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Infrastructure, environment, buildings

March 11, 2010 BN015317.0018

Robert W. Hare, P.E., CHMM
Director, Environmental
Motors Liquidation Company
500 Renaissance Drive, Suite 1400
Detroit, Michigan 48243

Subject: Phase I Environmental Site Assessment
MLC ID 1308
Pontiac Centerpoint Campus - West
660 South Boulevard East
Pontiac, Michigan 48341

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 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

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

Phase I Environmental Site Assessment
MLC ID 1308
Pontiac Centerpoint Campus - West
660 South Boulevard East
Pontiac, Michigan 48341

March 11, 2010
ARCADIS Project No. BN011531700

Prepared for
Motors Liquidation Company
500 Renaissance Drive, Suite 1400
Detroit, Michigan 48243

Prepared by
ARCADIS U.S., Inc.
194 Forbes Road
Braintree, Massachusetts 02184
www.arcadis-us.com

ARCADIS
Infrastructure, environment, buildings

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

Report Prepared By:



for:

Moriah Bloom
Environmental Specialist II

Report Reviewed By:



Douglas M. Lindsay, PG, LSP
Senior Geologist

EXECUTIVE SUMMARY

ARCADIS U.S., Inc. (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 660 South Boulevard East, Pontiac, Oakland County, Michigan (the Site). The purpose of the Phase I ESA was 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.

The Site and the properties surrounding the Site to the east were historically part of General Motors (GM) Centerpoint Campus that included more than 60 manufacturing buildings on over 400 acres. The operations at the Centerpoint Campus began in 1927 with the production of medium and heavy duty truck and buses at the former Pontiac Central Manufacturing and Assembly Plant (PCMAP) (east of the Site). As a part of the expansion of the PCMAP, the Site was developed with Plants 21, 22, 32, 33, 34, 35, 39, 52, 59, 60, 61, 62 and 66 between 1949 and 2005. In 1991, redevelopment of the Centerpoint Campus was initiated and included the sub-parceling of the campus facilities into four major parcels:

- Pontiac Centerpoint Campus – West: The Site
- Pontiac Centerpoint Campus – Central: east adjacent property
- Pontiac Centerpoint Campus – East: located beyond the east adjacent property, east of Centerpoint Campus Drive.
- Pontiac Assembly Plant: located southeast of Pontiac Centerpoint Campus – Central, beyond Centerpoint Campus Drive.

The Site consists of approximately 79 acres of land that is improved with an approximately 580,000-square-foot industrial building that formerly housed the GM Testing facility. The facility was recently decommissioned and has been unoccupied as of November 2009. Historically, the Site building was referred to as Buildings 34 and 52. Prior to the decommissioning activities "Pre-Production" operations were conducted in Buildings 34 and 52 which included testing chambers, a series of dynamometer cells, vehicle repair garages, vehicle service testing, prototype testing, laboratories, metrology testing facilities, warehousing, and supporting administrative offices.

From the previous environmental reports and facility drawings reviewed during the assessment activities, additional buildings were previously located on the Site which included Buildings: 21, 22, 32, 33, 34, 35, 39, 59, 60, 61, 62 and 66. These buildings were decommissioned and demolished between 1993 through 2008. Paved parking areas are presently located to the north, west, and south of the main building.

The Site is surrounded by industrial and commercial properties on all sides with the exception of the southwestern section which has residential areas of Bloomfield Township located across the Grand Trunk Western Railroad easement.

ARCADIS performed a Phase I ESA of the property located at 660 South Boulevard East, Pontiac, Michigan in conformance with the scope and limitations of ASTM Practice E 1527-05. Any exceptions to, or deletions from, this practice are described in Section 9 of this report. This assessment has revealed the following RECs associated with the Site:

- The Site has historically been used as an industrial facility from 1927 through the 2009. Pontiac Centerpoint Campus – West Engineering and GMC Truck & Coach Division Pontiac East, was formerly owned and operated by General Motors Corporation (renamed Motors Liquidation Company). According to available reports, several on-going environmental investigations at certain Areas of Interest (AOIs) and Solid Waste Management Units (SWMUs) are occurring at the Site that involve both Michigan Department of Environmental Quality (MDEQ) and United States Environmental Protection Agency (U.S. EPA) oversight, including a leaking underground storage tank (LUST) investigation and a RCRA Corrective Action.
- AOI #50—DUCO Stores: Fuel Line Area completed (NFA); underground storage tank (UST) Area remediation and final assessment sampling completed. No Further Action (NFA) with Institutional Controls is anticipated. According to a conversation with the Conestoga-Rovers & Associates (CRA) Project Manager, Sylvie Eastman, on February 3, 2010, a round of groundwater monitoring was conducted in November 2009. CRA is preparing a report with two rounds of clean groundwater sample results. The November 2009 sampling event may be the last sampling event and the results could be sufficient for closure for this area.
- AOI #52—Building 35 Tank Farm: Remediation completed. NFA with Institutional Controls is anticipated. Supplemental investigation was conducted and additional year of groundwater monitoring was completed in March 2008. On February 3, 2010 the CRA Project Manager for the Site was contacted by ARCADIS. The CRA Project Manager for the Site stated that the deed restriction was completed by MLC; however, there is a six week process to complete closure for this area.
- AOI #53—Building 33 Free Product Study Area: Light non-aqueous phase liquid (LNAPL) Area 2 passive recovery completed/discontinuation approved by U.S. EPA during May 2009. LNAPL Area 1 Multiphase Extraction (MPE) and post-cleanup (closure) sampling completed. CRA submitted analytical results and a NFA request to the EPA and received an e-mail from the Case Officer approving the NFA. There is a chance that MDEQ may require additional monitoring since there is still LNAPL in the subsurface; however, since it is not a LUST site, additional monitoring may not be necessary. Long term monitoring (LTM) for 10 wells sampled semiannually is required through 2010. A NFA is anticipated with Institutional Controls for this area.

- AOI #49/SWMU #32: Former Coal Pile Storage Area: The former Coal Pile Storage Area was located south of Building 34 at the south end of the south parking lot. The former Coal Pile Storage Area was historically used to manage power house coal unloaded from railroad cars. The Coal Pile Storage Area was identified as a suspected source of polychlorinated biphenyls (PCBs) (suspected to have resulted from a shipment of contaminated coal) identified in October 12, 1977 in stormwater runoff to a storm sewer that emptied into a tributary of the Clinton River. Energy conversion at the Site from coal to natural gas was completed on August 4, 1997. As a result, the Powerhouse, together with the former Coal Pile Storage Area, underwent decommissioning and demolition activities. No exceedances of Michigan Act 451, Part 201 cleanup criteria were identified and, therefore, no further action is required at this AOI. However, because this SWMU/AOI was within GM's active operations, institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source, were proposed and implemented as a Corrective Measure.
- The east adjacent property, Pontiac Centerpoint Campus – Central, beyond Ring Road, operated as an industrial facility from 1927 through 1995. Operations at the Centerpoint Campus began in 1927 with the production of medium and heavy duty truck and buses at the former Pontiac Central Manufacturing and Assembly Plant on the northwest corner of the Campus and the Assembly Plant Facility. Subsequent operations were expanded. Portions of these operations were on the Centerpoint Campus – Central. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was environmentally decommissioned, and the area was redeveloped as the GM Truck Product Center and the Centerpoint Business Campus, which was a large scale industrial and commercial business development. Based on the distance of this property to the Site and the current status of the AOIs/SWMUs (open and under investigation), there is a potential for the Site to have been adversely impacted by activities occurring on the east adjacent property.

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1.0 INTRODUCTION

ARCADIS U.S., Inc (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 660 South Boulevard East, Pontiac, Oakland County, Michigan (the "Site"). The Site consists of approximately 70 acres of land that is improved with an approximately 589,000 square-foot multi-story industrial building that formerly housed the General Motors (GM) Testing Facility until late 2009 when the facility was decommissioned.

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 an 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 and recommendations

1.3 Significant Assumptions

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

1.4 Limitations and Exceptions

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

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

ARCADIS, therefore, does not provide any guarantees, certifications, or warranties (express or implied) that a property is free from environmental contamination. Furthermore, nothing contained in this document shall relieve any other party of its responsibility to abide by contract documents and all applicable laws, codes, regulations, or standards.

1.5 User Reliance

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

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is located at 660 South Boulevard East, Pontiac, Oakland County, Michigan. The Site is bound to the north by South Boulevard, to the west by Martin Luther King, Jr. Boulevard, to the south by a Grand Trunk Western Railroad easement, and to the east by Ring Road. The wastewater treatment plant parcel is located southeast of the Site. Based on correspondence from MLC, the wastewater treatment plant was not included in this Environmental Site Assessment and is to be included with the Pontiac Assembly Plant.

Based on information obtained from the Oakland County Commercial and Industrial Profile, the Site is identified by Parcel ID 19-03-126-003 and legal description is as follows: T2N, R10E, SEC 03 ASSESSOR'S PLAT NO 110 LOTS 1, 2, 4, & 5.

Refer to Figure 1 for a map showing the Site location.

2.2 Site and Vicinity General Characteristics

The Site is situated in a mixed industrial/commercial/residential area. The Site is located in Oakland County. The Site is surrounded by industrial and commercial properties on all sides with the exception of the southwestern section which has residential areas of Bloomfield Township located across the Grand Trunk Western Railroad easement. Pontiac Centerpoint Campus – Central is located directly east of the Site (across Ring Road).

2.3 Current Use of the Site

The plant ceased operations in November 2009, was decommissioned in December 2009, and is currently unoccupied. The building is locked and monitored 7 days a week by security personnel.

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

The Site is improved with a 589,000-square foot, multi-story industrial building (Building 34/52) which is located on the east portion of the Site. Material storage lean-tos are located on the southwest portion of the Site and the south side of Building 34/52. A large water holding tank is located on the southern portion of the Site. Paved parking areas are located to the north, west and south of Building 34/52. Based on information obtained from previous environmental reports and facility drawings reviewed during the reconnaissance activities, additional buildings were previously located on the Site which included Buildings: 21, 22, 32, 33, 34, 35, 39, 59, 60, 61, 62 and 66. These buildings were decommissioned and demolished from 2000 through 2008. The table below lists the various buildings, their operations, the approximate date of construction, and the approximate date of demolition based on historical documents.

Building Number	Operations/Usage	Approximate Date of Construction	Approximate Date of Demolition
21	Paint Storage	Between 1940 and 1949	Between 1997 and 2000
22	Boiler Room	Between 1940 and 1949	Between 1997 and 2000
32	Unknown	Between 1940 and 1949	Between 2005 and 2010
33	Engineering Building	Between 1940 and 1949	Between 2005 and 2010
34	Vehicle Test Facility (former Greyhound Coach & Assembly Building)	Between 1940 and 1949	Presently exists
35	Dynamometer Test Building and Tank Farm	1946	Between 2005 and 2010
39	Unknown	Between 1952 and 1968	Between 1997 and 2000
52	Vehicle Test Facility	Between 1968 and 1972	Presently exists

Building Number	Operations/Usage	Approximate Date of Construction	Approximate Date of Demolition
59	Unknown	Unknown	Between 1993 and 2000
60	Unknown	Unknown	Between 1993 and 2000
61	Unknown	Unknown	Between 1993 and 2000
62	Unknown	Between 1973 and 1983	Between 1997 and 2000
66	Unknown	Unknown	Between 1993 and 2000

The Site reconnaissance activities were performed on January 13, 2010. During the site visit the outside portions of the Site were covered by approximately six inches of snow and therefore ARCADIS visual observations of the property surfaces were limited.

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.

2.4.2 Sewage Disposal System

The Site is serviced by the City of Pontiac Department of Public Works and Utilities.

2.4.3 Heating/Cooling Systems

According to previous reports, DTE Energy provides electricity and Consumers Power Company supplies natural gas to the Site.

2.4.4 Solid Waste Disposal

The Site is closed and there is no new solid waste generated. There was solid waste located in various locations around the Site from when the plant was decommissioned.

2.5 Current Uses of Adjoining Properties

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

- The Site is abutted to the north by South Boulevard East. Commercial (581 Irwin Ave.) and Pontiac Centerpoint Campus – North (585 South Boulevard East) are located beyond South Boulevard East.
- The Site is abutted to the east by Ring Road. Beyond Ring Road, to the east, is Pontiac Centerpoint Campus – Central (2000 Centerpoint Parkway).
- The Site is abutted to the south by Grand Trunk Western Railroad.
- The Site is abutted to the west by Martin Luther King Jr. Boulevard. Commercial properties (714-830 Martin Luther King Jr. Blvd. S.) are located beyond Martin Luther King Jr. Boulevard.

3.0 USER-PROVIDED INFORMATION

The following items regarding the Site were requested by ARCADIS to the Client's representative. The questionnaire was sent to Mr. Bob Hare, the MLC Supervisor for the facility.

3.1 Title Records

Title records were not provided to ARCADIS for review.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Bob 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:** Yes. See Corrective Action Documentation.

3.3 Specialized Knowledge

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

- Do they 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:** Yes. Project Manager for the Corrective Action. See Corrective Action Documents.
- Are they 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? **Answer:** Yes. See Corrective Action Documentation.
- Do they know the past uses of the property? **Answer:** Yes. See Corrective Action Documentation.
- Do they know of specific chemicals that are present or once were present at the property? **Answer:** Unknown
- Do they know of spills or other chemical releases that have taken place at the property? **Answer:** Yes. See Corrective Action Documentation.
- Do they know of any environmental cleanups that have taken place at the property? **Answer:** Yes. See Corrective Action Documentation.
- Do they know if any fill materials have been imported to the Site? **Answer**: Unknown
- Do they know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** Unknown
- Do they know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the property? **Answer:** Unknown
- Do they 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 your 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:** Yes. See Corrective Action Documentation.

3.5 Valuation Reduction for Environmental Issues

According to the Oakland County Commercial and Industrial Property Profile the parcel was deleted on May 6, 1994. The Access Oakland helpline was called to see if another parcel ID exists for the Site. Oakland County stated that parcel ID 19-03-126-003 was the only ID listed for the Site address.

3.6 Owner, Property Manager, and Occupant Information

According to the Oakland County Commercial and Industrial Property Profile, the Site was owned by General Motors Corporation Truck & Bus Group.

General Motors Corporation has recently filed for Chapter 11 bankruptcy and has been renamed as Motors Liquidation Company (MLC). MLC is the current owner of the subject Site.

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

Previous environmental reports/documents for the Site included:

- RCRA Facility Report completed by Conestoga-Rovers & Associates dated October 21, 2005.
- Corrective Measures Proposal completed by Conestoga-Rovers & Associates dated April 21, 2006.
- Administrative Order on Consent in the Matter of General Motors Corporations, Pontiac Centerpoint Campus/Pontiac Assembly Plant, EPA ID#: MID005356902, USEPA Docket No. RCRA-05-2007-0009, US Environmental Protection Agency Region 5, dated May 24, 2007.

- Long Term Monitoring Plan completed by Conestoga-Rovers & Associates dated November 23, 2007.
- Draft Dyno Tank Closure Report completed by Conestoga-Rovers & Associates dated March 24, 2009.
- Post-MPE Evaluation of Potential Exposures completed by Conestoga-Rovers & Associates dated April 3, 2009.
- DUCO Stores Supplemental Work Plan completed by Conestoga-Rovers & Associates dated April 21, 2009.
- Corrective Measures Implementation Report – Building 33 completed by Conestoga-Rovers & Associates dated August 16, 2009.
- Remediation Cost Estimate Summary completed by ARCADIS dated October 27, 2009.

Environmental Findings from Previous Reports

Conestoga-Rovers & Associates (CRA), with guidance from the U.S. EPA, has performed a series of investigations at the Site and at the surrounding GM facilities located on the contiguous Centerpoint Campus from November 1998 through the present. The following table summarizes the "Areas of Interest" (AOI) and "Solid Waste Management Units" (SWMU) identified during the course of the RCRA Investigations that have current or on-going corrective measures. Subsequent paragraphs and following the table summarize the investigation reports in greater detail.

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#30/#79	Former J-Lot Fill Area		Northeast of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#32/#49	**Former Coal Pile Storage Area**	**X**		**Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water**
#3/#74	Container Storage Area		Southeast of Site on Pontiac Assembly Property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#29/#66	Wastewater Treatment Plant		Southeast of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#31/#54	Former Surface Impoundment		Southeast of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#33/#45	Former South Retention Pond		Southeast of Site	No Further Action (NFA)
#34/#46	North Retention Pond		Northeast of Site on former Pontiac Centerpoint Campus – East	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#16	Former Building 29 Tank Farm;		East of the Site on Pontiac Centerpoint Campus – Central property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#6/#42	Building 53 Tank Area		Southeast of Site	No Further Action (NFA)
#44	Building 43 Remediation		Southeast of Site	No Further Action (NFA)
#50	**DUCO Stores**	**X**	**Covers Site and area east of Site (Pontiac Centerpoint Campus – Central)**	**Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water**
#52	**Building 35 Tank Farm**	**X**		**Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water**

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#53	**Building 33 Free Product Area**	**X**		**Product recovery terminated in accordance with USEPA approval letter dated 5/6/09. CRA stated the received NFA approval e-mail from the EPA case officer**
#69	Container Storage Area		Southeast of Site	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#71	Burn Pile Area;		Southeast of Site	Passive recovery is complete. Approval to terminate passive recovery granted in US EPA letter dated 5/6/09. Completed 1st year of SMR in 2009. The Site will submit final monitoring report in March 2011.
#2/#75	Former East Tank Farm		Southeast of Site on Pontiac Assembly property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#82	Former Paint Mix Room Retention Tank		Southeast of Site on Pontiac Assembly property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#83	Dock 65		Southeast of Site on Pontiac Assembly property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#84	Former Tank Farm Area		Southeast of Site on Pontiac Assembly property	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water

A Corrective Measures Proposal (CMP) was issued by CRA on April 21, 2006 for the entire Pontiac Centerpoint Campus (PCC) facility. U.S. EPA reviewed the CMP and responded with final remedial actions required in letter dated August 3, 2006: Response to Comments and Final Decision. An Administrative Order On Consent (Consent Order) was agreed upon in May 2007. The status of Final Corrective Measures in the Consent Order is stated below. All of the following AOIs and SWMUs are located within the Site boundaries:

- AOI #49/SWMU #32: Former Coal Pile Storage Area
- AOI #50: DUCO Stores
- AOI #52: Building 35 Tank Farm
- AOI #53: Building 33 Free Product Study Area

A summary of the historical environmental issues associated with each AOI/SWMU located on the Site is presented below.

AOI #49/SWMU #32: Former Coal Pile Storage Area

The former Coal Pile Storage Area was located south of Building 34 at the south end of the south parking lot. The former Coal Pile Storage Area was historically used to manage power house coal unloaded from railroad cars. The Coal Pile Storage Area was identified as a suspected source of polychlorinated biphenyls (PCBs) (suspected to have resulted from a shipment of contaminated coal) identified in October 12, 1977 in stormwater runoff to a storm sewer that emptied into a tributary of the Clinton River. Energy conversion at the Facility from coal to natural gas was completed on August 4, 1997. As a result, the Powerhouse, together with the former Coal Pile Storage Area, underwent decommissioning and demolition activities.

Consistent with the April 29, 1988 meeting between U.S. EPA and GM, the former Coal Pile Storage Area was addressed as an Interim Measure (IM) to support on-going redevelopment at the Facility. The results of the IM investigation were presented in the RCRA Interim Measure Investigation and Design Report - Former Coal Pile Storage Area (CRA, 1999) and the Addendum to RCRA Interim Measure Investigation and Design Report - Former Powerhouse Coal Pile Storage Area (CRA, 2000). The IM investigation results showed that concentrations of all detected constituents were below Michigan Act 451, Part 201 cleanup criteria applicable at that time. U.S. EPA agreed that no further action is necessary for this area in correspondence dated June 15, 2000.

No exceedances of Michigan Act 451, Part 201 cleanup criteria were identified and, therefore, no further action is required at this AOI. However, because this SWMU/AOI was within GM's active operations, institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source, were proposed and implemented as a Corrective Measure.

AOI #50: DUCO Stores

AOI #50 includes the DUCO Stores underground storage tank (UST) Area and the DUCO Stores Fuel Line Study Area. The DUCO Stores AOI is located beneath the south end of the site building (Building 34).

UST Area

The DUCO Stores UST area consisted of eight steel USTs installed in 1927. The USTs contained gasoline, railway end lube, glycol, axle oil, and diesel fuel. On February 2, 1990, gasoline was identified to be infiltrating into a sanitary sewer line located to the west of the former DUCO Stores UST area (MDEQ Release Number C-0235-90). In May 1990, gasoline was discovered infiltrating into a storm sewer, which was located near the DUCO Stores fuel lines (MDEQ Release Number C-0776-90). Following both instances, the sewer was plugged and the sewer contents removed, as necessary, by vacuum tanker truck. In June 1990, Northeast Research Institute, Inc. (NERI) performed a soil gas survey of the area. The results of the survey were presented in the report entitled Findings of the Petrex Soil Gas Survey for the DUCO Stores Tank Farm Site (NERI, 1990). This report identified compounds typically found in gasoline in the soil vapors. A plume of oil constituents was also identified as being present in the DUCO Stores UST area.

In August 1991, all eight USTs in this area were excavated and removed. Following collection of 36 confirmatory samples from the UST cavity by Maecorp, diesel fuel was observed seeping into the excavation (MDEQ Release Number C-1831-91). Approximately 100 gallons of diesel fuel were recovered before seepage ceased. Benzene, benzo(a)anthracene, and chrysene were identified above the Michigan Act 307 Type B Direct Contact Criteria (DCC) applicable at that time. Approximately 3,000 cubic yards (cy) of soil was excavated and thermally treated via low temperature thermal desorption. Further excavation to the east and west was not possible due to the location of existing structures, including buildings, concrete sewers, and a concrete storage pad. However, additional remedial excavation of the base was conducted. Confirmatory samples were collected and submitted for benzene, toluene, ethylbenzene and xylenes (BTEX) and polynuclear aromatic hydrocarbon (PNA) analyses. Residual concentrations were identified to marginally exceed their respective Michigan Act 307 Type B soil cleanup criteria applicable at that time. Further remedial excavation of the floor was conducted. Analytical results for the confirmatory samples collected from the floor of the excavation indicated no residual BTEX or PNAs at concentrations exceeding Michigan Act 307 Type B DCC applicable at that time.

In January 1994, CRA was retained to further define the nature and extent of any potential residual soil contamination in the area. CRA installed six soil borings and deepened the northern end of the excavation by approximately 2 feet resulting in the removal of an additional 175 cy of soil. Three soil samples were collected from the northern floor of the excavation and were submitted for BTEX and PNA analyses. Results of the investigation were summarized in the DUCO Stores Study Area – Final Report (CRA, 1994c). This Report concluded that minor residual concentrations of BTEX and PNAs remained in soils at inaccessible locations. During expansion activities of Building 34/52 in October 1997, GM contractors encountered diesel fuel odors and stained soils adjacent to the eastern side of a 12-inch diameter storm sewer line south of Building 34 at a depth of approximately seven feet below ground surface (bgs). In October 1997, CRA excavated approximately 8,400 cy of potentially affected soil. CRA collected a total of 49 soil samples from the excavation limits. BTEX and PNAs were not detected above applicable Michigan Act 451, Part 201 Industrial Direct Contact or Soil Inhalation Cleanup Criteria for soil in any of the samples collected from the excavation limits. Results of the remedial work were summarized in the Building 34 Excavation Summary Report (CRA, 1998a). This area is currently open on the MDEQ Leaking UST (LUST) list. It is expected that on-going natural attenuation will continue to degrade the low levels of residual BTEX and PNAs.

