A pct pcm2:	7
A pct cm2:	58	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Fine	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:	10
Pct maq 3:	0	Pct cm 3:	90
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	75	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	25
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

14
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244881

Wellid:	63000003907	Import id:	63028004023
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	STANLEY GAUFF		
Well addr:	133 HIGHLAND DR		
Well depth:	178		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1992-03-04 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	174		
Screen frm:	174		
Screen to:	178		
Swl:	92		
Test depth:	100		
Test hours:	1		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61025675		
Longitude:	-83.27278473		
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:	29
Pct aq d:	29	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	53	Pct pcm d:	53
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:	11	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	86	A pct aq2:	59
A pct maq2:	0	A pct pcm2:	41
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel & 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:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	35
Pct na 2:	65	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:	35
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	65	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	32
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	68	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:	86		
Horiz Conduct:	29.65523		
Vert Conduct:	.02456		
T2:	2550.35		
D50plek:	363.47024		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

15

SSE

1/2 - 1 Mile
Higher

MI WELLS

MI20244852

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

16
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244882

Wellid:	63000003908	Import id:	63028004024
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	JOHN G KING		
Well addr:	136 HIGHLAND DR		
Well depth:	137		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1981-01-26 00:00:00.000	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	137.5		
Screen frm:	132		
Screen to:	137		
Swl:	95		
Test depth:	123		
Test hours:	2		
Test rate:	20	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61028295		
Longitude:	-83.27422743		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	23
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	20
Pct aq d:	20	Pct aq r:	0
Pct maq:	1	Pct maq d:	1
Pct maq r:	0	Pct cm:	9
Pct cm d:	9	Pct cm r:	0
Pct pcm:	29	Pct pcm d:	29
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:	42	A pct aq:	60
A pct maq:	2	A pct pcm:	0
A pct cm:	0	A pct na:	38
A thickns2:	42	A pct aq2:	60
A pct maq2:	2	A pct pcm2:	0
A pct cm2:	0	A pct na2:	38
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Lithology Unknown
A sc lmod1:	Not Reported	A sc lmaq1:	NA
A sc lpct1:	60	A sc lith2:	Sand
A sc lmod2:	Very Fine	A sc lmaq2:	AQ
A sc lpct2:	40	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	60
Pct pcm 1:	40	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:	60	Pct na 3:	40
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	10
Pct maq 5:	10	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	80
Pct aq 6:	80	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	20	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

C17
SE
1/2 - 1 Mile
Higher

MI WELLS MI20244857

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

C18
SE
1/2 - 1 Mile
Higher

MI WELLS

MI20244856

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

**C19
SE
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		
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)	Not 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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

**20
SSE
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

21
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20261282

Wellid:	63000021959	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	YVONNE JACQUES		
Well addr:	55 W. HIGHLAND DR.		
Well depth:	104		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1926
Const date:	2002-05-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	100		
Screen frm:	100		
Screen to:	104		
Swl:	65		
Test depth:	80		
Test hours:	1		
Test rate:	20	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.6102817		
Longitude:	-83.27559769		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	977
Elev miv:	977	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	35
Pct aq d:	35	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	49
Pct cm d:	49	Pct cm r:	0
Pct pcm:	16	Pct pcm d:	16
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:	39	A pct aq2:	54
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	46	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:	60
Pct pcm 1:	40	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	85	Pct pcm 2:	15
Pct na 2:	0	Pct aq 3:	70
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	30	Pct na 3:	0
Pct aq 4:	15	Pct maq 4:	0
Pct cm 4:	85	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	75
Pct maq 5:	0	Pct cm 5:	25
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:	53.8462		
Vert Conduct:	.00022		
T2:	2100.0018		
D50plek:	137.07564		