Fuel Lines Study Area

The DUCO Stores Fuel Line Study Area consisted of an underground distribution network for gasoline and fuel oil that was installed in 1927, which originated from a pumping station in the former Building 21. As previously mentioned, gasoline was discovered infiltrating into a storm sewer, which was located near the DUCO Stores fuel lines (MDEQ Release Number C-0776-90) in May 1990.

In 1992, WWES installed 12 soil borings and three monitoring wells in Building 11, in the north end of Building 12, and within Building 27. BTEX constituents were identified at levels exceeding the Michigan Act 307 Type B soil cleanup levels applicable levels. In order to further define the extent of the sand lens where evidence of gasoline vapors was detected, seven soil borings and three test pits were installed by CRA in the vicinity of the fuel line in January 1994. Soil samples were collected from each borehole for BTEX and lead analysis. The results of the analysis did not identify any further areas of residual BTEX constituents in soil at levels of concern. The perched water was identified as being minor in extent and/or seasonally dependent. The DUCO Stores – Fuel Line Study Area – Final Report concluded that no additional investigation or remediation was required or warranted within this area (CRA, 1994b). This area is currently open on the MDEQ LUST list. It is expected that on-going natural attenuation will continue to further degrade any remaining BTEX constituents.

Residential and industrial exceedances of Michigan Act 451, Part 201 SVIIC, VSIC, GCPC, and DCC (Soil Volatilization to Indoor Air Inhalation Criteria, Infinite Source Volatile Soil Inhalation Criteria, Groundwater Contact Protection Criteria, and Direct Contact Criteria) were identified in soil. Residential and industrial exceedances of Michigan Act 451, Part 201 Drinking Water Criteria (DWC) were also identified in groundwater. The proposed and implemented Corrective Measure for this area is closure in accordance with Michigan Act 451, Part 213 requirements and institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source.

Additional actions requested by the MDEQ were reportedly performed by CRA in August 2009, which consisted of groundwater sampling and analysis. However, the data were not available at the time this document was prepared. The CRA Project Manager for the PCC-West Parcel indicated that submittal of a final report should be sufficient for closure assuming the results of the groundwater analyses are favorable. Otherwise, additional investigation may be required by MDEQ for closure. According to a conversation with the CRA Project Manager, Sylvie Eastman, on February 3, 2010, a round of groundwater monitoring was conducted in November 2009. CRA is preparing a report with 2 rounds of clean groundwater sample results. The November 2009 sampling event may be the last sampling event and the results could be sufficient for closure.

AOI #52: Building 35 Tank Farm

The Building 35 Tank Farm is located north of the main Site building (Building 34). In 1946, a dynamometer tank farm was installed west of Building 35. The tank farm consisted of six 2,000-gallon USTs (Dyno Tanks 1 through 6). The tanks initially contained diesel fuel, regular/premium fuel, special fuels, and mineral spirits. The dynamometer tank farm supplied fuel through overhead fuel supply lines located inside Building 35 and the tunnel connecting Building 35 and Building 33 to an indoor vehicle fueling station located inside Building 33. In 1961, the indoor fuel supply lines connecting Building 35 to Building 33 were removed; however, the USTs remained in service and new lines connected Building 35 to an outdoor fuelling station south of Building 33. In 1971, a new 10,000-gallon diesel fuel UST was installed south of the dynamometer tank farm and was connected to the most southerly of the tanks in the Dyno tank farm. In 1984, this tank was removed and replaced by two 12,000-gallon USTs (Dyno Tanks 7 and 8). The newly installed USTs contained diesel fuel and special leaded gasoline, and were not connected to the dynamometer tank farm.

In June 1991, a backhoe accidentally punctured the 12,000-gallon gasoline UST, which resulted in an estimated loss of 20 gallons. During recovery activities, historic diesel contamination north of the two 12,000-gallon USTs was identified (MDEQ Release Number C-1245-91). This contamination was suspected to be from the historic 10,000-gallon diesel UST, which had been in the same UST cavity. On October 12, 1992, GM reported a suspected release (MDEQ Release Number C-1771-92) following structural integrity testing of the tanks. The release was confirmed (MDEQ Release Number C-1832-92) on October 21, 1992 following receipt of the results from a second tank test.

On November 5, 1992, another release was reported from the same tank system based on additional structural integrity testing (MDEQ Release Number C-1972-92).

In September 1994, Dyno Tanks 1 through 6 were removed by Progressive Environmental Consulting & Engineering, Inc. (Progressive) along with 450 cy of impacted soil. Follow-up sampling indicated that further excavation was required. In October 1994, Progressive performed further excavation (1,244 cy) and collected additional confirmatory samples until the results of confirmatory samples were below Michigan Act 307 Type B criteria. A Closure Report for the 1992 releases described above was submitted to Michigan Department of Natural Resources (MDNR), which is now known as the MDEQ-USTD. In July 2005, Dyno Tanks 7 and 8 were removed from the ground. A sheen was observed on the groundwater in the UST cavity. The suspected release was reported to the MDEQ. Subsequent analytical results confirmed a groundwater release (MDEQ Release Number C-0202-05), and an Initial Assessment Report was submitted to the MDEQ and U.S. EPA in October 2005 (CRA, 2005b).

No constituents were identified above Michigan Act 451, Part 201 generic residential criteria for soil. Concentrations of a few petroleum hydrocarbon constituents were detected above the GSIC and DWC in groundwater. This area will be further evaluated under Michigan Act 451 Part 213 for USTs. A supplemental investigation is pending to define the groundwater impacts and assess the potential impact to utility trench/storm sewer backfill. In addition, the outstanding open MDEQ release numbers (C-1245-91, C-1771-92/C-1832-92) will be evaluated with the MDEQ.

Open MDEQ Release Numbers, including the July 2005 Release Number C-0202-05, are present at this area. A supplemental groundwater investigation in this area is pending. The proposed and implemented Corrective Measure for this area is closure in accordance with Michigan Act 451, Part 213 requirements (subject to supplemental groundwater investigation) and institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source.

The Building 35 Tank Farm area requires a separate deed restriction to address controls for residual contamination in soil and groundwater. On February 3, 2010 the CRA Project Manager for the Site was contacted by ARCADIS. The CRA Project Manager for the Site stated that the deed restriction was completed by MLC. There is a six week process to complete closure. The MDEQ LUST program contact is Kristi Clark.

AOI #53: Building 33 Free Product Study Area

The Building 33 Free Product Area is located beneath the former Building 33 location north of the main Site building (Building 34). Light Non-Aqueous Phase Liquid (LNAPL) is present at a depth of approximately 15 to 20 feet bgs. The LNAPL was the result of a historical gasoline release. The source of the gasoline release is believed to be an underground fuel line that was discovered to be leaking in 1968/1969. The fuel line supplied a fuel island south of Building 33.

In 1969, the underground supply lines were abandoned and capped at both ends. In 1970, a new outdoor fueling station was installed between Building 33 and Building 34. The fueling station consisted of three 10,000-gallon USTs. These USTs were subsequently replaced in the early 1990s with two 12,000-gallon USTs. During the removal of the historic tanks, contamination was identified (MDEQ Release Number (C-1468-92). Approximately 13,000 tons of soil excavated from this area was treated by low temperature thermal desorption. Remaining concentrations of BTEX and naphthalene, the only detected constituents, were at or below Michigan Act 307 Type B levels. This release was subsequently closed by the MDNR. The results of this investigation were presented in a letter report entitled GM Truck Platforms – Engineering-Building 34 (GM, 1993).

In 1989, E.C. Jordon attempted to recover the LNAPL in this area using traditional pump and treat technology. In 1990, the gasoline collection system was terminated, as it was determined to be ineffective because only 120 gallons of LNAPL had been recovered. CRA conducted a subsurface investigation of the area in 1994. Soil samples were screened using a photoionization detector (PID) and submitted for BTEX and lead chemical analysis. A monitoring well (MW33-1-94) was installed within one of the interior building boreholes. No groundwater samples were collected. Gasoline LNAPL was encountered at depths of approximately 15 to 19 feet bgs within sand and/or silt lenses. The results of the 1994 investigative activities indicated that benzene was detected in soil at concentrations that exceed the Michigan Act 451, Part 201 industrial and commercial VSIC at one sample location. In addition, BTEX was detected at concentrations exceeding the Michigan Act 451, Part 201 industrial and commercial SVIIC at one location. Benzene was also detected at one sample location at a concentration exceeding SVIIC. At one soil boring location, exceedances of the Michigan Act 451, Part 201 industrial and commercial DCC and GCPC for toluene, ethylbenzene, and xylenes were also identified.

At the completion of the 1994 investigation, CRA completed a remedial alternatives evaluation which was presented in the Subsurface Investigation/Remedial Alternatives Evaluation Report, Building 33-Free Product Gasoline Plume (CRA, 1995c). The evaluation included the following alternatives: No Further Action; Institutional Controls/Monitoring; Free Product Extraction; In-Situ Vapor Extraction; Horizontal Drilling for Product Recovery and/or In-Situ Vapor Extraction; and Excavation. There is no indication that any of these remedial alternatives were ever implemented.

CRA conducted an environmental subsurface investigation between June 2004 and November 2004 to delineate LNAPL, soil, vapor, and groundwater impacts associated with a historical gasoline release from a former UST system at Building 33. During the course of the investigation, a second heavier (non-gasoline) LNAPL was identified in an area just east of the gasoline LNAPL beneath Building 33.

Consequently, the scope of the investigation was expanded to also delineate the LNAPL, soil, and groundwater impacts associated with the second LNAPL type. The investigations were conducted in accordance with the Building 33 IM Work Plan (CRA, 2004b) and the Building 33 Additional Investigation Work Plan Memorandum (CRA, 2004a). The gasoline LNAPL is referred to as LNAPL Area 1. The second heavier LNAPL is referred to as LNAPL Area 2.

The results of this investigation were reported to the U.S. EPA in the Building 33 Interim Measures Investigation Summary Report (CRA, 2005a). The horizontal extent of LNAPL in both areas was delineated. The LNAPL in LNAPL Area 1 consists of a slightly weathered gasoline with a mixture of some diesel or No. 2 fuel oil. The LNAPL in LNAPL Area 2 consists of a heavier petroleum hydrocarbon with properties characteristic of a hydraulic oil or lube oil. Monitoring well head space readings during investigation activities indicated that gasoline vapors only in LNAPL Area 1 were greater than the lower explosive limit (LEL) for gasoline in several monitoring wells.

Between December 2004 and February 2005, a remedial pilot study was completed to evaluate the effectiveness of a high vacuum, multi-phase extraction (MPE) system to remediate LNAPL beneath Building 33. The pilot study was conducted in accordance with the "Interim Measures Work Plan, Remedial Pilot Study, Building 33, LNAPL Area 1" submitted to the U.S. EPA in November 2004 (CRA, 2004b). LNAPL was extracted from eight existing monitoring wells contained within LNAPL Area 1 between December 7, 2004 and February 15, 2005. Approximately 3,097 gallons of LNAPL equivalent were recovered from all three phases (vapor-phase, dissolved-phase, and free-phase) during the pilot study. The results of the remedial pilot study indicated that a full-scale MPE system would be an effective remedial technology for the LNAPL in LNAPL Area 1.

Building 33 was demolished in December 2005. Risk-based soil and groundwater cleanup criteria for the smear zone soil and perched groundwater in LNAPL Area 1 were calculated based on consideration of vapor intrusion into a hypothetical industrial/commercial building, and potential exposure of construction workers during occasional excavations that extend into the smear zone and perched groundwater. The results of the risk calculations indicated that an explosion hazard rather than health risk was a more significant consideration for the remediation of LNAPL in Area 1. Subsurface conditions at LNAPL Area 1 are such that Corrective Measures for mitigating an explosion hazard would also be expected to mitigate the potential for significant indoor health risks.

A risk-based evaluation of LNAPL Area 2 was conducted to determine whether the existing conditions in this area pose a significant risk. Potential exposures were evaluated for the same exposure scenarios evaluated for LNAPL Area 1 and using similar exposure assumptions. Based on the evaluation, the existing conditions did not pose a significant risk.

As discussed in Section 4.6 of the CMP, CRA evaluated six Corrective Measures in 1994. Based on this previous evaluation and a recent pilot study performed at this area, the selected alternatives were: Alternative 1- Passive Recovery for LNAPL Area 2, and Alternative 2- MPE for LNAPL Area 1 with institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source. In LNAPL Area 1, LNAPL recovery would be implemented using MPE with pneumatic airlift and pneumatic fracturing through an extraction well network that fully covers the areal extent of the plume.

MPE recovery of light LNAPL from beneath Building 33 was discontinued in October 2008 following achievement of asymptotic conditions (according to the Project Manager for the facility). In their letter dated May 6, 2009, the U.S. EPA granted permission to terminate LNAPL recovery from the LNAPL Area 2. Follow-up activities for closure included the collection of soil, groundwater and soil gas samples to confirm that an explosive hazard condition no longer exists at this AOI. The scope of work for the post-remediation evaluation is detailed in a CRA Memorandum “Post-MPE Work Plan” dated 4/3/2009. This work was recently completed by CRA, including the requirements for additional vertical delineation. CRA submitted analytical results and a NFA request to the EPA and received an e-mail from the Case Officer approving the NFA. There is a chance that MDEQ may require additional monitoring since there is still LNAPL in the ground, however, since it is not a LUST site additional monitoring may not be necessary. .

Other Corrective Measures on Surrounding Properties

The CMP also contains other Corrective Measures for the identified SWMUs/AOIs (listed in the table above) that are located on other portions of the former GM Centerpoint Campus and are beyond the boundaries of the Site and therefore not applicable to the Site, specifically.

In the EPA's 2006 Response to Comments and Final Decision letter, the EPA chose the final corrective action remedy for the Site. The EPA stated that the remedy would include recovery of LNAPL from underneath Building 33, long-term groundwater monitoring, passive recovery from well #MW-1, and institutional controls for soil and groundwater.

An Administrative Order on Consent was issued to Pontiac Centerpoint Campus/Pontiac Assembly Center Former Pontiac Truck Group on May 16, 2007. The Order was issued under Section 3008(h) of the Solid Waste Disposal Act. There had been a release of hazardous wastes or hazardous constituents into the environment from the Site. GM conducted investigations and removed soil contaminated with benzene, toluene, ethylbenzene and xylene (BTEX) and polynuclear aromatics (PNAs) at AOI # 16, 42, 50, 52, 53, and 84. The removed soil contaminated with lead at AOI #44, 71, and 79. They removed soil contaminated with solvents and paint at AOI #75, 82, and 83. They recovered LNAPL from groundwater at AOI #50 and 53. The U.S. EPA determined that the parts of the Facility not covered by the Final Decision dated August 3, 2006 and/or not subject to use restrictions are Corrective Action Complete without controls.

The Long Term Monitoring Plan includes the Burn Pile Area (AOI #71) and the Building 33 Free Product Area (AOI #53). The Plan describes that monitoring of groundwater elevations, the presence of LNAPL, and chemical concentrations, will be performed at the Burn Pile Area due to impacts associated with historic filling and at specific monitoring wells associated with the former Building 33 Free Product Area due to prior petroleum releases. Monitoring at the Former Duco Stores Tank Farm (AOI #50) and the Former Building 35 Tank Farm (AOI #52) was not specifically required in the Final Decision. GM elected to conduct monitoring at AOI #52 due to LUST-associated monitoring taking place at AOI #52).

The Dyno Tank Closure Report discusses release C-0202-05. Release C-0202-05 corresponds to Dyno Tanks #7 and #8 at Building 35 of the Site. Dyno Tank #7 contained 12,000-gallons of diesel and Dyno Tank #8 contained 12,000-gallons of gasoline. A suspected release was filed with the MDEQ while removing the tanks in July 2005. Soil and groundwater verification sampling was performed at the Site. The investigation and analytical data showed that the Site conditions complied with the MDEQ requirements for a restricted Tier 1 Industrial closure. A restricted Tier 1 Industrial closure of release C-0202-05 was requested on behalf of GM.

The DUCO Stores Supplemental Work Plan summarizes the additional delineation and sampling activities that were to be conducted to close the LUST AOI #50. Eight 12,000-gallon USTs were located in AOI #50. The tanks contained gasoline, diesel fuel, RR end lube, glycol, and axle oil. Four monitoring wells were proposed to be installed to delineate the exceedances detected in the borehole water samples collected during the 2008 field investigation and to determine the impacts within the former location of the tanks and verify that NAPL is not present.

4.1.2 Historic Map Review

ARCADIS contracted Environmental Data Resources, Inc. (EDR) to conduct a Sanborn Fire Insurance (Sanborn) map search for the Site. According to EDR, there are no Sanborn maps for the Site (Appendix B).

However, Pontiac Centerpoint Campus – Central, located east of the Site, had historical Sanborn maps for the years 1950 and 1970.

The 1950 Sanborn map depicts the Site as improved. The following areas are identified on the Site:

- Boiler room: is associated with water tank, a “2-million gallon water reservoir”;
- Paint Storage building: contains seven “Gas & Thinner Spent Tanks” located outside the building;
- Greyhound Coach & Assembly Building: the building contains a total of 17 spray bays, a “Dynamometer Test Building”;
- Engineering Building: the building is noted as constructed in 1946;
- Coal Pile: a coal pile is noted on the southeast portion of the Site;
- East of the factory building, along a series of railroad tracks, is a “Scale House”, four concrete platforms for rail car staging, a “Die Storage” building, “Metal Scrap Baler” building and “Salvage Bins” storage area; and
- Other notable features identified on the Sanborn map included 10 railroad track lines along the west side of the Site building and the pipe gallery extending overhead from the west adjacent boiler house to the factory building.

The 1950 Sanborn map depicts the east abutting property as improved with the primary factory building surrounded by eight auxiliary buildings. The Factory Building is identified as constructed in 1927. The northeast portion of the buildings is labeled as the "Truck Body Shop". "Body Paint" operations are identified in the eastern portion of the factory. "Chassis Spraying" and "Receiving" storage is noted in the southeastern portion of the factory building. "Metal Storage", "Dry Lumber" storage and "Dry Kilns" are noted in the southern portion of the factory. "Wood Working" and "Steel Working" shops are depicted in the southwest portion of the site building. The western portion of the building appears to be used for stock storage and the "Crate Shop" area. "Spraying", "upholstery" and "Experimental Shop" operations are noted in the northwest portion of the factory. The northern portion of the building is occupied by "Engineering Offices" and "Kitchen" with a cafeteria. Extending from the north side of the factory building is a smaller building that is occupied by an office with an auditorium and a garage area. The southeast corner of the building appears to contain a transformer and switch house. This building is noted as constructed in 1927. A "Personnel Building" is located near the northeast corner of the factory building. This building is noted as constructed in 1941. East of the factory building is the "Engine Shop" building 29. The Sanborn map only provides coverage of the west portion of this building. EDR indicated there was no Sanborn coverage to the east of the Site.

The 1950 Site map identifies South Boulevard to the north with no coverage beyond South Boulevard. According to EDR, there is no Sanborn coverage to the south of the Site. The Grand Trunk Railroad lines are depicted to the southeast of the Site. The 1970 historical Sanborn map depicts the Site and surrounding area similar to the 1950 historical Sanborn map.

Based on the information obtained from the historical records reviewed, it appears that either historical and/or current RECs are present at the Site. Refer to Section 7.0 for a discussion of the RECs and HRECs identified during the course of ARCADIS' investigation.

4.1.3 Aerial Photograph Review

ARCADIS reviewed historical aerial photographs provided by EDR for the years 1937, 1940, 1949, 1955, 1964, 1972, 1980, 1993, 2000, and 2005.

The 1937 aerial photograph depicts the east side of the Site as developed and undeveloped on the remaining portion of the Site. The land north of the Site appears undeveloped. The land east of the Site contains a paved lot. Rail car platforms and rail car storage is noted on the eastern portion of the Site. A long pipe is noted as extending from the Site to the industrial building on the east side of the Site. There are railroad tracks depicted south of the Site. South of the railroad tracks is undeveloped land and residential property. The land west of the Site contains a building.

The 1940 aerial photograph shows a building removed from the east side of the Site. There also appears to be additional parking and cleared land on the east side of the Site. Coal storage appears in the southeast corner of the Site. The surrounding properties appear similar to the 1937 aerial photograph.

The 1949 aerial photograph shows the current building at the Site. The Site is fully developed. The Site appears to have two larger industrial buildings and five smaller auxiliary buildings. Piping from the southernmost building on the Site extends from the building to the east adjacent industrial building. The property north of South Boulevard appears to be more developed. The properties west and east of the Site also appear to have additional development.

The 1955 and 1964 aerial photographs show the Site and the surrounding area essentially the same as the 1949 aerial photograph.

The 1972 aerial photograph shows the Site with new additions to the west side of the main Site building on the east side of the property. There appears to be additional development south of the railroad tracks.

The 1980 aerial photograph shows a new road, Martin Luther King Junior Boulevard, west of the Site. The Site is improved with eight industrial buildings surrounded by paved parking areas and material storage. There is additional development north of South Boulevard. The Site appears similar to the 1972 photograph.

The 1993 aerial photograph shows the Site and the surrounding area essentially the same as the 1980 photograph. The previously identified railroad tracks on the east portion of the Site are longer visible.

The 2000 aerial photograph shows the new office building built over the existing plant east of the Site. There is no longer coal storage at the Site. The property north of South Boulevard appears to be under construction. The building on the southwest corner of the Site appears to have been removed.

The 2005 aerial photograph shows the completed building on the property north of South Boulevard. The building in the northeast corner of the Site appears to have been removed.

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 every five years between 1922 and 2009, as available. The city directory information indicated that listings were found with the Site address, 660 South Boulevard East. The Site address listings included:

- 1945: General Motors Corp. Truck & Coach Division, Hertz Driveurself Stations and Yellow Truck & Coach Mfg. Co.
- 1962,1957, and 1952: General Motors Corp. Truck & Coach Division
- 1973: GMC Truck & Coach Division
- 1979: GMC Truck & Coach Division, JA Fredman Co., and Limbach Co.
- 1989: GMC Truck & Coach Division and Truck & Bus Group
- 1994: N. Amer. Truck Pltfm
- 1999: GM Truck Group Pontiac
- 2004: GM Truck Group Dacor Accounts Pay and GM Truck Group Pontiac Assembly
- 2009: General Motors Corp. and GM Truck Group

The EDR report identified the following occupants for adjacent property addresses:

- 1931: General Motors Truck Corp., Hertz Driveurself Sales Corp., and Yellow Truck & Coach Mfg. Co. (750 South Boulevard East), Yellow Cab Cafeteria (661 South Boulevard East), and Bauman's Tavern (600 South Boulevard East)
- 1939: Fleet Carrier Corp. (trans.) (586 South Boulevard East), Bauman's Tavern (600 South Boulevard East), Residential (651 South Boulevard East), and Pontiac City Dog Pound (661 South Boulevard East).
- 1945: Fleet Carrier Corp. (trans.) (586 South Boulevard East), US Truck Co., Inc. (600 South Boulevard East), and Pontiac City Dog Pound (661 South Boulevard East).
- 1952: Fleet Carrier Corp. (trans.) (586 South Boulevard East), US Truck Co., Inc. and Bauman Restaurant (600 South Boulevard East), and Fine Craft Jewelry Co. and West Side Van & Stge Co. (661 South Boulevard East).
- 1957: Fleet Carrier Corp. (trans.) (586 South Boulevard East), US Truck Co., Inc. and Bauman Restaurant (600 South Boulevard East), and Corvette Enterprise (hdw. appl.) (661 South Boulevard East).