D22
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244862

Wellid:	63000003886	Import id:	63028004002
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	MARK MARZETTI		
Well addr:	170 N BERKSHIRE		
Well depth:	159		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	397
Const date:	1988-05-31 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	130		
Screen frm:	155		
Screen to:	159		
Swl:	70		
Test depth:	120		
Test hours:	3		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60902285		
Longitude:	-83.27304613		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	37
Pct aq d:	37	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	21
Pct cm d:	21	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	6
Pct na d:	6	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	89	A pct aq:	66
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	34
A thickns2:	89	A pct aq2:	66
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	34
A hit swl:	T	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:	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:	15	Pct pcm 2:	0
Pct na 2:	85	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:	0
Pct na 4:	50	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	100
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

E23
South
1/2 - 1 Mile
Higher

MI WELLS MI20244883

Wellid:	63000003909	Import id:	63028004025
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	LYLE H SAWIN		
Well addr:	1640 S WOODWARD		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1975-07-29 00:00:00.000	Case type:	Unknown
Case dia:	0		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60878665		
Longitude:	-83.26923303		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	964	Elev dif:	16
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	4
Pct aq d:	4	Pct aq r:	0
Pct maq:	12	Pct maq d:	12
Pct maq r:	0	Pct cm:	74

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	74	Pct cm r:	0
Pct pcm:	10	Pct pcm d:	10
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:	60	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	50
Pct na 2:	0	Pct aq 3:	20
Pct maq 3:	0	Pct cm 3:	80
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:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

E24
South
1/2 - 1 Mile
Higher

MI WELLS

MI20244884

Wellid:	63000003912	Import id:	63028004028
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	LYLE H SAWIN		
Well addr:	1640 S WOODWARD		
Well depth:	113		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1975-08-05 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	114		
Screen frm:	110.5		
Screen to:	114		
Swl:	90		
Test depth:	105		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60878665		
Longitude:	-83.26923303		
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:	964	Elev dif:	16
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	3
Pct aq d:	3	Pct aq r:	0
Pct maq:	11	Pct maq d:	11
Pct maq r:	0	Pct cm:	73
Pct cm d:	73	Pct cm r:	0
Pct pcm:	13	Pct pcm d:	13
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	3	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	23	A pct aq2:	13
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	87	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	60	Pct cm 1:	40
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	25	Pct pcm 2:	75
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:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

D25
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244866

Wellid:	63000003890	Import id:	63028004006
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	TRONG H DO		
Well addr:	163 N BERKSHIRE		
Well depth:	208		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	613
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	100		
Test depth:	140		
Test hours:	0		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60903025		
Longitude:	-83.27320523		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	64
Pct aq d:	64	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:	36	Pct pcm d:	36
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:	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:	25
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	75	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	100
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	60	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	40
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

D26
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244865

Wellid:	63000003889	Import id:	63028004005
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	MRS JOHN KILLERMAN		
Well addr:	163 N BERKSHIRE		
Well depth:	208		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	127
Const date:	1974-07-17 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	201		
Screen frm:	201		
Screen to:	208		
Swl:	100		
Test depth:	130		
Test hours:	4		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60903025		
Longitude:	-83.27320523		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	64
Pct aq d:	64	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	36	Pct pcm d:	36
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	18	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	108	A pct aq2:	81
A pct maq2:	0	A pct pcm2:	19
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:	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:	25
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	75	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	100
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	60	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	40
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:	108		
Horiz Conduct:	213.89074		
Vert Conduct:	.05399		
T2:	23100.2		
D50plek:	3718.36279		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

D27

**South
1/2 - 1 Mile
Higher**

MI WELLS

MI20244864

Wellid:	63000003888	Import id:	63028004004
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	HENRY CENDROWSKI		
Well addr:	154 N BERKSHIRE		
Well depth:	151		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1990-07-05 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	146		
Screen frm:	146		
Screen to:	151		
Swl:	84		
Test depth:	100		
Test hours:	0		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60863595		
Longitude:	-83.27247513		
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:	964	Elev dif:	16
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	5
Pct aq d:	5	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	11
Pct cm d:	11	Pct cm r:	0
Pct pcm:	57	Pct pcm d:	57
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:	48	A pct aq:	17
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	83
A thickns2:	67	A pct aq2:	12
A pct maq2:	0	A pct pcm2:	28
A pct cm2:	0	A pct na2:	60
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
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:	5
Pct pcm 1:	95	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	80	Pct pcm 2:	20
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:	12
Pct na 6:	88	Pct aq 7:	28
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	72
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		