- 1962: Fleet Carrier Corp. (trans.) (586 South Boulevard East), US Truck Co., Inc. and Bauman Restaurant (600 South Boulevard East), and Corvette Enterprise (whol. jwlry) (661 South Boulevard East).
- 1973: BF Goodrich Co. and Fleet Carrier Corp. (586 South Boulevard East).
- 1989: Wilco Construction (586 South Boulevard East).
- 1994: Wilco Construction (586 South Boulevard East) and Baker Concrete (700 South Boulevard East).
- 2004: Phalgun Properties (633 South Boulevard East) and Diversified Glass Corporate Ofcs. And Henderson Glass Corporate Ofcs. (715 South Boulevard East).
- 2009: E DS, General Motors Corp., and Pontiac Office Center (585 South Boulevard East).

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 is a 15-minute series map depicts the Site as primarily unimproved land. South Boulevard is present to north. Residential structures are located to the north of the Site. The east adjacent property appears to be unimproved land. Grand Trunk Railroad is present to the south and southwest.

The 1943 topographic map is a 7.5-minute series map that shows the Site as mostly undeveloped with one small structure in the southeast corner of the property. Railroad tracks are depicted to the south of the Site. South Boulevard is depicted to the north of the Site. A large structure is depicted east of the Site. Railroad tracks are also located east of the Site.

The 1952 topographic map depicts four buildings on the Site and a larger building east of the Site. The surrounding area appears to be similar to the 1943 topographic map.

The 1968 topographic map depicts the Site similar to the 1952 map, with the exception of a new extension to the original footprint of the building east of the Site. Residential properties have been developed to the south of the Site.

The 1973 topographic map shows some expansion to the original building footprint on the east side of the Site. The surrounding area appears similar to the 1968 map with the exception of a new building east of the Site.

The 1983 topographic map depicts the Site and the surrounding area similar to the 1973 topographic map with the exception of a new building directly east of the building on the east side of the Site.

The 1997 topographic map depicts the Site and the surrounding area similar to the 1983 map.

The EDR Topographic Map report is included in Appendix B.

4.1.6 Building/Planning Departments

ARCADIS accessed the Commercial and Industrial Property Profile on the Oakland County website to review available records on file for the Site. The parcel ID was listed as 19-03-126-003 for the Site address. The owner for the Site address was listed as General Motors Corp Truck and Bus Group. The parcel was listed as deleted on May 6, 1994. The Access Oakland helpline was contacted to see if another parcel ID exists for the Site. Oakland County stated that parcel ID 19-03-126-003 was the only ID listed for the Site address.

4.1.7 Additional Record Sources

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

4.1.8 Summary of Historical Information

Based on the historical sources reviewed, the Site consisted of unimproved land as of 1907. Operations at the Centerpoint Campus began in 1927 with the production of medium and heavy duty truck and buses at the former Pontiac Central Manufacturing and Assembly Plant located on the northwest corner of the Campus and the Assembly Plant Facility, with which the Site was contiguous. The Site was partially utilized for parking between 1937 and 1949. The Site was improved with the main building in 1949 according to the aerial photograph. The site building was initially utilized by General Motors Corp. Truck and Coach. The building was used as a Greyhound Coach and assembly building. The building was later used for vehicle testing. Additional Site buildings appeared between 1949 and 2005. Coal was stored on the southeast portion of the Site Between 1937 and 2000 according to aerial photographs.

The former PCMAP occupied a portion of the Site (the majority of the former PCMAP was located east of the Site). Many buildings were previously located on the northern portion (Buildings 21, 22, 32, 33, 34, 35, 39, 52, 59, 60, 61, 62 and 66.).

4.2 Historical Use Information on Adjoining Properties

The properties surrounding the Site to the east and southeast were historically a part of General Motors (GM) Centerpoint campus that included more than 60 manufacturing buildings on over 400 acres. Industrial operations at these properties began in 1927 and were contiguous with the on-site production of medium and heavy duty trucks and buses. Subsequent automobile manufacturing operations were expanded to the east adjacent property and a waste water treatment plant to the southeast. In 1991, redevelopment of the Centerpoint Campus was initiated and included the sub-parceling of the campus' facilities into four major parcels:

- Pontiac Centerpoint Campus – West: The Site
- Pontiac Centerpoint Campus – Central: east adjacent property
- Pontiac Centerpoint Campus – East: located beyond the east adjacent property, east of Centerpoint Campus Drive
- Pontiac Assembly Plant: located southeast of Pontiac Centerpoint Campus – Central, beyond Centerpoint Campus Drive

The industrial operations at the east adjacent Pontiac Assembly Center and Pontiac Centerpoint Campus - Central ceased in 2008 and 2009. The southeast adjacent waste water treatment plant treated its last batch of water in December 2009.

According to the Oakland County Commercial and Industrial Property Profile, the adjacent properties located on the Centerpoint Campus are owned by General Motors Corporation. It is ARCADIS' understanding that during the bankruptcy proceedings in 2009, General Motors Corporation transferred assets, including the surrounding Centerpoint Campus properties to Motors Liquidation Company.

4.3 Physical Setting

4.3.1 Geology

4.3.1.1 Surface Features

Information regarding the regional and Site specific geology was obtained from EDR and prior Site investigations.

According to the EDR topographic information (Glassport, PA USGS Quadrangle Map), the Site elevation is approximately 940 feet above mean sea level. Topographically, the Site is generally flat due to extensive grading activities conducted during the development of the manufacturing complex. The general area has a gradual gradient sloping to the east/northeast.

4.3.1.2 Subsurface Features

According to EDR the soil component name of the Site is Urban Land. Soil Surface texture was not reported. The soil drainage class in the region is not reported and the hydric status is unknown. Underlying the surface, shallow, and deep soils are the bedrock deposits classified as Paleozoic Era, Mississippian System and Osagean and Kinderhookian Series.

According to the 2005 RCRA Facility Investigation Report, the geology profile of the Site includes surficial fill, glacial till deposits, and Mississipian-aged bedrock. The surficial fill, consisting of mixed sand, gravel, clay, asphalt, and concrete, is found from 5 to 15 feet below grade. The glacial till deposits, consisting of medium-textured and poorly stratified clay till with laterally continuous sand layers, is found from 15 feet to 350 feet below grade. Bedrock is found from 250 to 350 feet below grade.

4.3.2 Hydrology

4.3.2.1 Surface Water

There are no retention basins at the Site. Surface water flow in the areas of the building and the paved driveways and parking areas is largely controlled by drainage structures along roadways and in paved areas. The regional flow is not reported in the EDR Radius Map Report.

4.3.2.2 Groundwater

Based on the Geocheck® Addendum to the EDR Radius Map Report groundwater flow direction is not reported. The Site gradient is east/northeast.

According to the 2005 RCRA Facility Investigation Report, groundwater has been found at depths of 10 to 20 feet below ground surface at the Site. Groundwater has been found in confined conditions within the glacial till approximately 120 to 250 feet below ground surface.

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	0 – 1/8 mile	1/8 – ¼ mile	¼ - ½ mile	½ - 1 mile	< 1 MILE
NPL (National Priority List)	1.125 mile	No	0	0	0	0	0
Proposed NPL	1.125 mile	No	0	0	0	0	0
NPL LIENS (Federal Superfund Liens)	0.125	No	0	NR	NR	NR	NR
Delisted NPL	1.125 mile	No	0	0	0	0	0
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.625 mile	No	0	0	0	0	NR
FEDERAL FACILITY	1.125 mile	No	0	0	0	0	0
CERCLIS-NFRAP (No Further Remedial Action Planned)	0.625 mile	Yes	0	0	0	1	NR
RCRA CORRACTS (Corrective Action Report)	1.125 mile	Yes	0	0	0	0	0
RCRA TSDF (Transporters, Storage, and Disposal Facilities)	0.625 mile	Yes	0	0	0	0	NR
RCRA Generators	0.375 mile	Yes	0	0	0	NR	NR
US Inst Control	0.625 mile	Yes	0	0	0	0	NR
ERNS (Emergency Response Notification System)	0.125 mile	Yes	0	NR	NR	NR	NR
SHWS (Contaminated Sites)	1.125 mile	Yes	0	0	0	0	0
State & Tribal SWF/LF (Solid Waste Facilities Database)	0.625 mile	No	0	0	0	0	NR
State & Tribal LUST (Leaking Underground Storage Tank Sites)	0.625 mile	Yes	0	0	1	2	NR
State & Tribal USTs	0.375	Yes	0	1	1	NR	NR

Database	Search Radius	Site	0 – 1/8 mile	1/8 – ¼ mile	¼ - ½ mile	½ - 1 mile	< 1 MILE
(Underground Storage Tanks)	mile						
State ASTs (Aboveground Storage Tanks)	0.375 mile	No	0	0	0	NR	NR
State & TRIBAL BROWNFIELDS	0.625 mile	No	0	0	0	0	NR
US BROWNFIELDS	0.625 mile	No	0	0	0	0	NR
HIST LF (Inactive Solid Waste Facilities)	0.625 mile	No	0	0	1	0	NR
US CDL (Clandestine Drug Labs)	0.125 mile	No	0	NR	NR	NR	NR
DEL SHWS (Delisted List of Contaminated Sites)	1.125 mile	No	0	0	0	1	0
DRYCLEANERS (Dry-cleaning Establishment)	0.375 mile	No	0	0	0	NR	NR
NPDES (Active National Pollutant Discharge Elimination System)	0.125 mile	No	0	NR	NR	NR	NR
AIRS (Permit and Emissions Inventory Data)	0.125 mile	No	0	NR	NR	NR	NR
BEA (Baseline Environmental Assessment Database)	0.625 mile	No	0	2	2	0	NR

4.4.1 Site

The Site was identified on the following databases searched by EDR: ERNS, UST, LUST, MLTS, SHWS, RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-LQG, US INST CONTROL, TRIS, FINDS and MANIFEST. Information was taken from a previous investigation of the Site and information provided by EDR.

660 South Boulevard East (the Site) is listed on the ERNS database. The ERNS database records and stores information on reported releases of oil and hazardous substances. On January 16, 1991 a waste line at the Site leading to the water treatment plant froze and ruptured spilling soluble oil and water. On January 8, 1991 industrial process water was spilled from the power house. On December 6, 1990 gasoline was discovered in storm sewers from an unknown source and cause. On March 28, 1988 Freon 12 was released to the air due to a hole in the internal transmission line.

GMC Truck & Coach Division Pontiac East (the Site) is listed at 660 South Boulevard East in Pontiac, Michigan. The Site is listed on the RCRA-TSDF database. The RCRA-TSDF database provides access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and Hazardous and Solid Waste Amendments (HSWA) of 1984. Historical waste handled includes ignitable hazardous waste, corrosive hazardous waste, lead impacted waste, benzene impacted waste, and methyl ethyl ketone impacted waste. The Site has received notices of violations. The Site is listed on the CERC-NFRAP database. The CERC-NFRAP database indicates sites that have been removed and archived from the inventory of CERCLIS sites. The Site is listed on the CORRACTS database. The CORRACTS database identifies hazardous waste handlers with RCRA corrective action activity. The Site is listed on the RCRA-LQG database. The RCRA-LQG database lists the Site as a large quantity generator of hazardous waste with EPA ID number MID005356902. The Site is listed on the US INST CONTROL database. The US INST CONTROL database is a listing of sites with institutional controls in place. The Site is listed on the TRIS database. The TRIS database identifies facilities which release toxic chemicals to the air, water and land is reportable quantities under SARA Title III Section 313. The Site is listed on the FINDS database. The FINDS database contains both facility information and 'pointers' to other sources that contain more detail. The Registry ID number is 110000404795. The Site is listed on the MANIFEST database. The MANIFEST database lists hazardous waste manifest information.

General Motors Corp. (the Site) is listed at 660 South Boulevard East in Pontiac, Michigan. The Site is listed on the MLTS database. The MLTS database contains sites which possess or use radioactive materials and which are subject to NRC licensing requirements. The license number is 21-11448-04. The license date is December 30, 1992.

Pontiac Centerpoint Campus – West Engineering (the Site) is listed at 660 South Boulevard East in Pontiac, Michigan. The Site is listed on the UST database. The UST database indicates that the Site had or has underground storage tanks. The facility ID is 00018277.

Tank ID	Capacity (gallons)	Tank Status	Contents	Installation Date	Removal Date
21-1	12,000	Removed from Ground	Gasoline	5/8/1927	8/27/1991
21-2	12,000	Removed from Ground	Gasoline	5/8/1927	8/26/1991
21-3	12,000	Removed from Ground	Axle Lube	5/8/1927	8/23/1991
21-4	12,000	Removed from Ground	Hazardous Substance	5/8/1927	8/23/1991
21-5	12,000	Removed from Ground	Axle Lube	5/8/1927	8/23/1991
21-6	12,000	Removed from Ground	Diesel	5/8/1927	8/23/1991
21-7	12,000	Removed from Ground	Diesel	5/8/1927	8/22/1991

Tank ID	Capacity (gallons)	Tank Status	Contents	Installation Date	Removal Date
21-8	10,000	Removed from Ground	Diesel	5/8/1951	8/22/1991
29-1	12,000	Removed from Ground	Engine Oil	5/7/1946	9/5/1991
29-2	12,000	Removed from Ground	Engine Oil	5/7/1946	9/4/1991
29-3	12,000	Removed from Ground	Engine Oil	5/7/1946	9/4/1991
29-4	12,000	Removed from Ground	Transmission Oil	5/7/1946	9/4/1991
29-5	12,000	Removed from Ground	Power Steering Oil	5/7/1946	9/4/1991
29-6	12,000	Removed from Ground	Diesel	5/7/1946	9/4/1991
29-7	12,000	Removed from Ground	Transmission Fluid	5/7/1946	9/4/1991
29-8	12,000	Removed from Ground	Hazardous Substance	5/7/1946	9/4/1991
29-9	12,000	Removed from Ground	Gasoline	5/7/1946	9/3/1991
53-1	1,000	Removed from Ground	Used Oil	5/7/1972	9/5/1991
GI-1	12,000	Currently in Use	Gasoline	2/1/1993	-
GI-2	12,000	Currently in Use	Diesel	2/1/1993	-
DYNO-1	2,000	Removed from Ground	Hazardous Substance	1/1/1946	6/1/1994
DYNO-2	2,000	Removed from Ground	Hazardous Substance	1/1/1946	6/1/1994
DYNO-3	2,000	Removed from Ground	Gasoline	1/1/1946	6/1/1994
DYNO-4	2,000	Closed in Ground	Unknown	1/1/1946	1/1/1985
DYNO-5	2,000	Closed in Ground	Unknown	1/1/1946	1/1/1985
DYNO-6	2,000	Removed from Ground	Hazardous Substance	1/1/1946	6/1/1994
DYNO-7	12,000	Removed from Ground	Diesel	1/1/1984	7/7/2005
DYNO-8	12,000	Removed from Ground	Gasoline	1/1/1984	7/7/2005

The Site is also listed on the LUST database. The LUST database indicates leaking underground storage tanks at the Site.

Leak ID	Discovery Date	Substance Released	Release Status	Closed Date
C-1489-85	1/1/1985	Not reported	Open	Not reported
C-0235-90	2/2/1990	Not reported	Open	Not reported
C-0776-90	5/1/1990	Not reported	Open	Not reported
C-0712-85	8/22/1990	Not reported	Open	Not reported
C-1245-91	6/21/1991	Unknown	Open	Not reported
C-1831-91	9/5/1991	Unknown	Open	Not reported
C-2149-91	10/16/1991	Unknown	Closed	3/17/1995
C-2188-91	10/22/1991	Unknown	Closed	4/27/1994
C-1468-92	9/4/1992	Gasoline and Diesel	Closed	12/28/1993
C-1771-92	10/21/1992	Other, Unknown	Open	Not Reported
C-1972-92	11/5/1992	Other	Closed	4/29/1996
C-0202-05	7/20/2005	Diesel and Gasoline	Open	Not Reported

There was a release of diesel and gasoline on July 20, 2005 (Leak Number C-0202-05), an unreported substance on February 2, 1990 (Leak Number C-0235-90), an unreported substance on August 22, 1990 (Leak Number C-0712-85), an unreported substance on May 1, 1990 (Leak Number C-0776090), an unknown substance on June 21, 1991 (Leak Number C-1245-91), gasoline and diesel on September 4, 1992 (Leak Number C-1468-92), an unreported substance on January 1, 1985 (Leak Number C-1489-85), an unknown substance on October 21, 1992 (Leak Number C-1771-92), an unknown substance on September 5, 1991 (Leak Number C-1831-91), a substance described as other on November 5, 1992 (Leak Number C-1972-92), an unknown substance on October 16, 1991 (Leak Number C-2149-91), and an unknown substance on October 22, 1991 (Leak Number C-2188-91).

GM Truck and Bus Pontiac Central (the Site) is listed at 660 South Boulevard East in Pontiac, Michigan. The Site is listed on the SHWS database. The SHWS database lists state hazardous waste sites. The facility status is inactive – no actions taken to address contamination.

4.4.2 Federal Environmental Record Sources

EDR identified one facility within the applicable radius for the Federal databases searched. The databases identified include: CERCLIS-NFRAP and RCRA-SQG. Information in this section was obtained from EDR.

Pontiac Medical Associates Mercury Spill is listed at 44696 Woodward, between 0.5 and 1 mile west of the Site. The CERC-NFRAP listing states that the site ID is 0508263. The action was PRP EMERGENCY REMOVAL started on October 30, 2001 and completed on October 31, 2001. The second action was ARCHIVE SITE completed on July 20, 2005.

St. Joseph Mercy Hospital is listed at 44405 Woodward Avenue, between 0.50 and 1 mile west-southwest of the Site. The facility is listed on the RCRA-SQG database. The facility is a small quantity generator of hazardous waste. The EPA ID number is MID067359240.

Based on the location and regulatory status, this property is not expected to adversely affect the environmental condition of 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 identified facilities within the applicable radius for the State and Tribal databases searched. The databases identified include: LUST, UST, DEL-SHWS, RCRA-NonGen, HIST LF, FINDS, AIRS and BEA. Information in this section was obtained from EDR.

Complete Auto Transit is listed at 525 South Boulevard East, between 0.125 and 0.25 mile north-northwest of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is a non-generator and does not presently generate hazardous waste. The FINDS registry ID is 110008449116.

Office Building is listed at 585 South Boulevard East, between 0.125 and 0.25 mile northeast of the Site. The facility is listed on the BEA database.

City of Pontiac is listed at 650 Plainfield, between 0.125 and 0.25 mile northeast of the Site. The facility is listed on the UST database. The facility ID is 00003594. There were three 1,000-gallon water USTs installed on May 7, 1961 and removed on June 1, 1988. There were two 10,000-gallon water USTs installed on May 7, 1961 and removed on June 1, 1988.

South Boulevard Commercial Building is listed at 655 South Boulevard East, between 0.125 and 0.25 mile northeast of the Site. The facility is listed on the BEA database.

Mult-A-Frame Corporation is listed at 366 South Boulevard East, between 0.25 and 0.50 mile west-northwest of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is a non-generator and does not presently generate hazardous waste. The FINDS registry ID is 110008443693.

Foxpointe Apartments – Dart Properties is listed at 900 ML King Jr. Boulevard South, between 0.25 and 0.50 mile west-southwest of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is a non-generator and does not presently generate hazardous waste. The FINDS registry ID is 110003698035.

Ankerson Resource Systems Inc. is listed at 400 South Boulevard East, between 0.25 and 0.50 mile west-northwest of the Site. The facility is listed on the HIST LF database. The facility ID is 63000002 and the status is inactive.

Gaukler Storage Co is listed at 400 South Boulevard East, between 0.25 and 0.50 mile west-northwest of the Site. The facility is listed on the LUST and UST databases. The facility ID is 00014737. An unknown substance was released on June 9, 1999. The release close date was September 27, 1999. Two 5,000-gallon gasoline USTs were installed on March 6, 1980 and removed on June 9, 1999. One 10,000-gallon diesel UST was installed on March 6, 1980 and removed on April 9, 1999.

Motown Motion Pictures LLC is listed at 1999 Centerpoint Parkway, between 0.25 and 0.50 mile east of the Site. The facility is listed on the BEA database.

Stor-Mor Property is listed at 350-400 South Boulevard East, between 0.25 and 0.50 mile west-northwest of the Site. The facility is listed on the BEA database.

St Joseph Mercy Hospital is listed at 44405 Woodward Avenue, between 0.50 and 1 mile west-southwest of the Site. The facility is listed on the FINDS, LUST, UST, and AIRS databases. The FINDS registry ID is 110003602003. The LUST facility ID is 00016299. Diesel was released on January 10, 2003. The release closed date was May 6, 2003. Diesel was released on September 10, 2002. The release closed date was February 10, 2003. Diesel was released on July 9, 1997. The release closed date was October 7, 1997. Diesel was released on September 24, 2002. The release closed date was December 30, 2002. A 20,000-gallon heating oil UST was installed on April 25, 1967 and removed on December 1, 1992. A 2,000-gallon diesel UST was installed on April 25, 1967 and removed on December 1, 1992. A 6,000-gallon diesel UST was installed on April 24, 1980 and removed on July 10, 1997. A 3,000-gallon diesel UST was installed on July 1, 1997 and removed on August 15, 2002. A 10,000-gallon diesel UST was installed on September 16, 1992 and is currently in use. A 20,000-gallon diesel UST was installed on June 22, 2009 and is currently in use. A 200-gallon diesel UST was installed on June 22, 2009 and is currently in use. The AIRS state registration number is G5066.

Planet Properties is listed at 451 E Wilson Ave, between 0.50 and 1 mile north-northwest of the Site. The facility is listed on the LUST and UST databases. The LUST facility ID is 00036813. Gasoline and an unknown substance were released on October 3, 1994. The release closed date was November 18, 1996. A 1,000-gallon gasoline UST was removed on November 30, 1994. The installation day was not reported. A 10,000-gallon gasoline UST was removed on November 30, 1994. The installation day was not reported.

Howland & Luther Streets between 0.50 and 1 miles west-southwest of the Site is listed on the DEL SHWS database. The facility ID is 63001014 and the status is delisted – no longer meets criteria specified in rules.

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 twenty seven 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 sent a Freedom of Information Act (FOIA) request to the City of Pontiac Fire Department. All fire department records and UST records for all years available were requested. The Pontiac Fire Department sent the sprinkler system hydraulic analysis for the Site. No environmental related records were included within the Fire Department files sent from the Pontiac Fire Department to ARCADIS.

4.5.2 Health Department

On January 20, 2010, ARCADIS sent a Freedom of Information act (FOIA) request to the Oakland County Health Department requesting to review all drill well, septic tank, drinking water, and other environmental records. The Health Department responded on January 26, 2010 stating that they had pollution and refuse filling files. Copies of the files were received on February 5, 2010.

According to a document dated April 24, 1985, 5-10 drums of electroplating sludge were buried in unlined clay bound area. The drums contained cyanide. PCBs were also found in the surface water runoff, not related to the drums. According to the letter GMC Truck & Coach Division disposed of plating wastes and sludge at their east plant between 1950 and 1955. This area is located under gravel parking lot "J" according to the document. This area is not located on the Site. Parking lot "J" is located north of South Boulevard East and north east of the Site.

According to a document dated April 28, 1993, an application for a solid waste disposal area license was submitted to the Michigan Department of Natural Resources. The license was granted to GM North American Truck Platforms, Pontiac East Manufacturing Refuse Plant. This application was submitted under the address 660 South Boulevard East (the Site address) but this area does not appear to be on the Site. This area is located near the Pontiac Assembly Plant, southeast of the Site. The entire Centerpoint Campus was previously included under address 660 South Boulevard East. It appears that this facility has obtained this license multiple times since 1982.

4.5.3 Michigan Department of Environmental Quality

On January 14, 2010, ARCADIS submitted a FOIA request to the MDEQ to obtain all available records regarding LUST, UST, and Part 201 documents for the Site. The MDEQ stated that they had documents within the Storage Tank Unit. The following documents were reviewed on February 4, 2010:

- Confirmed Release Notifications (February 1990 through November 1992)
- MDEQ Acknowledgement of Release Notifications (July 2005)
- Tank Registration Invoices (June 1990 through January 2009)
- UST Inspection Reports (June 1993 through April 2008)
- UST Removal and Closure Notification (October 1990 through June 2005)
- Notification and Registration of USTs (April 1986 through August 2005)

According to the Registration for Underground Storage Tanks form submitted on October 4, 1990, the facility registered 31 USTs at the Site. A follow-up notification was sent to the MDEQ stating that there are actually only 18 USTs that should be registered. The other 13 USTs were spill protection tanks that were mistakenly registered.

Additionally, ARCADIS searched the MDEQ - Underground and Leaking Underground Storage Tank online databases. The Site was listed on the Underground Storage Tank database as having 28 USTs. There are 9 USTs listed on the database for Site that actually were located at Pontiac Centerpoint Campus – Central according to previous reports (Tank ID 29-1 through 29-9). Two USTs are listed as "currently-in–use" at the Site: a 12,000-gallon gasoline UST and a 12,000-gallon diesel UST. According to documents obtained from the MDEQ, the 12,000-gallon diesel UST is a dual compartment tank that stores diesel and premium gasoline.

The tanks in the following table were listed on the Underground Storage Tank database.

Tank ID	Capacity (gallons)	Tank Status	Description	Contents	Installation Date
21-1	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Gasoline	5/8/1927
21-2	12,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Gasoline	5/8/1927
21-3	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Axle Lube	5/8/1927
21-4	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Hazardous Substance	5/8/1927
21-5	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Axle Lube	5/8/1927
21-6	12,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Diesel	5/8/1927
21-7	12,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Diesel	5/8/1927
21-8	10,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Diesel	5/8/1951
53-1	1,000	Removed from Ground	Asphalt Coated or Bare Steel	Used Oil	5/7/1972
GI-1	**12,000**	**Currently in Use**	**Double-Walled Composite (Steel w/Fiberglass)**	**Gasoline**	**2/1/1993**
GI-2	**12,000**	**Currently in Use**	**Double-Walled Composite (Steel w/Fiberglass)**	**Diesel**	**2/1/1993**
DYNO-1	2,000	Removed from Ground	Epoxy Coated Steel	Hazardous Substance	1/1/1946
DYNO-2	2,000	Removed from Ground	Epoxy Coated Steel	Hazardous Substance	1/1/1946
DYNO-3	2,000	Removed from Ground	Epoxy Coated Steel	Gasoline	1/1/1946
DYNO-4	2,000	Closed in Ground	Unknown	Unknown	1/1/1946
DYNO-5	2,000	Closed in Ground	Unknown	Unknown	1/1/1946
DYNO-6	2,000	Removed from Ground	Epoxy Coated Steel	Hazardous Substance	1/1/1946
DYNO-7	12,000	Removed from Ground	Double-Walled Fiberglass Reinforced Plastic	Diesel	1/1/1984
DYNO-8	12,000	Removed from Ground	Double-Walled Fiberglass Reinforced Plastic	Gasoline	1/1/1984

The following table lists the status of leak identification numbers listed on the Leaking Underground Storage Tank database. Two of the leak identification numbers listed on the database (C-0776-90 and C-2149-91) for the Site were associated with Pontiac Centerpoint Campus – Central and are not included on this table.

Leak ID	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-1489-85	1/1/1985	Not listed	Open	n/a	n/a	n/a
C-0235-90	2/2/1990	Not listed	Open	n/a	n/a	n/a
C-0712-85	8/22/1990	Not listed	Open	n/a	n/a	n/a
C-1245-91	6/21/1991	Unknown	Open	n/a	n/a	n/a
C-1831-91	9/5/1991	Unknown	Open	n/a	n/a	n/a
C-2188-91	10/22/1991	Unknown	Closed	4/27/1994	Type B Evaluation	None
C-1468-92	9/4/1992	Gasoline and Diesel	Closed	12/28/1993	Type B Evaluation	None
C-1771-92	10/21/1992	Other, Unknown	Open	n/a	n/a	n/a
C-1972-92	11/5/1992	Other	Closed	4/29/1996	Tier I Evaluation	None
C-0202-05	7/20/2005	Diesel and Gasoline	Open	n/a	n/a	n/a

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Moriah Bloom and Ms. Andrea Rayner of ARCADIS visited the Site on January 13, 2010. Mr. Bill Dotson, Facility Security with Motors Liquidation Company and Mr. Ralph DeNio, Property Manager, accompanied Ms. Bloom and Ms. Rayner during the Site visit. The weather at the time of ARCADIS' investigation was cool and sunny, with a temperature of approximately 30 degrees Fahrenheit. ARCADIS inspected accessible areas of the Site buildings and the exterior grounds.

ARCADIS had no access limitation to the Site, however, visual inspection limitations were encountered during the reconnaissance activities since approximately 6 inches of snow was present on the ground at the Site.

5.2 Current Site Use

The Site currently consists of a 580,000 square-foot building, asphalt-paved parking areas, and vegetated landscaped areas. The Site became idle on November 25, 2009 and was decommissioned on December 23, 2009.

The Site occupies 79 acres. The Site is bound to the north by South Boulevard, to the west by Martin Luther King, Jr. Boulevard, to the south by a Grand Trunk Western Railroad easement, and to the east by Ring Road. In 1991 it was subdivided from the Pontiac Centerpoint Business Campus that included more than 60 manufacturing buildings on over 400 acres.

5.3 Site Observations

5.3.1 Underground Storage Tanks (USTs)

ARCADIS observed evidence of USTs on the Site by the fueling area on the north side of Building 34/52. An alarm was going off during the Site visit. The alarm appeared to be due to low fuel according to the system status report printed out. Based on the system status report there appears to be one 12,000-gallon regular gasoline tank, one 6,000-gallon premium gasoline tank, and one 6,000-gallon diesel tank. The tanks are located on the northeast side of the Site, outside Building 34/52. The tanks were used for vehicle fueling. Refer to Section 4.1.1 for a discussion of the remedial activities associated with the former USTs at the Site and Section 4.5.3 for a complete table of the USTs formerly located at the Site.

Ralph DeNio, the Property Manager, informed ARCADIS during the Site visit that the diesel UST in the dispenser area north of Building 34/52 had accidently been filled with gasoline recently. The gasoline was siphoned off but the diesel tank was compromised by the mixture.

5.3.2 Aboveground Storage Tanks (ASTs)

ARCADIS observed ASTs within the Pump Rooms at the Site. The Site building has three Pump Houses, which contain multiple hydraulic pumps and large containments (unknown capacity size). The large containments contain hydraulic oil which was pumped via above ground hoses to the various testing facilities, testing chambers, and the dynamometer cells. During ARCADIS' site reconnaissance, the pumps and containment units still contained hydraulic fluid. No evidence of staining and/or leaking was observed, and the interior floor surface was in good condition.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS observed eight aboveground hydraulic lifts, a hydraulic trash compactor, and multiple drums at the Site. All chemicals and petroleum product containers were collected within Building 52. Building 34/52 has been decommissioned and all chemicals from the decommissioning were collected in Building 52. Chemicals collected during the decommissioning of Pontiac Centerpoint Campus – Central were also stored in Building 52. There were two 55-gallon drums of hazardous waste, two gasoline bowsers, twelve 5-gallon containers of gasoline, and twelve 60-gallon drums of engine oil, transmission oil, power steering oil, windshield washer concentrate and gear oil, and various containers (5 gallons or less) of chemicals. The drums were observed to be in good condition. There was evidence of a spill on the concrete floor near some of the drums.

5.3.4 Unlabeled Drums/Containers

ARCADIS did not observe unlabeled drums or containers at the Site.

5.3.5 Stained Soil or Pavement

There was no significant staining observed outdoors on the soil or pavement. There was approximately 6 inches of snow covering the ground and soil/pavement could not easily be seen.

5.3.6 Stains or Corrosion

Some staining was observed in the test areas and near equipment within Building 34 at the Site. The concrete floor was observed to be in good condition with no seams or cracks in the vicinity of the staining.

5.3.7 Stressed Vegetation

ARCADIS did not observe evidence of stressed vegetation. There was approximately 6 inches of snow covering the ground and vegetation could not easily be seen.

5.3.8 Polychlorinated Biphenyls (PCBs)

The former Coal Pile Storage Area was located south of Building 34/52 at the south end of the south parking lot. The former Coal Pile Storage Area was historically used to manage power house coal unloaded from railroad cars. The Coal Pile Storage Area was identified as a suspected source of PCBs (suspected to have resulted from a shipment of contaminated coal) identified in October 12, 1977 in stormwater runoff to a storm sewer that emptied into a tributary of the Clinton River. Energy conversion at the Facility from coal to natural gas was completed on August 4, 1997. As a result, the Powerhouse, together with the former Coal Pile Storage Area, underwent decommissioning and demolition activities.

ARCADIS did not observe any evidence of the Coal Pile Storage Area during the Site visit. There was approximately 6 inches of snow covering the ground and the pavement could not easily be seen.

Consistent with the April 29, 1988 meeting between U.S. EPA and GM, the former Coal Pile Storage Area was addressed as an Interim Measure (IM) to support on-going redevelopment at the Facility. The results of the IM investigation were presented in the RCRA Interim Measure Investigation and Design Report - Former Coal Pile Storage Area (CRA, 1999) and the Addendum to RCRA Interim Measure Investigation and Design Report - Former Powerhouse Coal Pile Storage Area (CRA, 2000). The IM investigation results showed that concentrations of all detected constituents were below Michigan Act 451, Part 201 cleanup criteria applicable at that time. U.S. EPA agreed that no further action was necessary for this area in correspondence dated June 15, 2000.

No exceedances of Michigan Act 451, Part 201 cleanup criteria were identified and, therefore, no further action is required at this AOI. However, because this SWMU/AOI was located within GM's active operations, institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source, were proposed and implemented as a Corrective Measure.

5.3.9 Solid Waste/Dumping

ARCADIS did observe evidence of dumping of solid waste at the Site.

Various materials such as containers, dumpsters, and cylinders were stored south of Building 34/52.

5.3.10 Site Drainage

Stormwater at the Site flows to storm drains located in the parking lot. The storm drains flow to the Oakland County Municipal Sewer System. No evidence of staining was observed in the vicinity of the storm drains.

5.3.11 Pits, Ponds, Lagoons and Pools of Liquid

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

5.3.12 Wastewater

Wastewater discharged to the municipal sanitary sewer system includes sanitary wastewater.

5.3.13 Wells

ARCADIS did not observe dry wells, irrigation wells, injection wells, or abandoned wells at the Site with the exception of several monitoring wells used to monitor the former Building 33 Free Product Area located beneath the former Building 33 location north of the main Site building (Building 34/52). Light Non-Aqueous Phase Liquid (LNAPL) is present at a depth of approximately 15 to 20 feet bgs. The LNAPL is the result of a historical gasoline release. The source of the gasoline release is believed to be an underground fuel line that was discovered to be leaking in 1968/1969. The fuel line supplied a fuel island south of Building 33. Long Term Groundwater Monitoring is required by U.S. EPA at AOI #53 (as discussed in Section 4.1.1)

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

No other significant Site observations were noted at the time of the site visit.

6.0 INTERVIEWS

6.1 Interview with Owner/Key Site Manager

ARCADIS provided a questionnaire to Mr. Robert Hare, Site Manager for MLC.

6.2 Site Occupants

The Site was unoccupied. Site security and the building manager continue to work out of Building 34 at the Site. ARCADIS conducted interviews with Site Security, Mr. Bill Dotson and the Property Manager, Mr. Ralph DeNio. Information obtained during these interviews is included in the applicable sections of this report.

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 other individuals were interviewed as a part of the Phase I ESA 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

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 660 South Boulevard East, City of Pontiac (Oakland County), Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

This assessment has revealed the following RECs associated with the Site:

- The Site has historically been used as an industrial facility from 1927 through the 2000s. Pontiac Centerpoint Campus – West Engineering and GMC Truck & Coach Division Pontiac East, was formerly owned and operated by General Motors Company. According to available information, several on-going environmental investigations are occurring at the Site that involves both MDEQ and the US EPA oversight. The following AOIs are identified as RECs:
- AOI #50—DUCO Stores: Fuel Line Area completed (NFA); UST Area remediation and final assessment sampling completed. NFA with Institutional Controls is anticipated. According to a conversation with the CRA Project Manager, Sylvie Eastman, on February 3, 2010, a round of groundwater monitoring was conducted in November 2009. CRA is preparing a report with 2 rounds of clean groundwater sample results. The November 2009 sampling event may be the last sampling event and the results could be sufficient for closure for this area.
- AOI #52—Building 35 Tank Farm: Remediation completed. NFA with Institutional Controls is anticipated. Supplemental investigation was conducted and additional year of groundwater monitoring was completed in March 2008. On February 3, 2010 the CRA Project Manager for the Site was contacted by ARCADIS. The CRA Project Manager for the Site stated that the deed restriction was completed by MLC. There is a six week process to complete closure for this area.

- AOI #53—Building 33 Free Product Study Area: LNAPL Area 2 passive recovery completed/discontinuation approved by U.S. EPA during May 2009. LNAPL Area 1 Multiphase Extraction (MPE) and post-cleanup (closure) sampling completed. CRA submitted analytical results and a NFA request to the EPA and received an e-mail from the Case Officer approving the NFA. There is a chance that MDEQ may require additional monitoring since there is still LNAPL in the ground, however, since it is not a LUST site additional monitoring may not be necessary. LTM (10 wells sampled semiannually) required through 2010. NFA anticipated with Institutional Controls for this area.
- AOI #49/SWMU #32: Former Coal Pile Storage Area: The former Coal Pile Storage Area was located south of Building 34 at the south end of the south parking lot. The former Coal Pile Storage Area was historically used to manage power house coal unloaded from railroad cars. The Coal Pile Storage Area was identified as a suspected source of polychlorinated biphenyls (PCBs) (suspected to have resulted from a shipment of contaminated coal) identified in October 12, 1977 in stormwater runoff to a storm sewer that emptied into a tributary of the Clinton River. Energy conversion at the Facility from coal to natural gas was completed on August 4, 1997. As a result, the Powerhouse, together with the former Coal Pile Storage Area, underwent decommissioning and demolition activities. No exceedances of Michigan Act 451, Part 201 cleanup criteria were identified and, therefore, no further action is required at this AOI. However, because this SWMU/AOI was within GM's active operations, institutional controls, including a land use restriction for commercial/industrial use and a restriction preventing shallow groundwater from being used as a drinking water source, were proposed and implemented as a Corrective Measure for this AOI/SWMU.
- The east adjacent property, Pontiac Centerpoint Campus – Central, beyond Ring Road, operated as an industrial facility from 1937 through 1995. Operations at the Centerpoint Campus began in 1927 with the production of medium and heavy duty truck and buses at the former Pontiac Central Manufacturing and Assembly Plant on the northwest corner of the Campus and the Assembly Plant Facility. Subsequent operations were expanded. Portions of these operations were on the Centerpoint Campus – Central. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was environmentally decommissioned, and the area was redeveloped as the GM Truck Product Center and the Centerpoint Business Campus, which was a large scale industrial and commercial business development. Based on the distance of this property to the Site and the current status of the AOIS/SWMUs (open and under investigation), there is a potential for the Site to have been adversely impacted by activities occurring on the east adjacent property.
- A series of railroad tracks were formerly adjacent to the south side of the Site. Various unknown materials were transported on the tracks and potential impacts from releases are unknown. In addition, railroad ties were typically preserved with creosote, which over time has the potential for impacting the surrounding surfaces.

7.2 Historical Recognized Environmental Conditions

This assessment did not reveal any historical RECs (HRECs) associated with the site.

7.3 De Minimis Conditions

De minimis environmental conditions at the Site include the following:

- The UST tank alarms were going off for the diesel and gasoline tanks located in the dispenser area north of Building 34/52. Based on the system status report obtained, it appears that it was a low fuel alarm.
- Ralph DeNio, the Property Manager, informed ARCADIS during the Site visit that the diesel UST in the dispenser area north of Building 34/52 had accidently been filled with gasoline recently. The gasoline was siphoned off but the diesel tank was compromised by the mixture.
- There was slight staining on the ground in the test areas and by equipment. The floor surface appeared to be in good condition with no cracks, seems or floor drains within the vicinity.

8.0 CONCLUSIONS

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 660 South Boulevard East, City of Pontiac (Oakland County), Michigan. Any exceptions to, or deletions from, this practice are described in Section 9 of this report.

This assessment has revealed the following RECs associated with the Site:

- The Site has historically been used as an industrial facility from 1927 through the 2000s. Pontiac Centerpoint Campus – West Engineering and GMC Truck & Coach Division Pontiac East, was formerly owned and operated by General Motors Corporation (renamed Motors Liquidation Company). Several on-going environmental investigations are occurring at the Site that involves both MDEQ and the US EPA oversight, including a LUST investigation and CORRACTS. The AOIs identified as RECs include: AOI #50 – DUCO Stores, AOI #52 – Building 35 Tank Farm, AOI #53 Building 33 Free Product Study Area, and AOI #49/SWMU #32 – Former Coal Pile Storage Area.
- A series of railroad tracks were formerly adjacent to the south side of the Site. Various unknown materials were transported on the tracks and potential impacts from releases are unknown. In addition, railroad ties were typically preserved with creosote, which over time has the potential for impacting the surrounding surfaces.
- The east adjacent property, Pontiac Centerpoint Campus – Central, beyond Ring Road, operated as an industrial facility from 1937 through 1995 and is identified as an off-site REC.

9.0 DEVIATIONS/DATA GAPS

There were three deviations/data gaps:

- ARCADIS was not able to interview anyone associated with on-site operations because the Site had been decommissioned. ARCADIS did not identify any deviations or data gaps;
- ARCADIS has not received answers to the questionnaire submitted to Bob Hare; and
- It is unclear whether the wastewater treatment plant located south east of the Site is a part of the Site's property or Pontiac Assembly Plant's property. Based on correspondence from MLC the wastewater treatment plant should be included with the Pontiac Assembly Plant. Therefore, the wastewater treatment plant was not included in this Environmental Site Assessment.

10.0 ADDITIONAL SERVICES

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

11.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

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.



for:

Moriah Bloom
Environmental Specialist II



Douglas M. Lindsay, PG, LSP
Senior Geologist

12.0 REFERENCES

City of Pontiac

- Fire Department

Oakland County

- Health Department
- Commercial and Industrial Property Profile (http://www.oakgov.com/accessok/products/cip.html)

State of Michigan

- Michigan Department of Natural Resources and the Environment Storage Tank Unit
- Michigan Department of Natural Resources and Environment Underground Storage Tank and Leaking Underground Storage Tank Database

Reports, Plans and Other Documents Reviewed:

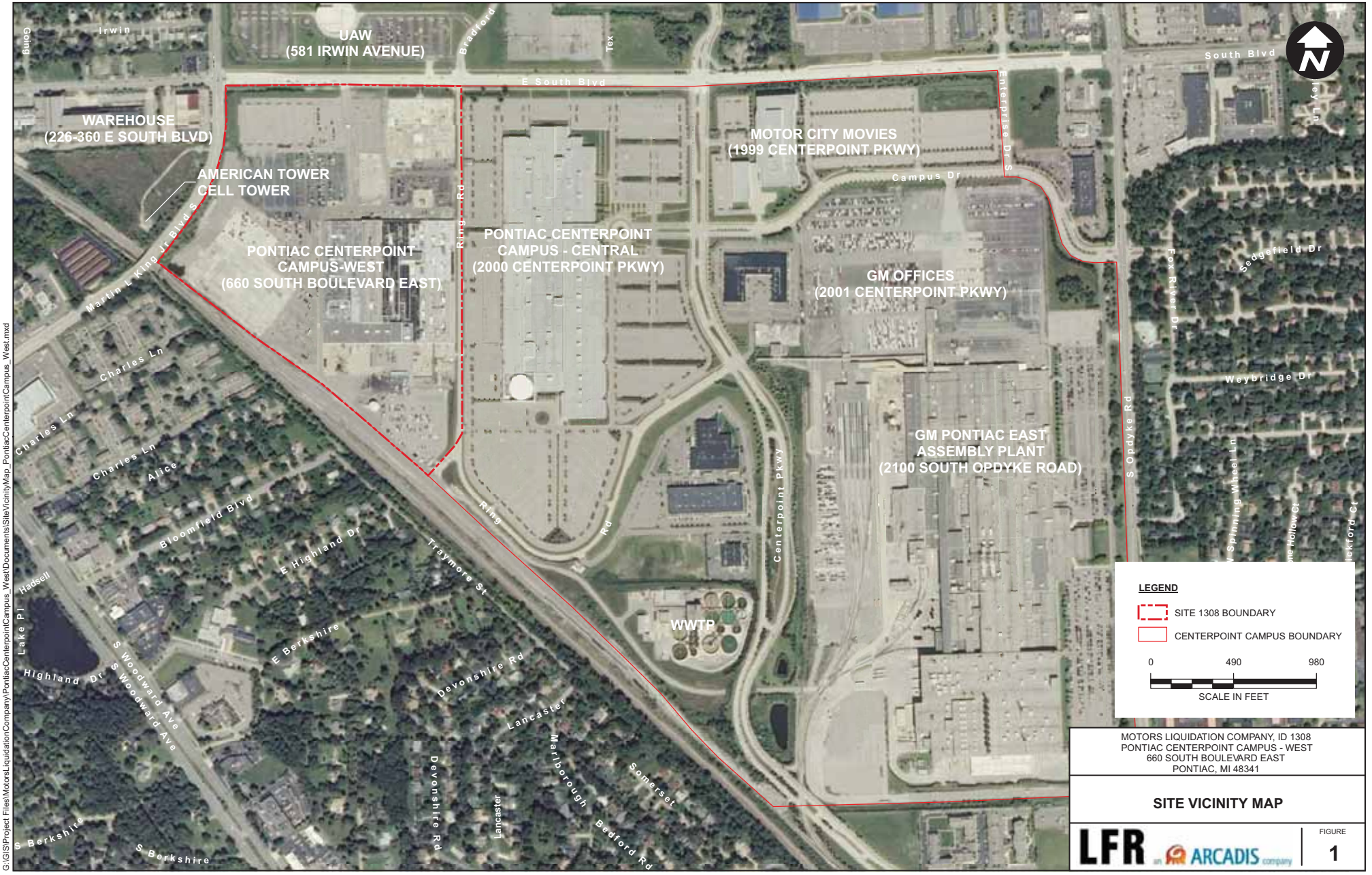
EDR:

- *The EDR Aerial Photo Decade Package,* Inquiry Number 2672069.5, January 6, 2010, PCC West, 660 South Boulevard East, Pontiac, MI 48341.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2672069.2s, January 7, 2010, PCC West, 660 South Boulevard East, Pontiac, MI 48341.
- *The EDR Sanborn Map Report*, Inquiry Number 2672069.3, January 6, 2010, PCC West, 660 South Boulevard East, Pontiac, MI 48341.
- *The EDR Topographic Map Report*, Inquiry Number 2672069.4, January 6, 2010, PCC West, 660 South Boulevard East, Pontiac, MI 48341.
- *The EDR City Directory Abstract,* Inquiry Number 2672069.6, January 8, 2010, PCC West, 660 South Boulevard East, Pontiac, MI 48341.