D28
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244867

Wellid:	63000003891	Import id:	63028004007
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	CLAYTON & JULIANNE SMITH		
Well addr:	191 N BERKSHIRE		
Well depth:	146		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	414
Const date:	1994-06-15 00:00:00.000	Case type:	Steel-black
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	146		
Screen frm:	142		
Screen to:	146		
Swl:	95		
Test depth:	95		
Test hours:	2		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60877025		
Longitude:	-83.27413513		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	29
Pct aq d:	29	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:	41	Pct pcm d:	41
Pct pcm r:	0	Pct na:	1
Pct na d:	1	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	36	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	51	A pct aq2:	71
A pct maq2:	0	A pct pcm2:	29
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:	75	A sc lith2:	Gravel
A sc lmod2:	Coarse	A sc lmaq2:	AQ
A sc lpct2:	25	Pct aq 1:	30
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	65	Pct na 1:	5
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	55
Pct na 2:	45	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	30
Pct na 4:	70	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	40
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	51		
Horiz Conduct:	37.2552		
Vert Conduct:	.0034		
T2:	1900.015		
D50plek:	163.01877		

D29
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244868

Wellid:	63000003892	Import id:	63028004008
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	STANLEY R WINDELER		
Well addr:	194 N BERKSHIRE		
Well depth:	137		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1580
Const date:	1993-09-08 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	133		
Screen frm:	133		
Screen to:	137		
Swl:	93		
Test depth:	0		
Test hours:	0		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60875115		
Longitude:	-83.27420643		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	61
Pct aq d:	61	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	21

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	21	Pct cm r:	0
Pct pcm:	17	Pct pcm d:	17
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:	44	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	44	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	70	Pct pcm 2:	30
Pct na 2:	0	Pct aq 3:	65
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	25	Pct na 3:	10
Pct aq 4:	65	Pct maq 4:	0
Pct cm 4:	10	Pct pcm 4:	25
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:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	44		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	4400		
D50plek:	312.18643		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

30

SSW

1/2 - 1 Mile
Higher

MI WELLS

MI20244869

Wellid:	63000003893	Import id:	63028004009
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	GERALD CORKINS		
Well addr:	213 N BERKSHIRE		
Well depth:	160		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	817
Const date:	1969-02-28 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	156		
Screen frm:	156		
Screen to:	160		
Swl:	125		
Test depth:	125		
Test hours:	3		
Test rate:	30	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60881455		
Longitude:	-83.27526413		
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:	968	Elev dif:	20
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	28
Pct aq d:	28	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	41
Pct cm d:	41	Pct cm r:	0
Pct pcm:	31	Pct pcm d:	31
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:	35	A pct aq2:	29
A pct maq2:	0	A pct pcm2:	71
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:	Wet/Moist	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	25
Pct maq 3:	0	Pct cm 3:	75
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:	100
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:	100
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	100	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:	35		
Horiz Conduct:	28.57857		
Vert Conduct:	.014		
T2:	1000.25		
D50plek:	60.91047		

**F31
SSE
1/2 - 1 Mile
Higher**

MI WELLS MI20244853

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

F32
SSE
1/2 - 1 Mile
Higher

MI WELLS MI20244854

Wellid:	63000003878	Import id:	63028003010
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	RICHARD A SANDERS		
Well addr:	1628 WINTHROP		
Well depth:	169		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	613
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	87		
Test depth:	100		
Test hours:	0		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60822205		
Longitude:	-83.26537103		
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:	10
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	76

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	76	Pct cm r:	0
Pct pcm:	14	Pct pcm d:	14
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:	35	Pct maq 2:	0
Pct cm 2:	65	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:	40
Pct pcm 7:	60	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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