Previous Environmental Reports Reviewed:

- Remediation Cost Estimate Summary completed by ARCADIS dated October 27, 2009.
- Corrective Measures Proposal completed by Conestoga-Rovers & Associates dated April 21, 2006.
- Corrective Measures Implementation Report – Building 33 completed by Conestoga-Rovers & Associates dated August 16, 2009.
- Long Term Monitoring Plan completed by Conestoga-Rovers & Associates dated November 23, 2007.
- Post-MPE Evaluation of Potential Exposures completed by Conestoga-Rovers & Associates dated April 3, 2009.
- RCRA Facility Report completed by Conestoga-Rovers & Associates dated October 21, 2005.
- Draft Dyno Tank Closure Report completed by Conestoga-Rovers & Associates dated March 24, 2009.
- DUCO Stores Supplemental Work Plan completed by Conestoga-Rovers & Associates dated April 21, 2009.

FIGURES



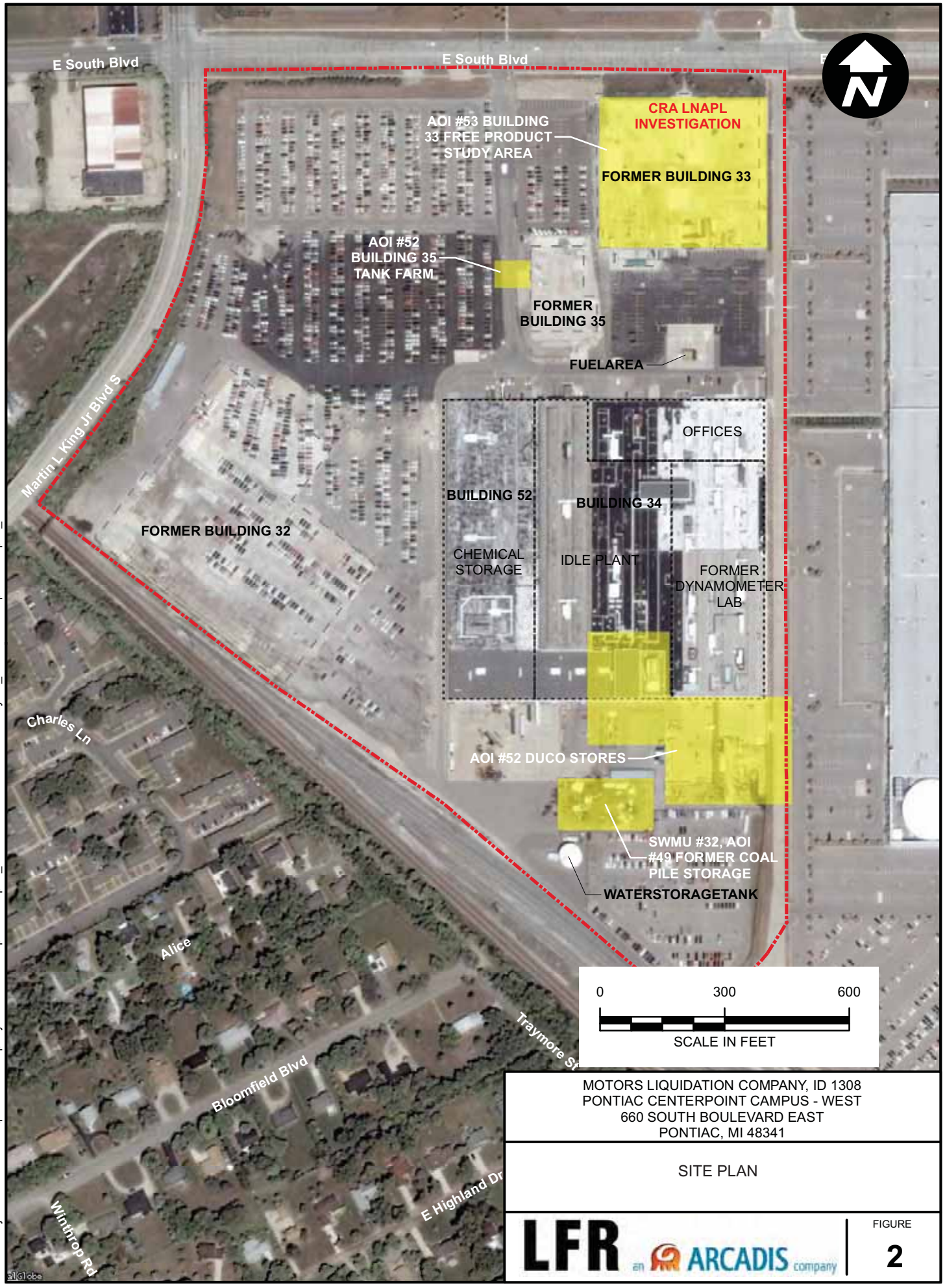
MOTORS LIQUIDATION COMPANY, ID 1308
PONTIAC CENTERPOINT CAMPUS - WEST
660 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

SITE VICINITY MAP

LFR an ARCADIS company

FIGURE 1

PROJECT NUMBER: BN015317.0015.00001
CITY:NOVI DIV/GROUP:ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidationCompany\PontiacCenterpointCampus_West\Documents\SiteVicinityMap_PontiacCenterpointCampus_West.mxd



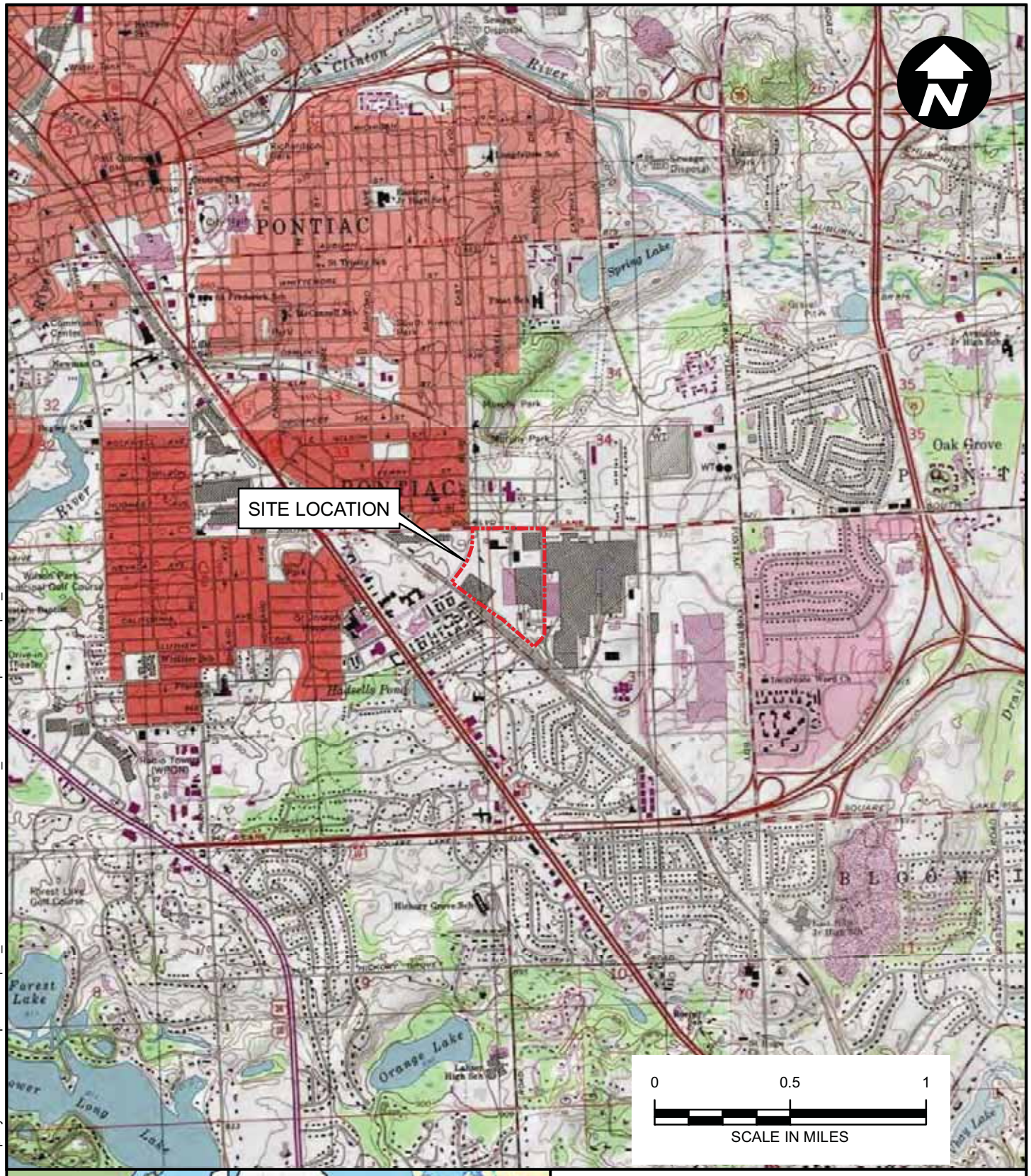
MOTORS LIQUIDATION COMPANY, ID 1308
PONTIAC CENTERPOINT CAMPUS - WEST
660 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

SITE PLAN

LFR an ARCADIS company

FIGURE 2

PROJECT NUMBER: BN015317.0018.0001
CITY:NOVI DIV/GROUP:ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidationCompany\PontiacCenterpointCampus_West\Documents\SiteAerialLayout_PontiacCenterpointCampus_West.mxd





MOTORS LIQUIDATION COMPANY, ID 1308
PONTIAC CENTERPOINT CAMPUS - WEST
660 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

USGS TOPOGRAPHIC MAP

LFR an ARCADIS company

FIGURE 3

PROJECT NUMBER: BN015317.0018.0001
CITY:NOVI DIV/GROUP:ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidationCompany\PontiacCenterpointCampus_West\Documents\SiteLocation_PontiacCenterpointCampus_West.mxd

APPENDIX A

User Questionnaire

LFR ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: March 9, 2010
Site Name: Pontiac Centerpoint Campus – West Your Name: Robert W. Hare
Site Location: Pontiac, MI Your Title: Project Manager
Relationship to Site: ☐ Owner ☐ Occupant ☐ Purchaser X Other

Length of Time Associated with Site: 6 years

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

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

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain: _____

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

   X Yes ☐ No ☐ Unknown ☐ N/A

   If Yes, please explain: See Corrective Action Documentation _____

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

LFR

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

   X Yes ☐ No ☐ Unknown ☐ N/A

   If Yes, please explain: Project Manager for the Corrective Action. See Corrective Action documents.

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?

   X Yes ☐ No ☐ Unknown ☐ N/A

   If Yes, please explain: See Corrective Action Documentation_____

   _____

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

   ☐ Yes ☐ No X Unknown ☐ N/A

   If Yes, please explain:_____

   _____

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

   ☒ Yes ☐ No ☐ Unknown ☐ N/A

   If Yes, please explain: See Corrective Action Documentation_____

   _____

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

   ☒ Yes ☐ No ☐ Unknown ☐ N/A

   If Yes, please explain: See Corrective Action Documentation_____

   _____

LFR

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

☐ Yes ☐ No ☒ 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: See Corrective Action Documentation _____

_____

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

PCC West
660 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672069.5
January 06, 2010

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

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

EDR Aerial Photo Decade Package

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

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

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Date EDR Searched Historical Sources:

Aerial Photography January 06, 2010

Target Property:

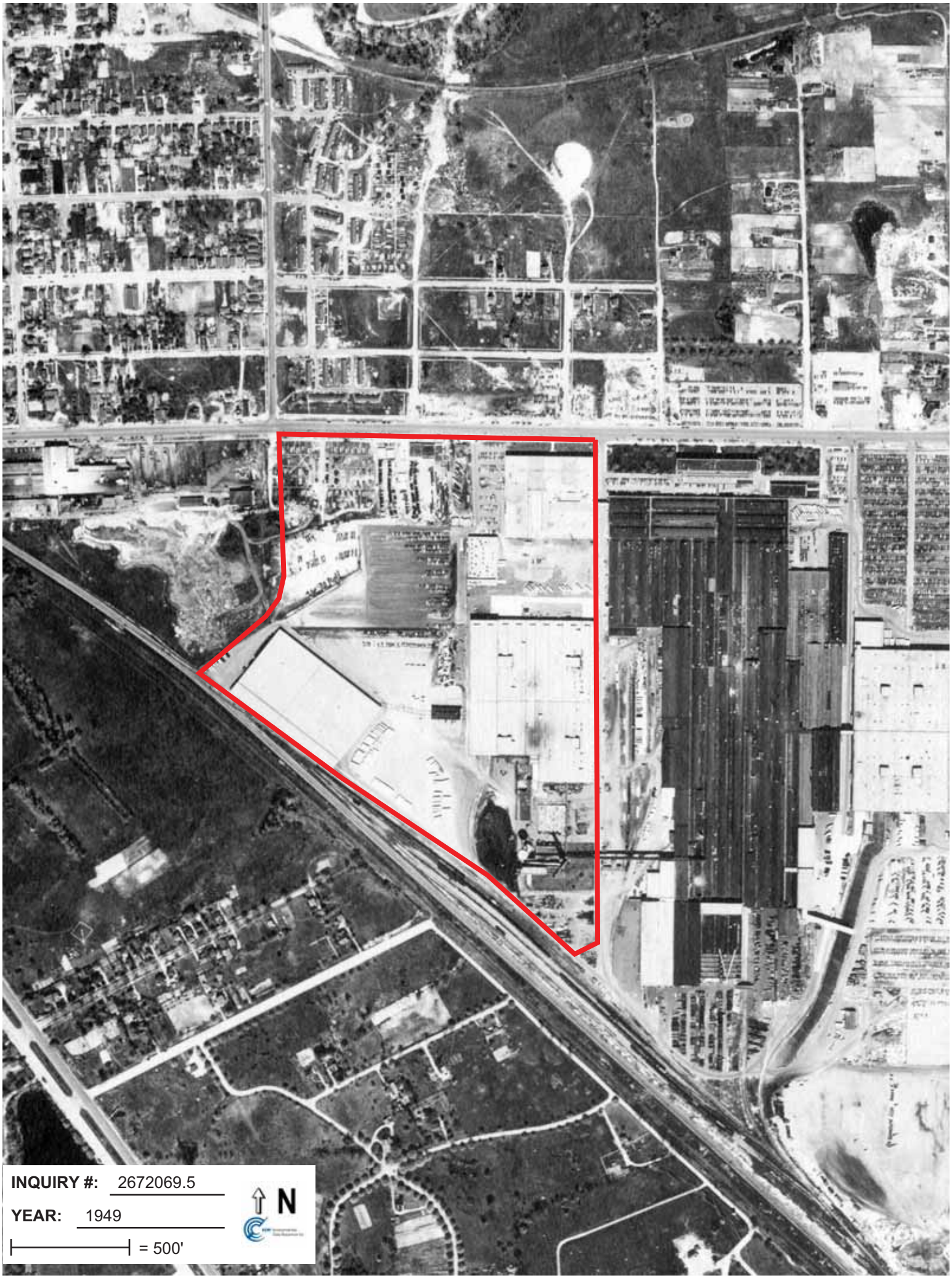
660 South Boulevard East

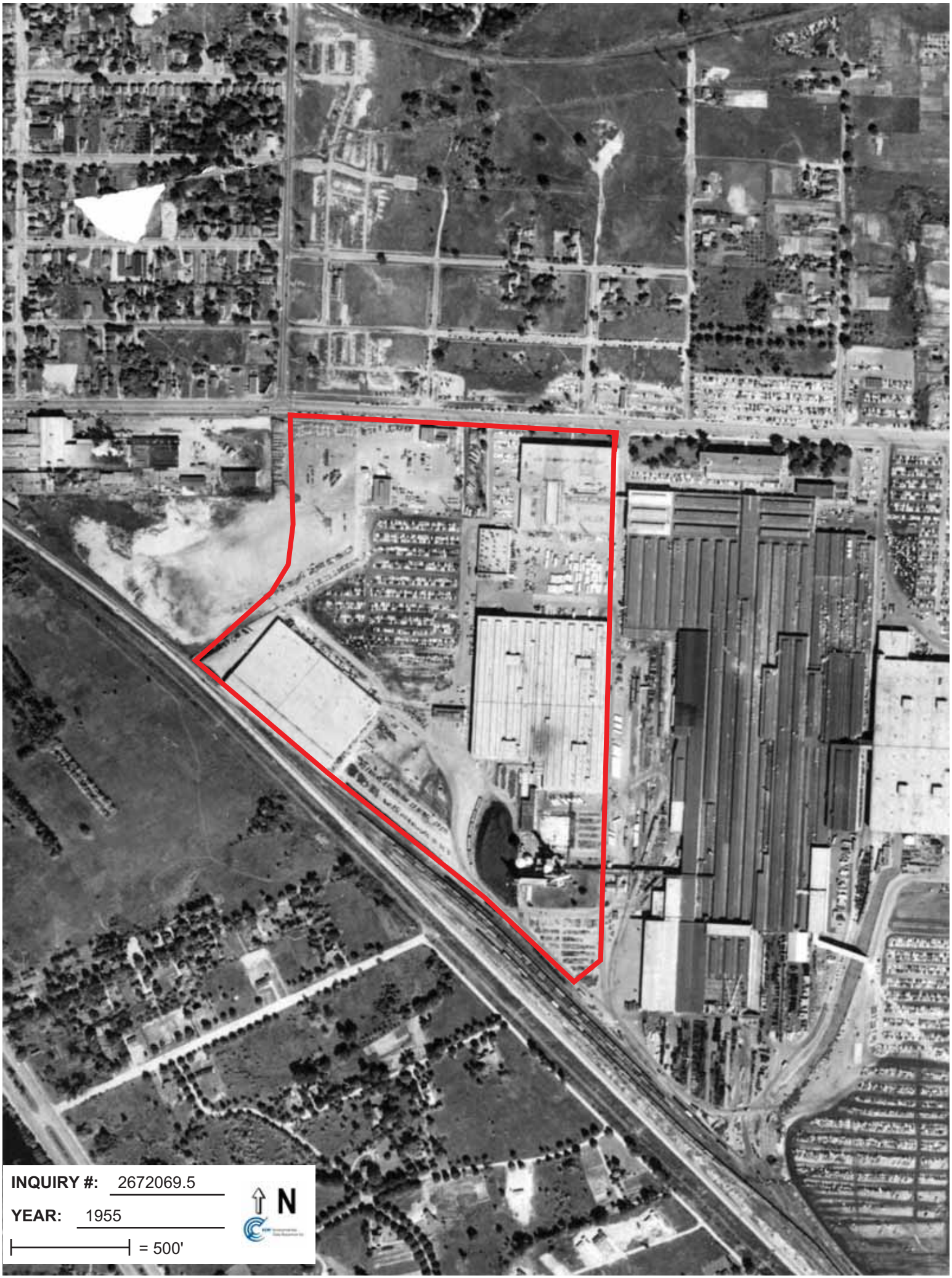
Pontiac, MI 48341

Year	*Scale*	*Details*	*Source*
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1940	Aerial Photograph. Scale: 1"=500'	Flight Year: 1940	AAA
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Detroit Edison
1955	Aerial Photograph. Scale: 1"=500'	Flight Year: 1955	CSS
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