F33
SSE
1/2 - 1 Mile
Higher

MI WELLS

MI20244855

Wellid:	63000003879	Import id:	63028003012
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	OTIS B FERGUSON		
Well addr:	1645 WINTHROP		
Well depth:	193		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	1968-04-01 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	193		
Screen frm:	169		
Screen to:	174		
Swl:	103		
Test depth:	115		
Test hours:	8		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60819945		
Longitude:	-83.26536963		
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:	52
Pct aq d:	52	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	22
Pct cm d:	22	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:	27	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	71	A pct aq2:	41
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	59	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Wet/Moist	A sc lmaq1:	AQ
A sc lpct1:	80	A sc lith2:	Sand & Gravel
A sc lmod2:	Wet/Moist	A sc lmaq2:	AQ
A sc lpct2:	20	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	50	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	20	Pct maq 6:	0
Pct cm 6:	80	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	12
Pct maq 7:	0	Pct cm 7:	88
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:	71		
Horiz Conduct:	21.83143		
Vert Conduct:	.00047		
T2:	1550.0312		
D50plek:	187.10718		

F34
SSE
1/2 - 1 Mile
Higher

MI WELLS MI20241192

Wellid:	63000000141	Import id:	63028003011
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	OTIS B FERGUSON		
Well addr:	1645 WINTHROP		
Well depth:	170		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	1968-03-01 00:00:00.000	Case type:	Unknown
Case dia:	6		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	170		
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:	0
Latitude:	42.60819945		
Longitude:	-83.26536963		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	21
Pct aq d:	21	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	21
Pct cm d:	21	Pct cm r:	0
Pct pcm:	18	Pct pcm d:	18
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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	25	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	35
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	48	Pct pcm 6:	52
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	32
Pct pcm 7:	68	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

G35
South
1/2 - 1 Mile
Higher

MI WELLS MI20244863

Wellid:	63000003887	Import id:	63028004003
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ROBERT & JULIE THOMPSON		
Well addr:	71 S BERKSHIRE		
Well depth:	141		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1996-07-15 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	133		
Screen frm:	133		
Screen to:	141		
Swl:	76		
Test depth:	90		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60750605		
Longitude:	-83.27046593		
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:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	36

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	36	Pct cm r:	0
Pct pcm:	31	Pct pcm d:	31
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:	39	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	65	A pct aq2:	60
A pct maq2:	0	A pct pcm2:	6
A pct cm2:	34	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:	35	Pct maq 2:	0
Pct cm 2:	45	Pct pcm 2:	20
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:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	92	Pct maq 6:	0
Pct cm 6:	8	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:	65		
Horiz Conduct:	60.00065		
Vert Conduct:	.00029		
T2:	3900.0422		
D50plek:	411.2321		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

36
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244870

Wellid:	63000003894	Import id:	63028004010
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ROBERT C WILSON		
Well addr:	236 N BERKSHIRE		
Well depth:	138		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	463
Const date:	1990-03-02 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	133		
Screen frm:	133		
Screen to:	138		
Swl:	95		
Test depth:	0		
Test hours:	1		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60877405		
Longitude:	-83.27696503		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	29
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	11
Pct aq d:	11	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	73
Pct cm d:	73	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:	37	A pct aq:	41
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	59
A thickns2:	43	A pct aq2:	35
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	14	A pct na2:	51
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
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:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	8	Pct maq 6:	0
Pct cm 6:	4	Pct pcm 6:	0
Pct na 6:	88	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		

G37
South
1/2 - 1 Mile
Higher

MI WELLS MI20260650

Wellid:	63000021264	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	GREGG SPEAKS		
Well addr:	43 S. BERKSHIRE		
Well depth:	128		
Well type:	Irrigation		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	2002-12-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	119		
Screen frm:	120		
Screen to:	128		
Swl:	70		
Test depth:	115		
Test hours:	2		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	42.60711396		
Longitude:	-83.26938223		
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:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	41
Pct aq d:	41	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	59
Pct cm d:	59	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:	35	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	58	A pct aq2:	60
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	40	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:	25
Pct maq 1:	0	Pct cm 1:	75
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	65	Pct maq 2:	0
Pct cm 2:	35	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:	35
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	58		
Horiz Conduct:	146.55176		
Vert Conduct:	.00025		
T2:	8500.0023		
D50plek:	769.9328		

H38
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20244872

Wellid:	63000003896	Import id:	63028004012
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	EVERETT POTEET		
Well addr:	275 N BERKSHIRE		
Well depth:	275		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	110
Const date:	1971-01-25 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	271		
Screen frm:	0		
Screen to:	0		
Swl:	96		
Test depth:	130		
Test hours:	6		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60821395		
Longitude:	-83.27840113		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	29
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	26	Pct pcm d:	26
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:	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:	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:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	100	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	100
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

H39
SW
1/2 - 1 Mile
Higher

MI WELLS

MI20244874

Wellid:	63000003898	Import id:	63028004014
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	MICHAEL W ROSS		
Well addr:	355 N BERKSHIRE		
Well depth:	137		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	413
Const date:	1992-07-12 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	133		
Screen frm:	133		
Screen to:	137		
Swl:	78		
Test depth:	105		
Test hours:	2		
Test rate:	60	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60862545		
Longitude:	-83.27930003		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	ELEV_DIF > 20 feet -- Abs(Elevation feet DEM_Elevation) > 20 feet		
Swl flag:	Not Reported		
Elev dem:	977	Elev dif:	29
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	7
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	26
Pct cm d:	26	Pct cm r:	0
Pct pcm:	67	Pct pcm d:	67
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:	59	A pct aq2:	17
A pct maq2:	0	A pct pcm2:	83
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:	Fine	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	75	Pct pcm 2:	25
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:	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:	59		
Horiz Conduct:	4.24559		
Vert Conduct:	.01204		
T2:	250.49		
D50plek:	27.7623		

**40
SE
1/2 - 1 Mile
Lower**

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

**I41
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244873

Wellid:	63000003897	Import id:	63028004013
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	AWTAR SINGH AJIMAL		
Well addr:	345 S BERKSHIRE		
Well depth:	144.5		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1973-09-11 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	139		
Screen frm:	139		
Screen to:	144.5		
Swl:	105		
Test depth:	1		
Test hours:	1.5		
Test rate:	20	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60795385		
Longitude:	-83.28130813		
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:	964	Elev dif:	16
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:	21

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	21	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:	40	A pct aq:	15
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	85
A thickns2:	40	A pct aq2:	15
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	85
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Lithology Unknown
A sc lmod1:	Not Reported	A sc lmaq1:	NA
A sc lpct1:	73	A sc lith2:	Lithology Unknown
A sc lmod2:	Not Reported	A sc lmaq2:	NA
A sc lpct2:	27	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:	25	Pct pcm 2:	0
Pct na 2:	75	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	25
Pct pcm 3:	0	Pct na 3:	75
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	24	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	76	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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