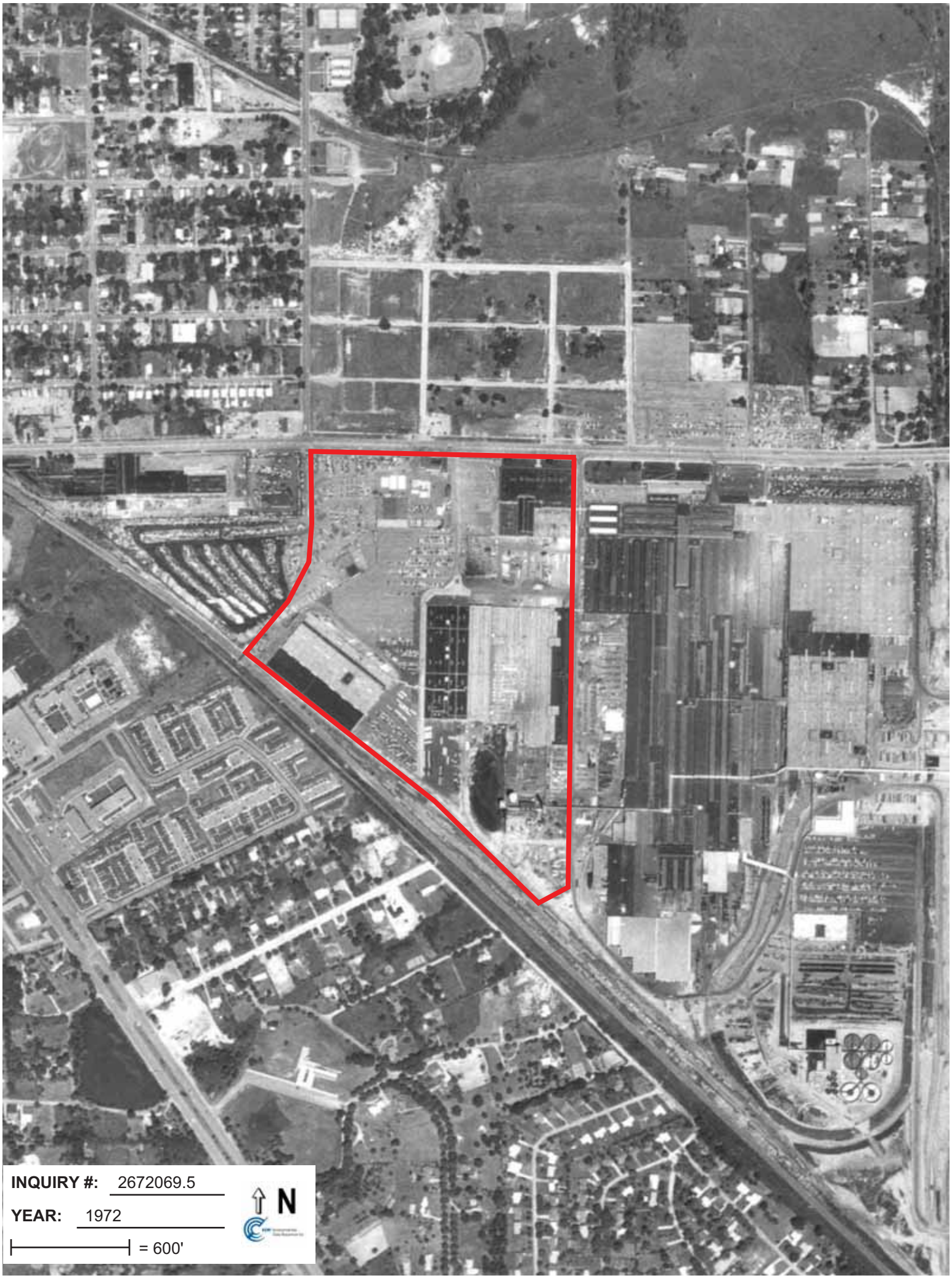

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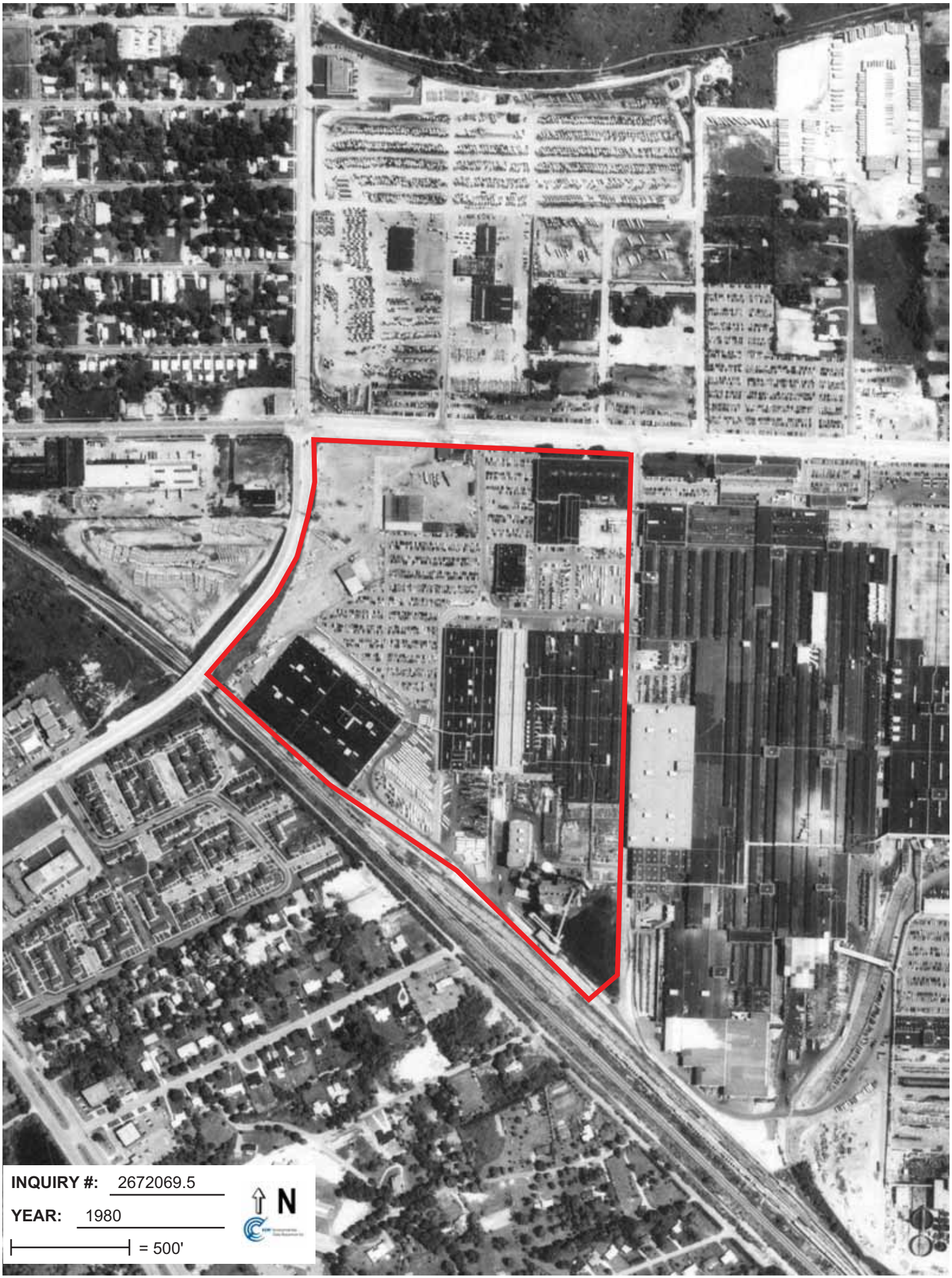

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INQUIRY #: 2672069.5
YEAR: 1949
= 500'
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INQUIRY #: 2672069.5
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N


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YEAR: 1993
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N


INQUIRY #: 2672069.5
YEAR: 2000
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N


INQUIRY #: 2672069.5
YEAR: 2005
= 604'
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Sanborn Maps

PCC West
660 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672069.3
January 06, 2010

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

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

Certified Sanborn® Map Report

1/06/10

Site Name:
PCC West
660 South Boulevard East
Pontiac, MI 48341

Client Name:
ARCADIS U.S., Inc.
28550 Cabot Drive
Novi, MI 48377

EDR Inquiry # 2672069.3

Contact: Moriah Bloom

EDR® Environmental Data Resources Inc

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

Certified Sanborn Results:

Site Name: PCC West
Address: 660 South Boulevard East
City, State, Zip: Pontiac, MI 48341
Cross Street:
P.O. # LFR Phase I for PCC West
Project: CO000LFR.000S.00001
Certification # 013F-4FD3-ABB4

Sanborn® Library search results
Certification # 013F-4FD3-ABB4

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

PCC West
660 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672069.6
January 08, 2010

The EDR-City Directory Abstract



Environmental Data Resources Inc

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

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Executive Summary

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2009 Enhancements to EDR City Directory Abstract

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.

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

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

660 South Boulevard East
Pontiac, MI 48341

FINDINGS DETAIL

Target Property research detail.

Year	Uses	Source
2009	General Motors Corp.	Bresser's Criss-Cross Directory
	GM Truck Group	Bresser's Criss-Cross Directory
2004	GM Truck Group Dacor Accounts Pay.	Bresser's Criss-Cross Directory
	GM Truck Group Pontiac Assembly	Bresser's Criss-Cross Directory
1999	GM Truck Group Pontiac	Bresser's Criss-Cross Directory
1994	N. Amer. Truck Pltfm.	Bresser's Criss-Cross Directory
1989	GMC Truck & Coach Div.	Bresser's Criss-Cross Directory
	Truck & Bus Group	Bresser's Criss-Cross Directory
1979	GMC Truck & Coach Div.	Bresser's Criss-Cross Directory
	JA Fredman Co.	Bresser's Criss-Cross Directory
	Limbach Co.	Bresser's Criss-Cross Directory
1973	GMC Truck & Coach Div.	Bresser's Criss-Cross Directory
1962	General Motors Corp. Truck & Coach Div. (auto mfrs.)	Polk's City Directory
1957	General Motors Corp. Truck & Coach Div.	Polk's City Directory
1952	General Motors Corp. Truck & Coach Div.	Polk's City Directory
1945	General Motors Corp. Truck & Coach Div.	Polk's City Directory
	Hertz Driveurself Stations	Polk's City Directory
	Yellow Truck & Coach Mfg. Co.	Polk's City Directory
1939	General Motors Corp. Truck & Coach	Polk's City Directory
	Hertz Driveurself Stations	Polk's City Directory
	Yellow Truck & Coach Mfg. Co.	Polk's City Directory

FINDINGS

ADJOINING PROPERTY DETAIL

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

South Boulevard East

South Boulevard East

Year	Uses	Source
2009	-No Other Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Between Bradford St. & Tex Ave.	Bresser's Criss-Cross Directory
2004	-No Other Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Between Bradford St. & Tex Ave.	Bresser's Criss-Cross Directory
1999	-No Other Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
	-No Other Addresses Listed Between Bradford St. & Tex Ave.	Bresser's Criss-Cross Directory
1994	-No Other Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
1989	-No Other Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
1984	-No Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
1979	-No Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
1973	-No Addresses Listed 600-700 Block South Boulevard East	Bresser's Criss-Cross Directory
1927	-No Addresses Listed Beyond 400 Block South Boulevard East	Polk's City Directory
1922	-No Addresses Listed Beyond 400 Block South Boulevard East	Polk's City Directory

585 South Boulevard East

Year	Uses	Source
2009	E DS	Bresser's Criss-Cross Directory
	General Motors Corp.	Bresser's Criss-Cross Directory
	Pontiac Office Center	Bresser's Criss-Cross Directory

586 South Boulevard East

Year	Uses	Source
1994	Wilco Construction	Bresser's Criss-Cross Directory

FINDINGS

Year	Uses	Source
1989	Wilco Construction	Bresser's Criss-Cross Directory
1973	BF Goodrich Co.	Bresser's Criss-Cross Directory
	Fleet Carrier Corp.	Bresser's Criss-Cross Directory
1962	Fleet Carrier Corp. (trans.)	Polk's City Directory
1957	Fleet Carrier Corp. (trans.)	Polk's City Directory
1952	Fleet Carrier Corp. (trans.)	Polk's City Directory
1945	Fleet Carrier Corp. (trans.)	Polk's City Directory
1939	Fleet Carrier Corp. (trans.)	Polk's City Directory

600 South Boulevard East

Year	Uses	Source
1962	Bauman Restaurant	Polk's City Directory
	US Truck Co., Inc.	Polk's City Directory
1957	Bauman Restaurant	Polk's City Directory
	US Truck Co., Inc.	Polk's City Directory
1952	Bauman Restaurant	Polk's City Directory
	US Truck Co., Inc.	Polk's City Directory
1945	US Truck Co., Inc.	Polk's City Directory
1939	Bauman's Tavern	Polk's City Directory
1931	Bauman's Tavern	Polk's City Directory

633 South Boulevard East

Year	Uses	Source
2004	Phalgun Properties	Bresser's Criss-Cross Directory

651 South Boulevard East

Year	Uses	Source
1939	Residential	Polk's City Directory

661 South Boulevard East

Year	Uses	Source
1962	Corvette Enterprise (whol. jwlry)	Polk's City Directory
1957	Corvette Enterprise (hdw. appl.)	Polk's City Directory
1952	Fine Craft Jewelry Co.	Polk's City Directory
	West Side Van & Stge. Co.	Polk's City Directory
1945	Pontiac City Dog Pound	Polk's City Directory
1939	Pontiac City Dog Pound	Polk's City Directory
1931	Yellow Cab Cafeteria	Polk's City Directory

FINDINGS

700 South Boulevard East

Year	Uses	Source
1994	Baker Concrete	Bresser's Criss-Cross Directory

715 South Boulevard East

Year	Uses	Source
2004	Diversified Glass Corporate Ofcs.	Bresser's Criss-Cross Directory
	Henderson Glass Corporate Ofcs.	Bresser's Criss-Cross Directory

750 South Boulevard East

Year	Uses	Source
1931	General Motors Truck Corp.	Polk's City Directory
	Hertz Driveurself Sales Corp.	Polk's City Directory
	Yellow Truck & Coach Mfg. Co.	Polk's City Directory

Tex Ave.

Tex Ave.

Year	Uses	Source
2009	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
2004	-No Addresses Listed on Tex Ave.	Bresser's Criss-Cross Directory
1994	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
1989	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
1984	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
1979	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory
1973	-No Intersecting Addresses Determined	Bresser's Criss-Cross Directory

628 Tex Ave.

Year	Uses	Source
1962	Residential	Polk's City Directory
1957	Residential	Polk's City 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
Tex Ave.	1999, 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
660 South Boulevard East	1984, 1931, 1927, 1922

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
585 South Boulevard East	2004, 1999, 1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922
586 South Boulevard East	1984, 1979, 1931, 1927, 1922
600 South Boulevard East	1927, 1922
628 Tex Ave.	1952, 1945, 1939, 1931
633 South Boulevard East	1999, 1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922
651 South Boulevard East	1931, 1927, 1922
661 South Boulevard East	1927, 1922
700 South Boulevard East	1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922
715 South Boulevard East	1999, 1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 1931, 1927, 1922
750 South Boulevard East	1927, 1922

Topographic Maps

PCC West
660 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672069.4
January 06, 2010

The EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

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

EDR Historical Topographic Map Report

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

Thank you for your business.
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with any questions or comments.

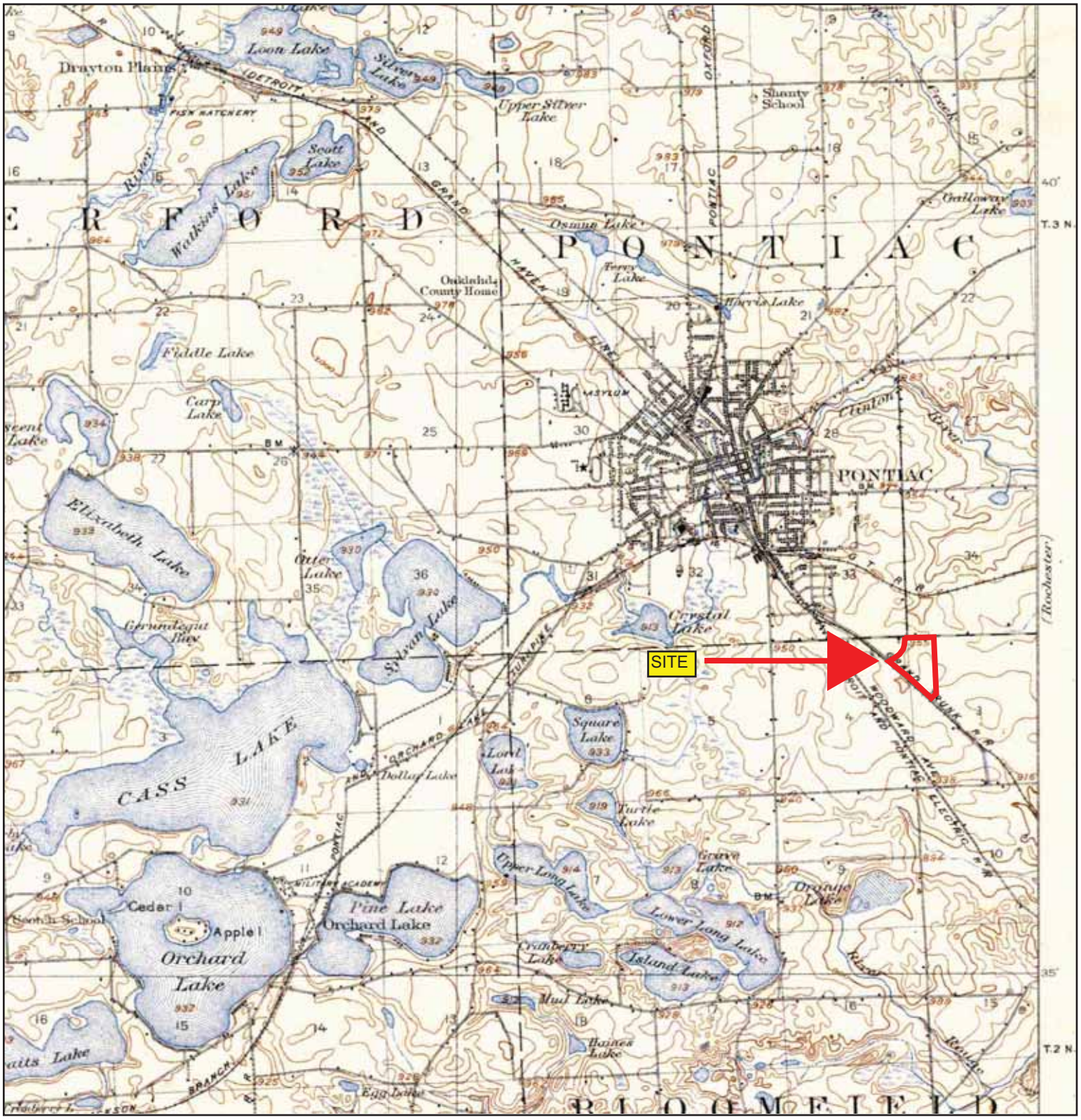
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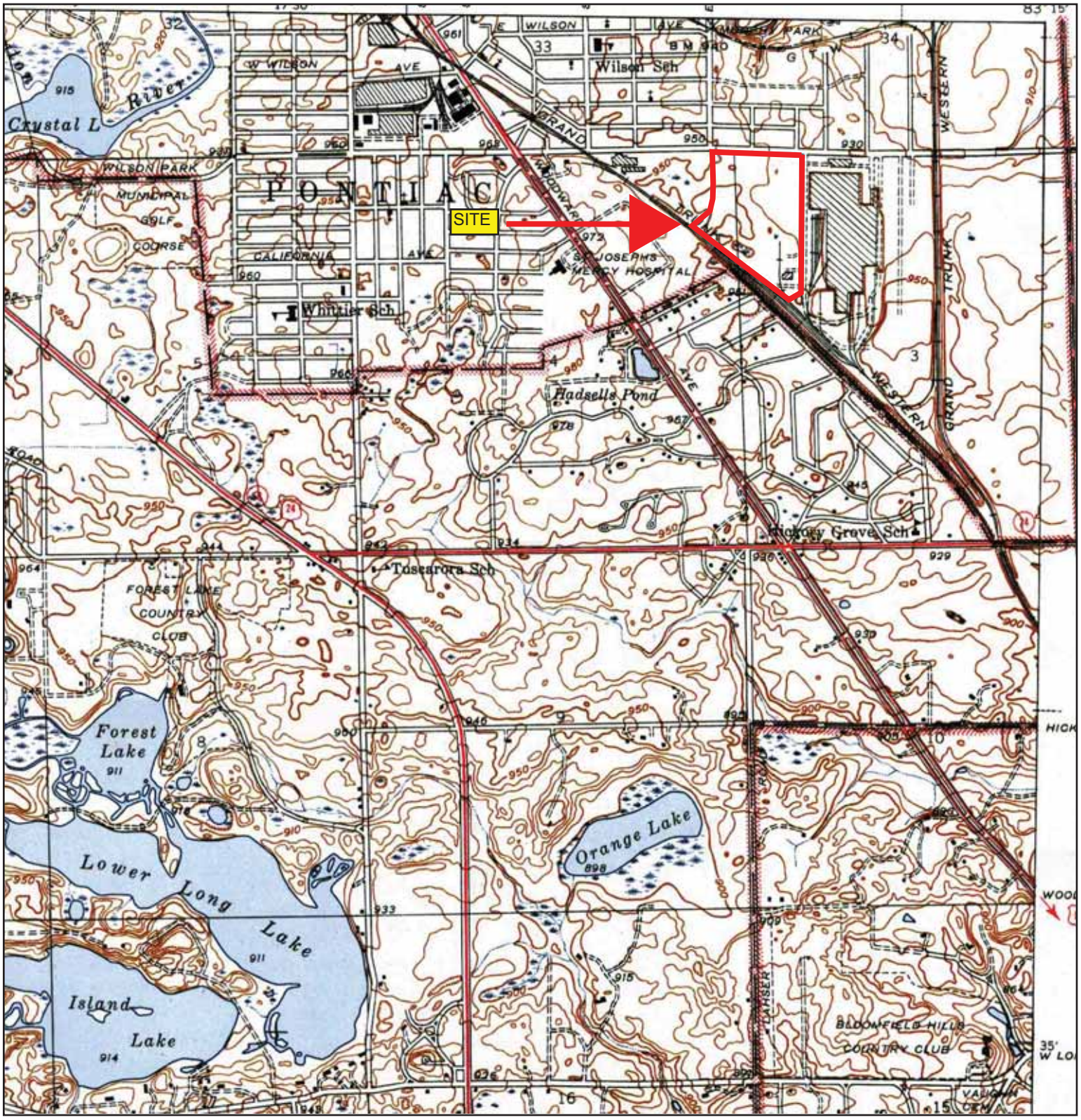
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Historical Topographic Map



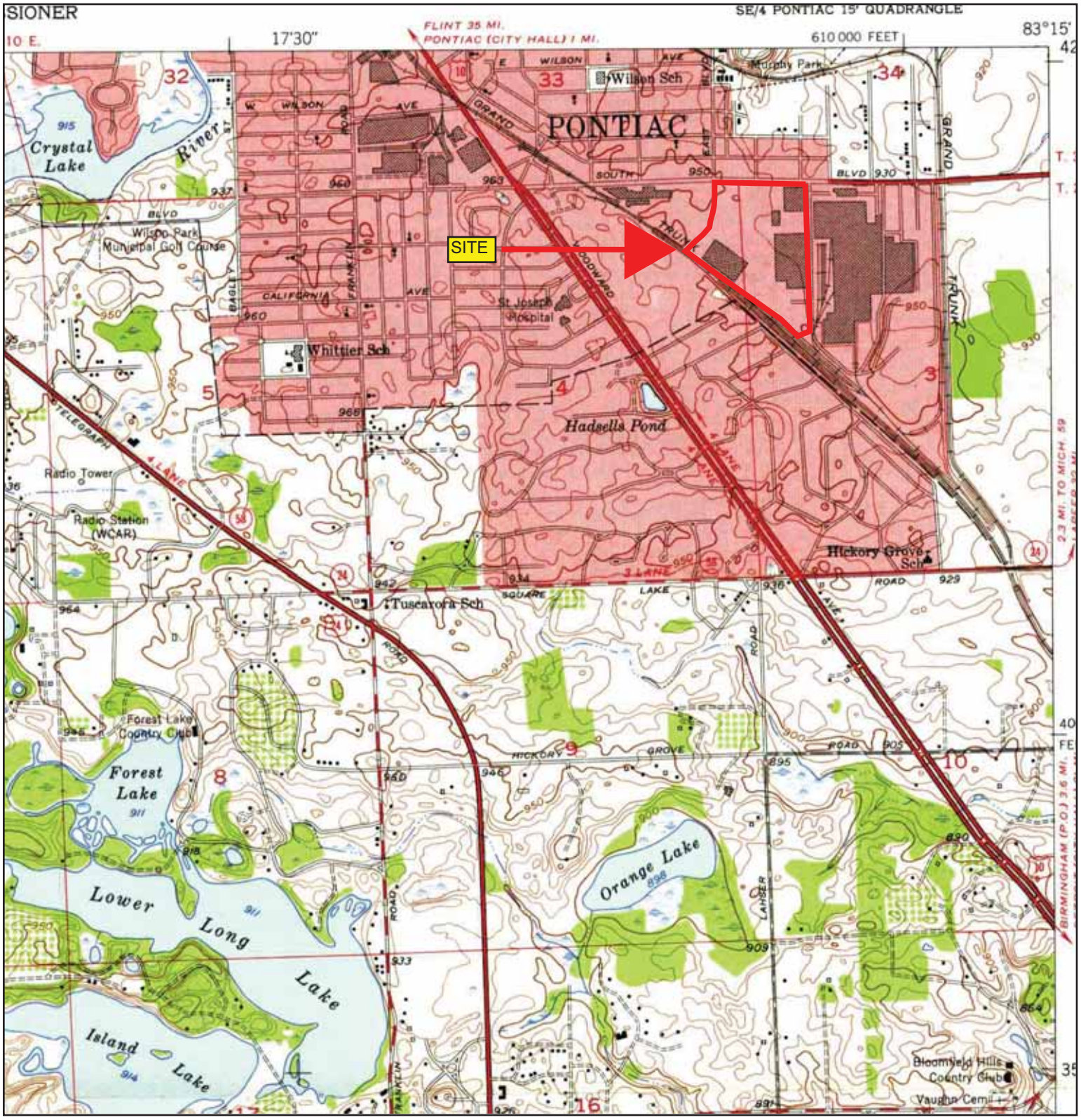
N	TARGET QUAD NAME: PONTIAC MAP YEAR: 1907 SERIES: 15 SCALE: 1:62500	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