43
SSE
1/2 - 1 Mile
Lower

MI WELLS

MI20244860

Wellid:	63000003884	Import id:	63028003302
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #2		
Well depth:	227		
Well type:	Type I public		
Wssn:	6080		
Well num:	2	Driller id:	163
Const date:	1951-06-09 00:00:00.000	Case type:	Unknown
Case dia:	8		
Case depth:	222		
Screen frm:	216.3		
Screen to:	227		
Swl:	68		
Test depth:	42		
Test hours:	20		
Test rate:	540	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	382
Latitude:	42.60556		
Longitude:	-83.263933		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	939		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	938	Elev dif:	1
Elev miv:	939	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq d:	13	Pct aq:	13
Pct maq:	6	Pct aq r:	0
Pct maq r:	0	Pct maq d:	6
Pct cm d:	41	Pct cm:	41
Pct pcm:	40	Pct cm r:	0
Pct pcm r:	0	Pct pcm d:	40
Pct na d:	0	Pct na:	0
Pct flag:	Not Reported	Pct na r:	0
D r type:	Not Reported	Rock top:	-1
A thicknes:	30	Spc cpcity:	0
A pct maq:	0	A pct aq:	100
A pct cm:	0	A pct pcm:	0
A thickns2:	159	A pct na:	0
A pct maq2:	8	A pct aq2:	19
A pct cm2:	56	A pct pcm2:	17
A hit swl:	F	A pct na2:	0
A hit rock:	F	A hit top:	F
A sc lmod1:	Not Reported	A sc lith1:	Sand & Gravel
A sc lpct1:	100	A sc lmaq1:	AQ
A sc lmod2:	Not Reported	A sc lith2:	Not Reported
A sc lpct2:	0	A sc lmaq2:	Not Reported
Pct maq 1:	0	Pct aq 1:	0
Pct pcm 1:	100	Pct cm 1:	0
		Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	85	Pct pcm 4:	15
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:	40	Pct cm 7:	60
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	13	Pct maq 8:	6
Pct cm 8:	31	Pct pcm 8:	50
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:	9.45279		
Vert Conduct:	.00065		
T2:	1502.9937		
D50plek:	406.95241		

**I45
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20259540

Wellid:	63000019982	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	HAUSAIN		
Well addr:	100 N. BERKSHIRE		
Well depth:	163		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2269
Const date:	2000-04-13 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	153		
Screen frm:	153		
Screen to:	163		
Swl:	60		
Test depth:	163		
Test hours:	1		
Test rate:	25	Test methd:	Air
Grouted:	1	Pmp cpcity:	12
Latitude:	42.60712181		
Longitude:	-83.28082921		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	71
Pct aq d:	71	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	27
Pct cm d:	27	Pct cm r:	0
Pct pcm:	2	Pct pcm d:	2
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:	103	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	103	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	60
Pct maq 1:	0	Pct cm 1:	20
Pct pcm 1:	20	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:	100	Pct maq 4:	0
Pct cm 4:	0	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:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	100
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	103		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	10300		
D50plek:	1641.7504		

**I46
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20260960

Wellid:	63000021608	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	BRUCE LAUNIE		
Well addr:	320 N. BERKSHIRE		
Well depth:	121		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1701
Const date:	2003-04-14 00:00:00.000	Case type:	Steel
Case dia:	4		
Case depth:	117		
Screen frm:	117		
Screen to:	121		
Swl:	84		
Test depth:	100		
Test hours:	1		
Test rate:	35	Test methd:	Bailer
Grouted:	1	Pmp cpcity:	25
Latitude:	42.60740766		
Longitude:	-83.28192865		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	16
Pct aq d:	16	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	41

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	41	Pct cm r:	0
Pct pcm:	43	Pct pcm d:	43
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:	.400000005960464
A thicknes:	19	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	37	A pct aq2:	51
A pct maq2:	0	A pct pcm2:	49
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:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	50	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:	100	Pct pcm 4:	0
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:	37		
Horiz Conduct:	51.35622		
Vert Conduct:	.02055		
T2:	1900.18		
D50plek:	118.27826		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

47

SSW

1/2 - 1 Mile
Higher

MI WELLS

MI20244871

Wellid:	63000003895	Import id:	63028004011
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	GEORGE LATVO		
Well addr:	257 S BERKSHIRE		
Well depth:	126		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1966-12-17 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	122		
Screen frm:	123		
Screen to:	128		
Swl:	106		
Test depth:	116		
Test hours:	8		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60619765		
Longitude:	-83.28039693		
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:	6
Pct aq d:	6	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	64
Pct cm d:	64	Pct cm r:	0
Pct pcm:	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:	7	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	20	A pct aq2:	35
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	65	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	10	Pct pcm 4:	0
Pct na 4:	90	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	24	Pct maq 6:	0
Pct cm 6:	76	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		