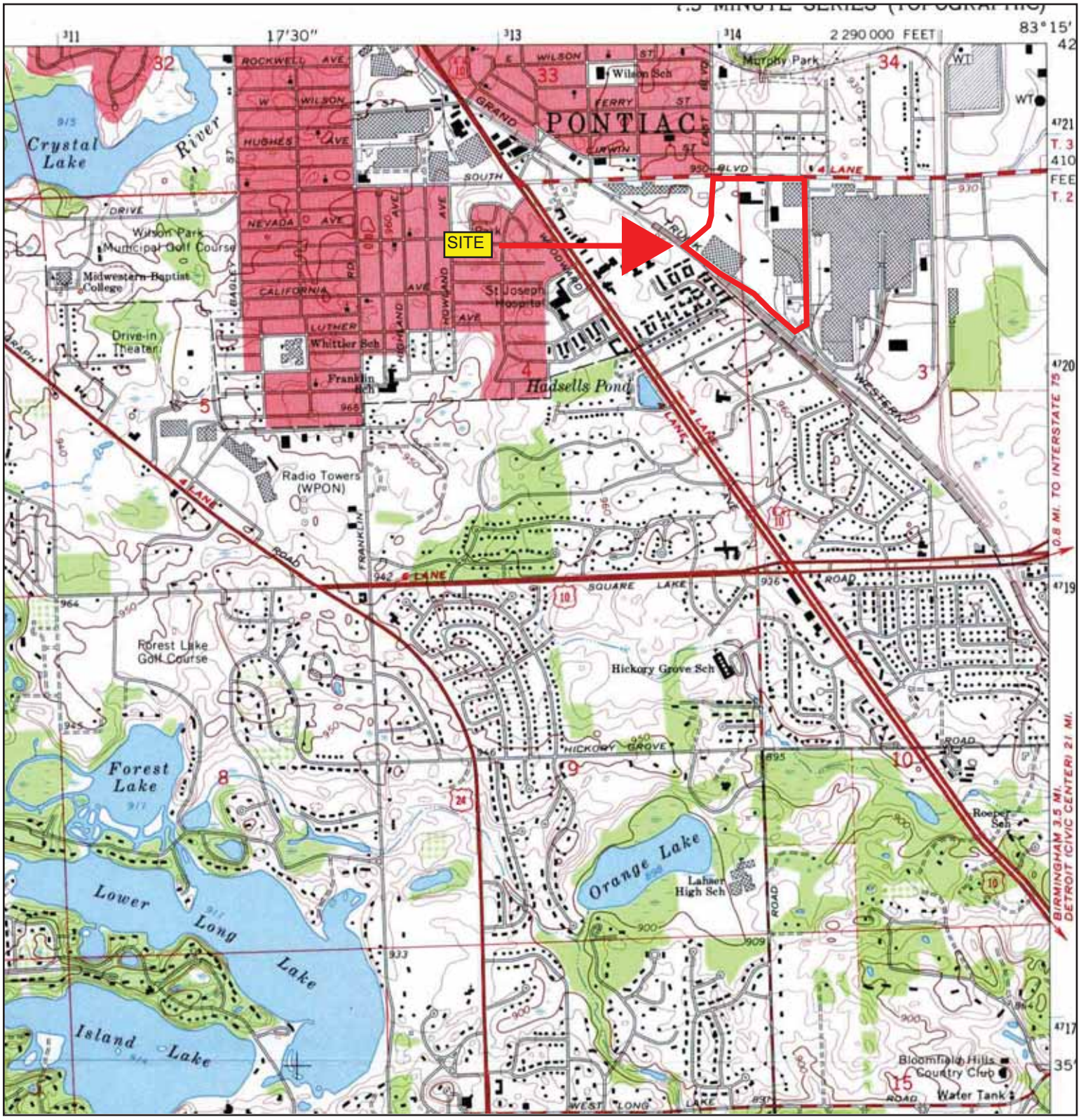
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



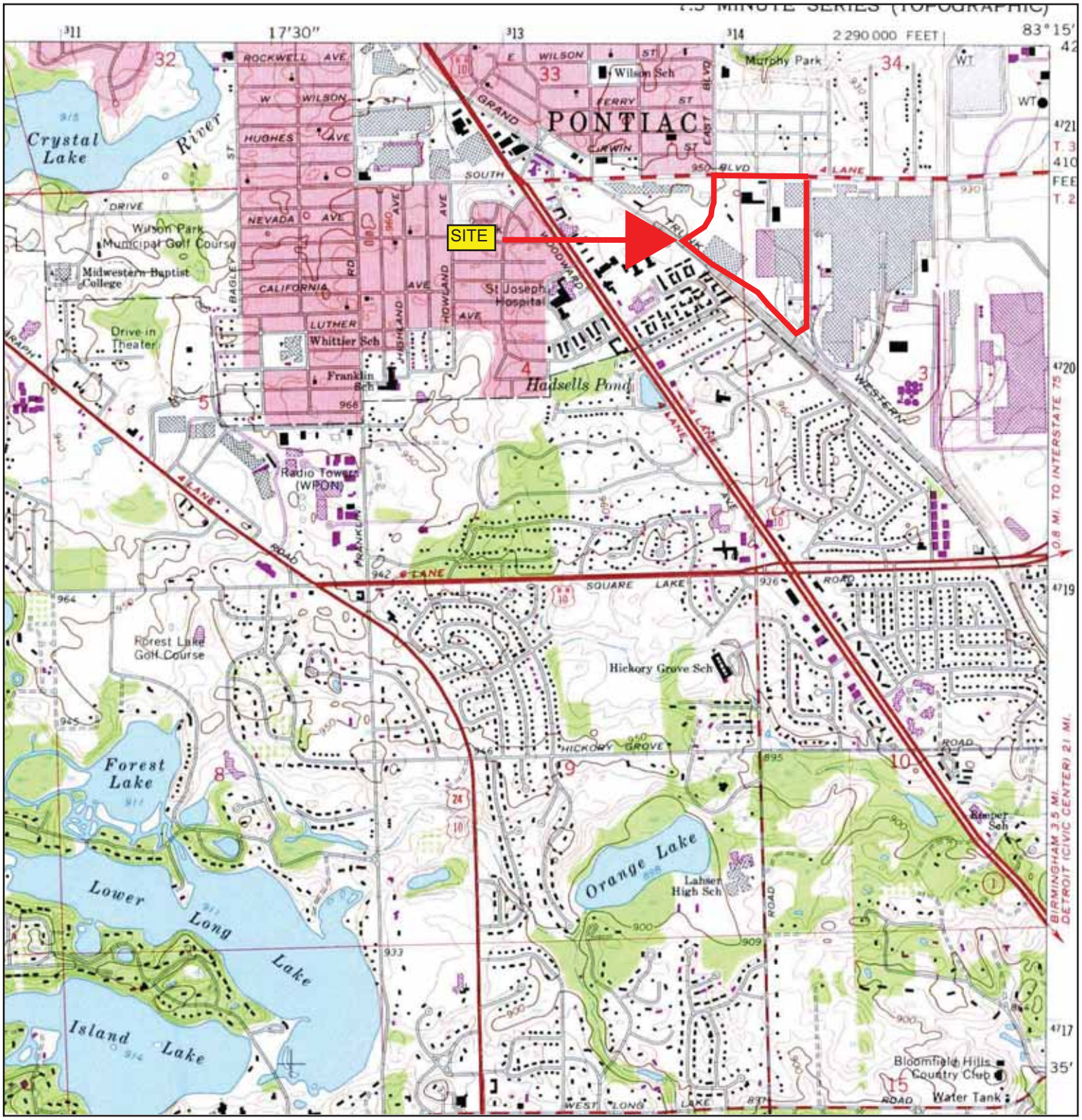
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



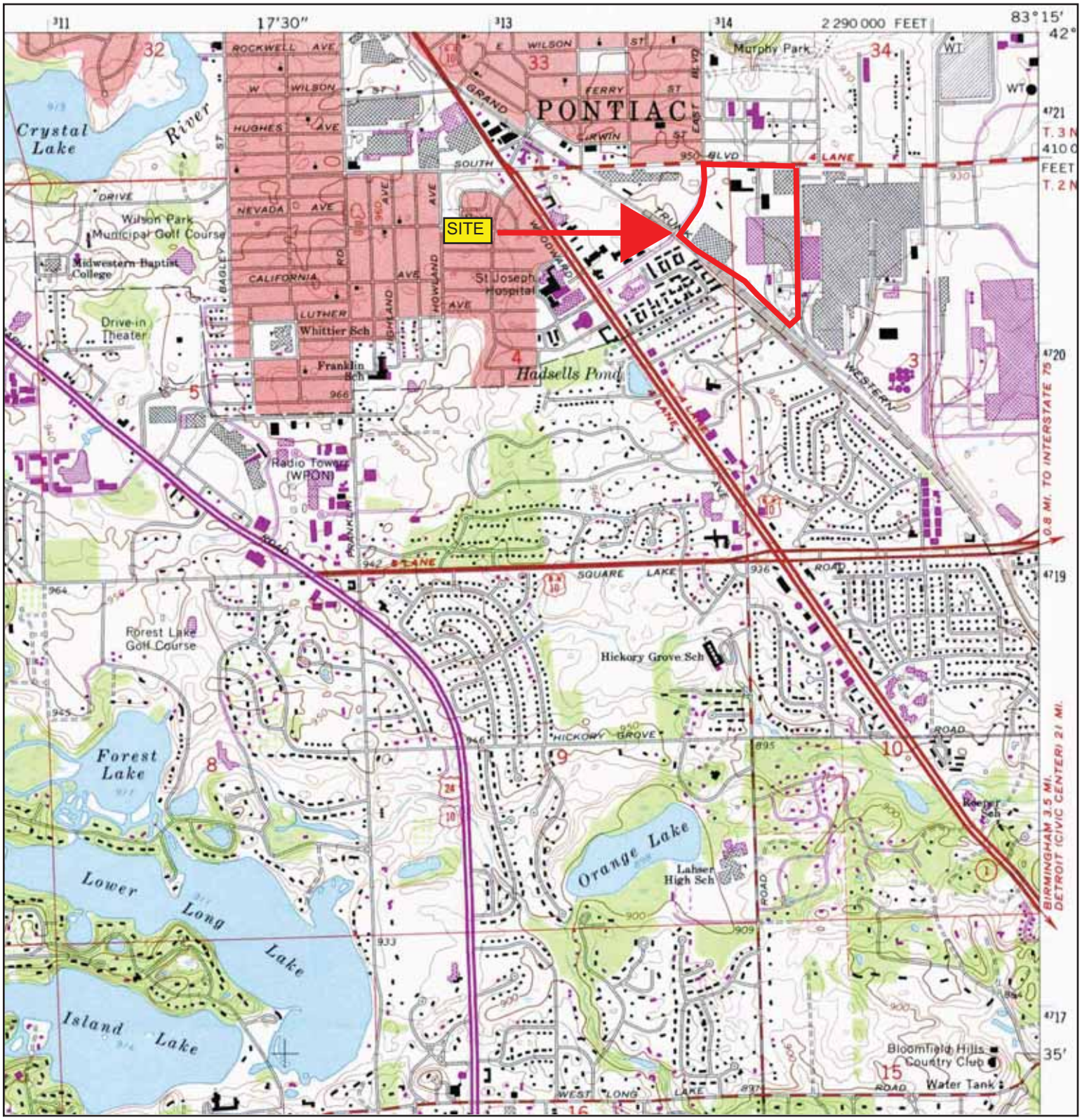
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



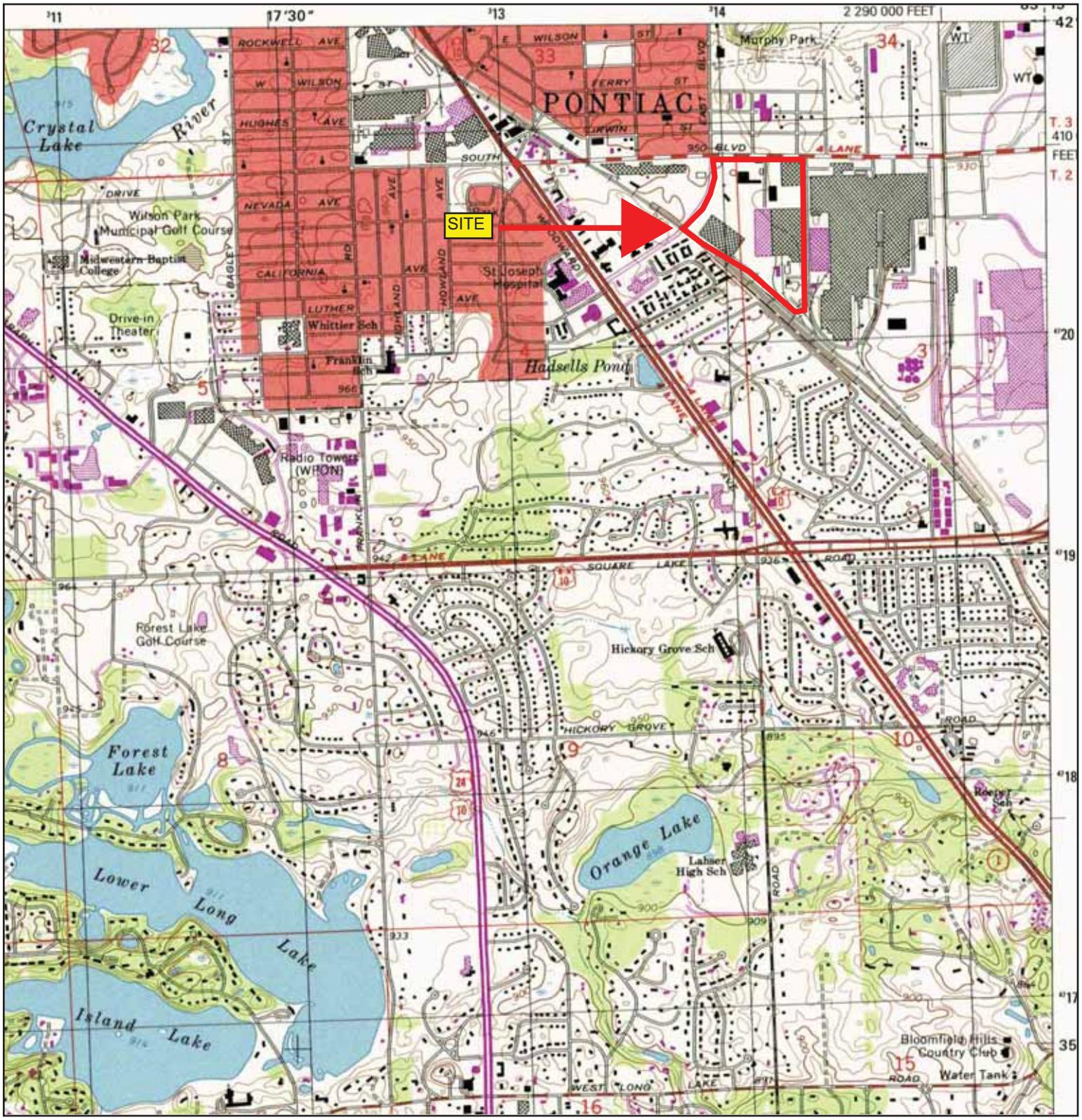
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1973 PHOTOREVISED FROM:1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1983 PHOTOREVISED FROM:1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

Historical Topographic Map



N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC West ADDRESS: 660 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672069.4 RESEARCH DATE: 01/06/2010

APPENDIX C

EDR Radius Map Report

PCC West
660 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672069.2s
January 07, 2010

The EDR Radius Map™ Report with GeoCheck®

EDR® Environmental Data Resources Inc

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

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EXECUTIVE SUMMARY

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

TARGET PROPERTY INFORMATION

ADDRESS

660 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

COORDINATES

Latitude (North):	42.617700 - 42° 37' 3.7''
Longitude (West):	83.265800 - 83° 15' 56.9''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314168.2
UTM Y (Meters):	4720636.5
Elevation:	939 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
Northeast Map:	42083-F2 ROCHESTER, MI
Most Recent Revision:	1997
East Map:	42083-E2 BIRMINGHAM, MI
Most Recent Revision:	1981

AERIAL PHOTOGRAPHY IN THIS REPORT

Photo Year:	2005
Source:	USDA

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 7 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
660 S BLVD E 660 S BLVD E PONTIAC, MI	ERNS	N/A

EXECUTIVE SUMMARY

GMC TRUCK & COACH DIV PONTIAC EAS 660 S BLVD E PONTIAC, MI 48053	RCRA-TSDF CERC-NFRAP CORRACTS RCRA-LQG US INST CONTROL TRIS FINDS MANIFEST	48058GMCTR82
660 S BLVD E 660 S BLVD E PONTIAC, MI	ERNS	N/A
660 S BLVD E 660 S BLVD E PONTIAC, MI	ERNS	N/A
GENERAL MOTORS CORP. 660 SOUTH BOULEVARD PONTIAC, MI 48053	MLTS	N/A
660 SOUTH BLVD EAST 660 SOUTH BLVD EAST OAKLAND (County), MI	ERNS	N/A
GM - PONTIAC CENTERPOINT CAMPUS - 660 S BOULEVARD EAST PONTIAC, MI 48341	UST	N/A
GM - PONTIAC CENTERPOINT CAMPUS - 660 S BOULEVARD EAST PONTIAC, MI 48341	LUST Facility Status: Open Facility Status: Open **Additional key fields are available in the Map Findings section*	N/A
GM TRUCK AND BUS PONTIAC CENTRAL 660 S. BLVD. E PONTIAC, MI	SHWS Facility Status: Inactive - no actions taken to address contamination	N/A

EXECUTIVE SUMMARY

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
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 FACILITY ---------- Federal Facility Site Information listing

Federal RCRA generators list

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

Federal institutional controls / engineering controls registries

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

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
FEMA UST ---------- Underground Storage Tank Listing

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

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
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
RADINFO ---------- Radiation Information Database
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
COAL ASH DOE Sleam-Electric Plan Operation Data
PCB TRANSFORMER PCB Transformer Registration Database
COAL ASH EPA Coal Combustion Residues Surface Impoundments List
COAL ASH Coal Ash Disposal Sites

EDR PROPRIETARY RECORDS

EDR Proprietary Records

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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

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

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS NFRAP site List

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

A review of the CERC-NFRAP list, as provided by EDR, and dated 06/23/2009 has revealed that there is 1 CERC-NFRAP site within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
PONTIAC MEDICAL ASSOCIATES MER	44696 WOODWARD	W 1/2 - 1 (0.565 mi.)	22	63

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 11/23/2009 has revealed that there are 3 LUST sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAUKLER STORAGE CO	***400 SOUTH BLVD E***	***WNW 1/4 - 1/2 (0.365 mi.)***	***C17***	***51***
Facility Status: Closed				
ST JOSEPH MERCY HOSPITAL	***44405 WOODWARD AVE***	***WSW 1/2 - 1 (0.501 mi.)***	***20***	***53***
Facility Status: Closed				
Facility Status: Closed				
**Additional key fields are available in the Map Findings section*				
PLANET PROPERTIES	***451 E WILSON AVE***	***NNW 1/2 - 1 (0.538 mi.)***	***21***	***61***
Facility Status: Closed				

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 11/23/2009 has revealed that there are 2 UST sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GAUKLER STORAGE CO	***400 SOUTH BLVD E***	***WNW 1/4 - 1/2 (0.365 mi.)***	***C17***	***51***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CITY OF PONTIAC	650 PLAINFIELD	NE 1/8 - 1/4 (0.213 mi.)	B12	43

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 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANKERSON RESOURCE SYSTEMS INC	400 SOUTH BLVD E	WNW 1/4 - 1/2 (0.365 mi.)	C16	49

EXECUTIVE SUMMARY

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 1.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
HOWLAND & LUTHER STREETS	HOWLAND / LUTHER	WSW 1/2 - 1 (0.906 mi.)	23	64

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 3 RCRA-NonGen sites within approximately 0.375 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
COMPLETE AUTO TRANSIT	***525 SOUTH BLVD E***	***NNW 1/8 - 1/4 (0.165 mi.)***	***10***	***41***
MULT-A-FRAME CORPORATION	***366 S BLVD EAST***	***WNW 1/4 - 1/2 (0.301 mi.)***	***14***	***46***
FOXPOINTE APARTMENTS - DART PR	***900 M L KING JR BLVD S***	***WSW 1/4 - 1/2 (0.353 mi.)***	***15***	***48***

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 12/02/2009 has revealed that there are 4 BEA sites within approximately 0.625 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STOR-MOR PROPERTY	350-400 SOUTH BOULEVARD	WNW 1/4 - 1/2 (0.498 mi.)	19	53

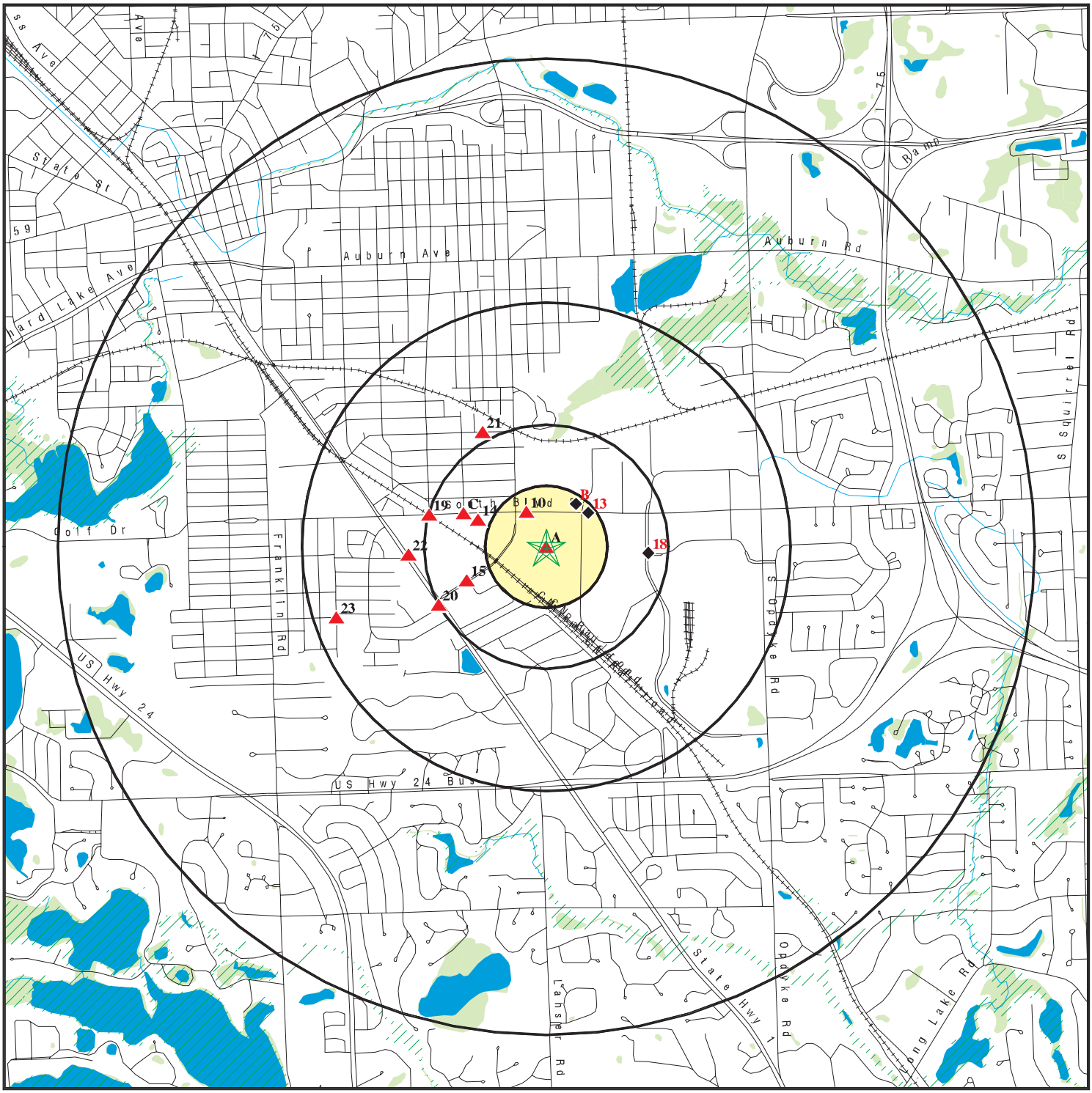
Lower Elevation	Address	Direction / Distance	Map ID	Page
OFFICE BUILDING	585 SOUTH BOULEVARD EAS	NE 1/8 - 1/4 (0.179 mi.)	B11	43
SOUTH BOULEVARD COMMERCIAL BUI	655 SOUTH BOULEVARD EAS	NE 1/8 - 1/4 (0.222 mi.)	13	45
MOTOWN MOTION PICTURES LLC	1999 CENTERPOINT PARKWA	E 1/4 - 1/2 (0.418 mi.)	18	53