**J48
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244876

Wellid:	63000003900	Import id:	63028004016
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	JUDY HUDALLA		
Well addr:	395 FREMONT		
Well depth:	111		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1584
Const date:	1985-11-02 00:00:00.000	Case type:	Unknown
Case dia:	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	0		
Screen frm:	107		
Screen to:	111		
Swl:	75		
Test depth:	85		
Test hours:	1		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60960575		
Longitude:	-83.28538983		
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:	31
Pct aq d:	31	Pct aq r:	0
Pct maq:	14	Pct maq d:	14
Pct maq r:	0	Pct cm:	47
Pct cm d:	47	Pct cm r:	0
Pct pcm:	8	Pct pcm d:	8
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:	6	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	36	A pct aq2:	28
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	72	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:	55
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	45	Pct na 1:	0
Pct aq 2:	55	Pct maq 2:	0
Pct cm 2:	45	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	15	Pct cm 3:	85
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	30	Pct maq 4:	65
Pct cm 4:	5	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	36		
Horiz Conduct:	27.77785		
Vert Conduct:	.00014		
T2:	1000.0026		
D50plek:	62.6361		

**J49
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244878

Wellid:	63000003902	Import id:	63028004018
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	JAMES L WRIGHT		
Well addr:	370 FURSE		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1977-06-16 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	120		
Screen frm:	115		
Screen to:	120		
Swl:	82		
Test depth:	112		
Test hours:	6		
Test rate:	20	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.60874735		
Longitude:	-83.28475103		
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:	27
Pct aq d:	27	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	73	Pct pcm d:	73
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:	24	A pct aq:	71
A pct maq:	0	A pct pcm:	29
A pct cm:	0	A pct na:	0
A thickns2:	38	A pct aq2:	45
A pct maq2:	0	A pct pcm2:	55
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel & 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:	60
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	40	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:	15
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	85	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:	38		
Horiz Conduct:	22.37063		
Vert Conduct:	.00258		
T2:	850.084		
D50plek:	56.69478		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

**J50
SW
1/2 - 1 Mile
Higher**

MI WELLS

MI20244877

Wellid:	63000003901	Import id:	63028004017
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	JAMES BURNS		
Well addr:	380 FURSE		
Well depth:	104		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1757
Const date:	1989-10-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	100		
Screen frm:	100		
Screen to:	104		
Swl:	45		
Test depth:	85		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60874285		
Longitude:	-83.28496873		
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:	80
Pct cm d:	80	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:	21	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	59	A pct aq2:	36
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	64	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:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	85
Pct maq 5:	0	Pct cm 5:	15
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:	59		
Horiz Conduct:	106.77973		
Vert Conduct:	.00016		
T2:	6300.0038		
D50plek:	588.93521		

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.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

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

HYDROLOGIC INFORMATION

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

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

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

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

SSURGO: Soil Survey Geographic Database

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

Telephone: 800-672-5559

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

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

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

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

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Michigan Department of Natural Resources

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

RADON

State Database: MI Radon

Source: Department of Environmental Quality

Telephone: 517-335-9551

Radon Test Results

Michigan Radon Test Results

Source: Department of Environmental Quality

Telephone: 517-335-8037

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

Area Radon Information

Source: USGS

Telephone: 703-356-4020

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

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

STREET AND ADDRESS INFORMATION

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Fax To: LFR Inc
Contact: Sean Drain
Fax : 781-356-2211
Date: 12/17/2009

Fax From: Paul Cristalli
EDR
Phone: 1-800-352-0050

EDR PUR-IQ[®] Report

"the intelligent way to conduct historical research"

for
1309 - Centerpoint Land
Martin Luther King Boulevard S
Pontiac, MI 48341
Lat./Long. 42.61794 / 83.27015
EDR Inquiry # 2662047.1s

The EDR PUR-IQ report facilitates historical research planning required to complete the Phase I ESA process. The report identifies the *likelihood* of prior use coverage by searching proprietary EDR-Prior Use Reports[®] comprising nationwide information on: city directories, fire insurance maps, aerial photographs, historical topographic maps, flood maps and National Wetland Inventory maps.

Potential for EDR Historical (Prior Use) Coverage - Coverage in the following historical information sources may be used as a guide to develop your historical research strategy:

- 1. City Directory:** Coverage exists for portions of PONTIAC, MI for 1973-1998
- 2. Fire Insurance Map:** When you order online any EDR Package or the EDR Radius Map with EDR Sanborn Map Search/Print, you receive site specific Sanborn Map coverage information at no charge.
- 3. Aerial Photograph:** Coverage exists for portions of Oakland County for the following decades: 1930s, 1960s, 1980s, 1990s, 1940s, 1950s, 1970s Shipping time 3-5 business days.
- 4. Topographic Map:** The USGS 7.5 min. quad topo sheet(s) associated with this site:

Historical:	Coverage exists for OAKLAND County		
Current:	Target Property:	TP 1997 42083-E3 Pontiac South, MI	
	Additional required for 1 Mile radius:	N 1997 42083-F3 Pontiac North, MI	

EDR's network of professional researchers, located throughout the United States, accesses the most extensive national collections of city directory, fire insurance maps, aerial photographs and historical topographic map resources available for Pontiac, MI. These collections may be located in multiple libraries throughout the country. To ensure maximum coverage, EDR will often assign researchers at these multiple locations on your behalf. Please call or fax your EDR representative to authorize a search.



EDR - HISTORICAL SOURCE(S) ORDER FORM

LFR Inc
Sean Drain
Account # 1104579

1309 - Centerpoint Land
Martin Luther King Boulevard S
Pontiac, MI 48341
OAKLAND County
Lat./Long. 42.61794 / 83.27015
EDR Inquiry # 2662047.1s

Should you wish to change or add to your order, fax this form to your EDR account executive:

Paul Cristalli
Ph: 1-800-352-0050 Fax: 1-800-231-6802

Reports

- ☐ EDR Sanborn Map® Search/Print
- ☐ EDR Fire Insurance Map Abstract
- ☐ EDR Multi-Tenant Retail Facility® Report
- ☐ EDR City Directory Abstract
- ☐ EDR Aerial Photo Decade Package
- ☐ USGS Aerial 5 Package
- ☐ USGS Aerial 3 Package
- ☐ EDR Historical Topographic Maps
- ☐ Paper Current USGS Topo (7.5 min.)
- ☐ Environmental Lien Search
- ☐ Chain of Title Search
- ☐ NJ MacRaes Industrial Directory Report
- ☐ EDR Telephone Interview

Shipping:

- ☐ Email
- ☐ Express, Next Day Delivery
- ☐ Express, Second Day Delivery
- ☐ Express, Next day Delivery
- ☐ Express, Second Day Delivery
- ☐ U.S. Mail

Customer Account
Customer Account

RUSH SERVICE IS AVAILABLE

Acct # _____
Acct # _____

Thank you

APPENDIX D

Photograph Log



Photograph #1

Description of Photograph:

View across the Site from the northwest corner. A cell phone communication tower is located in the background.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #2

Description of Photograph:

View across the Site facing north from southeast corner.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #3

Description of Photograph:

View of Site facing northeast.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #4

Description of Photograph:

View of Site facing northeast
towards Martin Luther King Blvd
South.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #5

Description of Photograph:

View of northwest portion of Site. A building formerly occupied by Gaukler Storage Company is in the background.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #6

Description of Photograph:

View of a soil mound on the southern portion of the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #7

Description of Photograph:

View of a soil mound on the northwest portion of the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #8

Description of Photograph:

View of general refuse at the entrance to the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #9

Description of Photograph:

View of discarded containers and wood debris located at the northeastern corner of the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #10

Description of Photograph:

View of propane tank located inside the substation area.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #11

Description of Photograph:

View of cell tower equipment located on the southeast portion of the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009



Photograph #12

Description of Photograph:

View of concrete piping located on the eastern portion of the Site.

Site Location:

Martin Luther King Blvd South
Pontiac, Michigan

Photograph Taken By:

Moriah Bloom

Date of Photograph:

December 30, 2009

APPENDIX E

Qualifications of Environmental Professionals

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

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