EXECUTIVE SUMMARY

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

Site Name	Database(s)
DIAL DRY CLEANERS	DRYCLEANERS
ADAMS AND AUBURN RD DEVELOPMENT	SHWS
SHELL DRY WELL 1 TELEGRAPH	SHWS
3951 JOSLYN RD	CERC-NFRAP, SHWS
KENNETT RD LF	SHWS
ASPHALT SPECIALIST INC	SHWS, DEL SHWS
871 SOUTH BLVD	CERC-NFRAP
AMERICAR	LUST, UST
WABEEK COUNTRY CLUB MAINTENANCE BL	LUST
FATHER & SON FOOD MART LLC	LUST, UST
ST. ELIZABETH BRIARBANK HOME FOR	LUST, UST
ROEPER CITY & COUNTRY SCHOOL	LUST, UST
WOODWARD AVE & SQUARE LAKE ROAD	LUST
ORCHARD LAKE ROAD	LUST
SPEEDY MUFFLER KING	LUST, UST
WOODWARD OFFICE PLAZA	LUST, UST
HIGHLAND LAKES CAMPUS	LUST, UST
CORNER SANFORD & CENTRAL	RCRA-NonGen
7660 HIGHLAND RD	RCRA-NonGen, FINDS
7585 HIGHLAND RD	RCRA-NonGen, FINDS
CHEVRON STATION 203773	RCRA-CESQG
WEST MONTCALM AVE	ERNS
UAG MICHIGAN H1, LLC	BEA
SOUTH SAGINAW STREET PARCELS	BEA
DETROIT MANAGERS, LLC PROPERTY	BEA
PONTIAC CENTER, LLC	BEA
AMERICAN AGGREGATES OF MICHIGAN, I	MINES

OVERVIEW MAP - 2672069.2s



0 1/2 1 2 Miles

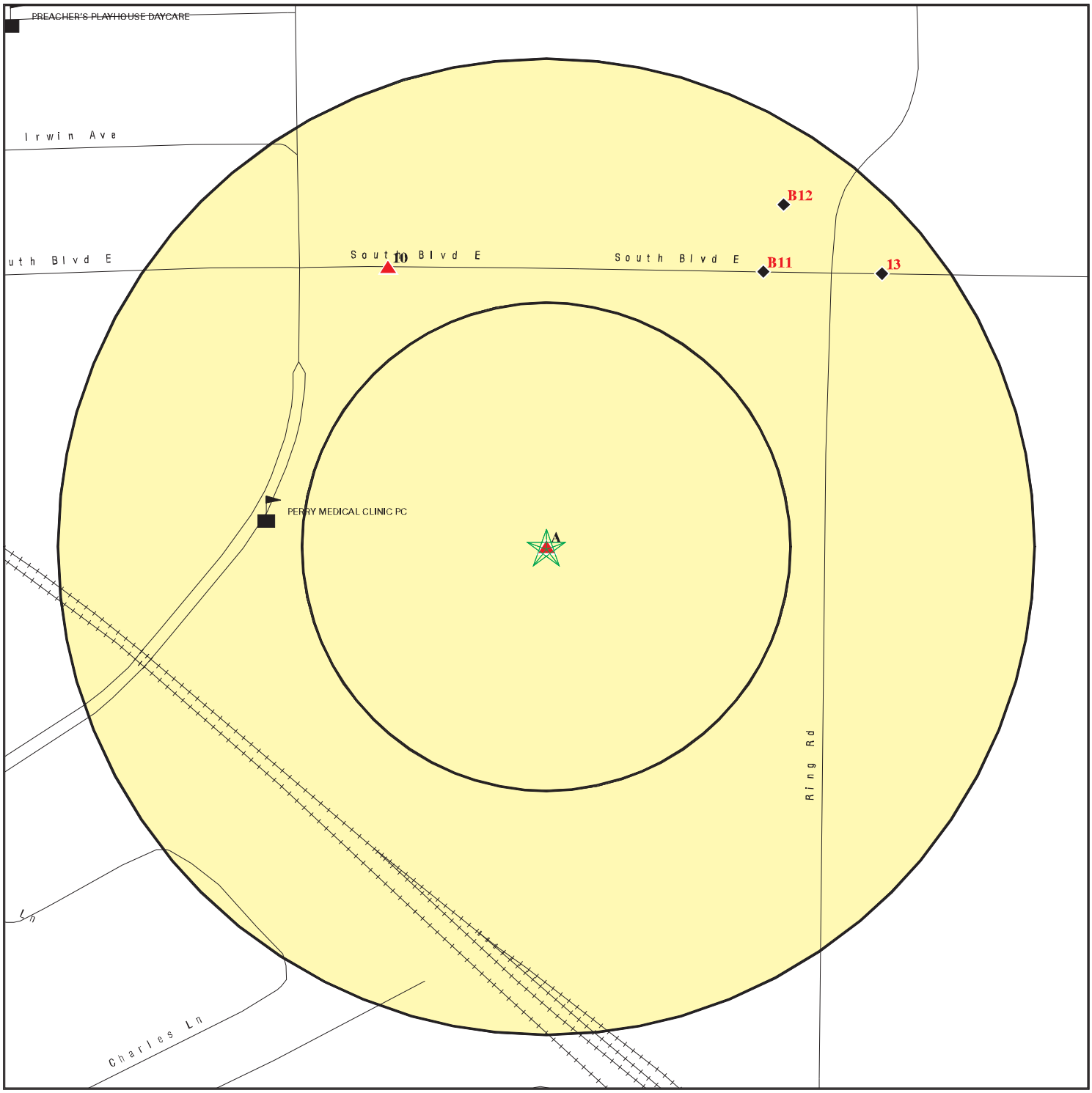
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood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

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: PCC West ADDRESS: 660 South Boulevard East Pontiac MI 48341 LAT/LONG: 42.6177 / 83.2658	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY #: 2672069.2s DATE: January 07, 2010 11:24 am

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DETAIL MAP - 2672069.2s



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- 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: PCC West	CLIENT: ARCADIS U.S., Inc.
ADDRESS: 660 South Boulevard East Pontiac MI 48341	CONTACT: Moriah Bloom
LAT/LONG: 42.6177 / 83.2658	INQUIRY #: 2672069.2s DATE: January 07, 2010 11:24 am

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MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL		1.125	0	0	0	0	0	0
Proposed NPL		1.125	0	0	0	0	0	0
NPL LIENS		0.125	0	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL		1.125	0	0	0	0	0	0
Federal CERCLIS list								
CERCLIS		0.625	0	0	0	0	NR	0
FEDERAL FACILITY		1.125	0	0	0	0	0	0
Federal CERCLIS NFRAP site List								
CERC-NFRAP	X	0.625	0	0	0	1	NR	1
Federal RCRA CORRACTS facilities list								
CORRACTS	X	1.125	0	0	0	0	0	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	X	0.625	0	0	0	0	NR	0
Federal RCRA generators list								
RCRA-LQG	X	0.375	0	0	0	NR	NR	0
RCRA-SQG		0.375	0	0	0	NR	NR	0
RCRA-CESQG		0.375	0	0	0	NR	NR	0
Federal institutional controls / engineering controls registries								
US ENG CONTROLS		0.625	0	0	0	0	NR	0
US INST CONTROL	X	0.625	0	0	0	0	NR	0
Federal ERNS list								
ERNS	X	0.125	0	NR	NR	NR	NR	0
State- and tribal - equivalent CERCLIS								
SHWS	X	1.125	0	0	0	0	0	0
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF		0.625	0	0	0	0	NR	0
State and tribal leaking storage tank lists								
LUST	X	0.625	0	0	1	2	NR	3
INDIAN LUST		0.625	0	0	0	0	NR	0
State and tribal registered storage tank lists								
UST	X	0.375	0	1	1	NR	NR	2

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
AST		0.375	0	0	0	NR	NR	0
INDIAN UST		0.375	0	0	0	NR	NR	0
FEMA UST		0.375	0	0	0	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL		0.625	0	0	0	0	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP		0.625	0	0	0	0	NR	0
State and tribal Brownfields sites								
BROWNFIELDS		0.625	0	0	0	0	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS		0.625	0	0	0	0	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
ODI		0.625	0	0	0	0	NR	0
DEBRIS REGION 9		0.625	0	0	0	0	NR	0
HIST LF		0.625	0	0	1	0	NR	1
INDIAN ODI		0.625	0	0	0	0	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US CDL		0.125	0	NR	NR	NR	NR	0
DEL SHWS		1.125	0	0	0	1	0	1
CDL		0.125	0	NR	NR	NR	NR	0
US HIST CDL		0.125	0	NR	NR	NR	NR	0
Local Land Records								
LIENS 2		0.125	0	NR	NR	NR	NR	0
LUCIS		0.625	0	0	0	0	NR	0
LIENS		0.125	0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS		0.125	0	NR	NR	NR	NR	0
SPILLS		0.125	0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA-NonGen		0.375	0	1	2	NR	NR	3
DOT OPS		0.125	0	NR	NR	NR	NR	0
DOD		1.125	0	0	0	0	0	0
FUDS		1.125	0	0	0	0	0	0
CONSENT		1.125	0	0	0	0	0	0
ROD		1.125	0	0	0	0	0	0
UMTRA		0.625	0	0	0	0	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
MINES		0.375	0	0	0	NR	NR	0
TRIS	X	0.125	0	NR	NR	NR	NR	0
TSCA		0.125	0	NR	NR	NR	NR	0
FTTS		0.125	0	NR	NR	NR	NR	0
HIST FTTS		0.125	0	NR	NR	NR	NR	0
SSTS		0.125	0	NR	NR	NR	NR	0
ICIS		0.125	0	NR	NR	NR	NR	0
PADS		0.125	0	NR	NR	NR	NR	0
MLTS	X	0.125	0	NR	NR	NR	NR	0
RADINFO		0.125	0	NR	NR	NR	NR	0
FINDS	X	0.125	0	NR	NR	NR	NR	0
RAATS		0.125	0	NR	NR	NR	NR	0
UIC		0.125	0	NR	NR	NR	NR	0
DRYCLEANERS		0.375	0	0	0	NR	NR	0
NPDES		0.125	0	NR	NR	NR	NR	0
AIRS		0.125	0	NR	NR	NR	NR	0
BEA		0.625	0	2	2	0	NR	4
INDIAN RESERV		1.125	0	0	0	0	0	0
SCRD DRYCLEANERS		0.625	0	0	0	0	NR	0
COAL ASH DOE		0.125	0	NR	NR	NR	NR	0
PCB TRANSFORMER		0.125	0	NR	NR	NR	NR	0
COAL ASH EPA		0.625	0	0	0	0	NR	0
COAL ASH		0.625	0	0	0	0	NR	0
EDR PROPRIETARY RECORDS								
EDR Proprietary Records								
Manufactured Gas Plants		1.125	0	0	0	0	0	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

A1 **660 S BLVD E** **ERNS** **91202071**
Target **660 S BLVD E** **N/A**
Property **PONTIAC, MI**

Site 1 of 9 in cluster A

Actual:
939 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A2 **GMC TRUCK & COACH DIV PONTIAC EAST** **RCRA-TSDF** **1000881766**
Target **660 S BLVD E** **CERC-NFRAP** **48058GMCTR82**
Property **PONTIAC, MI 48053** **CORRACTS**
RCRA-LQG

Site 2 of 9 in cluster A **US INST CONTROL**
TRIS

Actual: **FINDS**
939 ft. **MANIFEST**

RCRA-TSDF:

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

Owner/Operator Summary:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Classification: Large Quantity Generator

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

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

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

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

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

Biennial Reports:

Last Biennial Reporting Year: 2007

Annual Waste Handled:

Waste code: D001
Waste name: IGNITABLE HAZARDOUS WASTES ARE THOSE WASTES WHICH HAVE A FLASHPOINT OF LESS THAN 140 DEGREES FAHRENHEIT AS DETERMINED BY A PENSKY-MARTENS CLOSED CUP FLASH POINT TESTER. ANOTHER METHOD OF DETERMINING THE FLASH POINT OF A WASTE IS TO REVIEW THE MATERIAL SAFETY DATA SHEET, WHICH CAN BE OBTAINED FROM THE MANUFACTURER OR DISTRIBUTOR OF THE MATERIAL. LACQUER THINNER IS AN EXAMPLE OF A COMMONLY USED SOLVENT WHICH WOULD BE CONSIDERED AS IGNITABLE HAZARDOUS WASTE.
Amount (Lbs): 1763097.8

Waste code: D002
Waste name: A WASTE WHICH HAS A PH OF LESS THAN 2 OR GREATER THAN 12.5 IS CONSIDERED TO BE A CORROSIVE HAZARDOUS WASTE. SODIUM HYDROXIDE, A CAUSTIC SOLUTION WITH A HIGH PH, IS OFTEN USED BY INDUSTRIES TO CLEAN OR DEGREASE PARTS. HYDROCHLORIC ACID, A SOLUTION WITH A LOW PH, IS USED BY MANY INDUSTRIES TO CLEAN METAL PARTS PRIOR TO PAINTING. WHEN 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

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

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

Corrective Action Summary:

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

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

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

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

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

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

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

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

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

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

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

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

Event date: 04/10/2007
Event: CA772PR

Event date: 04/11/2007
Event: CA772PR

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

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

Regulation violated: Not reported
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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Date achieved compliance: 11/06/1990
Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 04/04/1990
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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

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

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

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

Violation lead agency: State
Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/14/1988
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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

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

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

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

Enforcement action: WRITTEN INFORMAL
Enforcement action date: 09/29/1986
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: State
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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

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

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

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

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

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

Date achieved compliance: 04/22/1997
Evaluation lead agency: State

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Date achieved compliance: 10/20/1988
Evaluation lead agency: State

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

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

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

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

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

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

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

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

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

Program Priority:
Description: Great Lakes

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

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

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

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

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

CORRACTS:

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

EPA ID: MID005356902
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

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

Actual Date: 4/11/2007
Action: CA772PR
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

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

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

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

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

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

exposure control by barrier and/or institutional control
NAICS Code(s): 336112
Light Truck and Utility Vehicle Manufacturing
Original schedule date: Not reported
Schedule end date: Not reported

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

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

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

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

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

US INST CONTROL:

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

FINDS:

Registry ID: 110000404795

Environmental Interest/Information System

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

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

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

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

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

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

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

NY MANIFEST:

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

Document ID:	NYB9555984
Manifest Status:	Not reported
Trans1 State ID:	OHD068913409
Trans2 State ID:	Not reported
Generator Ship Date:	03/12/2003
Trans1 Recv Date:	03/12/2003
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	03/20/2003
Part A Recv Date:	Not reported
Part B Recv Date:	Not reported
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD049836679
Trans2 EPA ID:	Not reported
TSDF ID:	0629746ME
Waste Code:	D001 - NON-LISTED IGNITABLE WASTES
Quantity:	00800

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

Units:	P - Pounds
Number of Containers:	002
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	01.00
Year:	03
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

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

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

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

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

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

Quantity:	00918
Units:	K - Kilograms (2.2 pounds)
Number of Containers:	003
Container Type:	DM - Metal drums, barrels
Handling Method:	B Incineration, heat recovery, burning.
Specific Gravity:	100
Year:	95
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

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

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

Document ID:	NYB8373069
Manifest Status:	Completed copy
Trans1 State ID:	10211PNY
Trans2 State ID:	Not reported
Generator Ship Date:	960911
Trans1 Recv Date:	960911
Trans2 Recv Date:	Not reported
TSD Site Recv Date:	960913
Part A Recv Date:	961015
Part B Recv Date:	961003
Generator EPA ID:	MID005356902
Trans1 EPA ID:	NYD980769947
Trans2 EPA ID:	Not reported
TSDF ID:	NYD049836679
Waste Code:	D009 - MERCURY 0.2 MG/L TCLP
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Waste Code:	Not reported
Quantity:	00125
Units:	P - Pounds
Number of Containers:	001
Container Type:	DM - Metal drums, barrels
Handling Method:	R Material recovery of more than 75 percent of the total material.
Specific Gravity:	100
Year:	96
Manifest Tracking Num:	Not reported
Import Ind:	Not reported
Export Ind:	Not reported
Discr Quantity Ind:	Not reported
Discr Type Ind:	Not reported
Discr Residue Ind:	Not reported
Discr Partial Reject Ind:	Not reported
Discr Full Reject Ind:	Not reported
Manifest Ref Num:	Not reported
Alt Fac RCRA Id:	Not reported
Alt Fac Sign Date:	Not reported
Mgmt Method Type Code:	Not reported

A3 **660 S BLVD E** **ERNS** **91200517**
Target Property **660 S BLVD E** **N/A**
PONTIAC, MI

Site 3 of 9 in cluster A

Actual: 939 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A4 **660 S BLVD E** **ERNS** **90188443**
Target **660 S BLVD E** **N/A**
Property **PONTIAC, MI**

Site 4 of 9 in cluster A

Actual:
939 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A5 **GENERAL MOTORS CORP.** **MLTS** **1001207814**
Target **660 SOUTH BOULEVARD** **N/A**
Property **PONTIAC, MI 48053**

Site 5 of 9 in cluster A

Actual:
939 ft.

MLTS:

License Number:	21-11448-04
First License Date:	0
License Date:	12/30/1992
Lic. Expiration Date:	11/30/1992
Contact Name:	RADIATION SAFETY OFFICER
Contact Phone:	Not reported
Institution Code:	11448
Primary Program:	Not reported
Department:	GM TRUCK & BUS DIVISION
Building:	Not reported
States Allowing Use:	Not reported
License Use:	Not reported
Store Material Use:	No
Redistribution Use:	No
Incinerate Use:	No
Burial Use:	No
Last Inspection Date:	07/1988
Next Inspection Date:	999999
Inspector Name:	Not reported
Status:	Not reported

A6 **660 SOUTH BLVD EAST** **ERNS** **8853874**
Target **660 SOUTH BLVD EAST** **N/A**
Property **OAKLAND (County), MI**

Site 6 of 9 in cluster A

Actual:
939 ft.

Click this hyperlink while viewing on your computer to access additional ERNS detail in the EDR Site Report.

A7 **GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING** **UST** **U003833752**
Target **660 S BOULEVARD EAST** **N/A**
Property **PONTIAC, MI 48341**

Site 7 of 9 in cluster A

Actual:
939 ft.

UST:

Facility ID:	00018277
Facility Type:	ACTIVE
Latitude:	42.6194420000
Longitude:	-83.2634040000
Owner Name:	GM-Pontiac Assembly Center

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Owner Address:	2100 S Opdyke Rd 483-606-121
Owner City,St,Zip:	Pontiac, MI 48341
Owner Country:	USA
Owner Contact:	Not reported
Owner Phone:	Not reported
Contact:	Sue Waldrop
Contact Phone:	(248) 456-2107
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:	21-1
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 8 1927
Product:	Gasoline
Remove Date:	Aug 27 1991
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:	21-2
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 8 1927
Product:	Gasoline
Remove Date:	Aug 26 1991
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,Lined Interier
Impressed Device:	No

Tank ID:	21-3
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 8 1927
Product:	AXLE LUBE
Remove Date:	Aug 23 1991
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

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Tank ID: 21-4
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 8 1927
Product: Hazardous Substance
Remove Date: Aug 23 1991
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: 21-5
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 8 1927
Product: AXLE LUBE
Remove Date: Aug 23 1991
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: 21-6
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 8 1927
Product: Diesel
Remove Date: Aug 23 1991
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,Lined Interier
Impressed Device: No

Tank ID: 21-7
Tank Status: Removed from Ground
Capacity: 12000
Install Date: May 8 1927
Product: Diesel
Remove Date: Aug 22 1991
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,Lined Interier
Impressed Device: No

Tank ID: 21-8

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Tank Status:	**Removed from Ground**
Capacity:	10000
Install Date:	May 8 1951
Product:	Diesel
Remove Date:	Aug 22 1991
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,Lined Interier
Impressed Device:	No

Tank ID:	29-1
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 7 1946
Product:	ENGINE OIL
Remove Date:	Sep 5 1991
Tank Release Detection:	Automatic Tank Gauging,Inventory Control,Tank Tightness Testing
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:	29-2
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 7 1946
Product:	ENGINE OIL
Remove Date:	Sep 4 1991
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:	29-3
Tank Status:	**Removed from Ground**
Capacity:	12000
Install Date:	May 7 1946
Product:	ENGINE OIL
Remove Date:	Sep 4 1991
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,Lined Interier
Impressed Device:	No

Tank ID:	29-4
Tank Status:	**Removed from Ground**

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Capacity: 12000
Install Date: May 7 1946
Product: TRANS. OIL
Remove Date: Sep 4 1991
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: 29-5
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 7 1946
Product: PWR. STRG. OIL
Remove Date: Sep 4 1991
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: 29-6
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 7 1946
Product: Diesel
Remove Date: Sep 4 1991
Tank Release Detection: Automatic Tank Gauging,Inventory Control,Tank Tightness Testing
Pipe Realease Detection: Not reported
Piping Material: Bare Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Lined Interier
Impressed Device: No

Tank ID: 29-7
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 7 1946
Product: TRANS. FLUID
Remove Date: Sep 4 1991
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: 29-8
Tank Status: **Removed from Ground**
Capacity: 12000

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Install Date: May 7 1946
Product: Hazardous Substance
Remove Date: Sep 4 1991
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: 29-9
Tank Status: **Removed from Ground**
Capacity: 12000
Install Date: May 7 1946
Product: Gasoline
Remove Date: Sep 3 1991
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: 53-1
Tank Status: **Removed from Ground**
Capacity: 1000
Install Date: May 7 1972
Product: Used Oil
Remove Date: Sep 5 1991
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: GI-1
Tank Status: **Currently In Use**
Capacity: 12000
Install Date: Feb 1 1993
Product: Gasoline
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled,Fiberglass reinforced plastic
Piping Type: Suction: Valve at Tank
Constr Material: Composite(Steel w/Fiberglass)
Impressed Device: No

Tank ID: GI-2
Tank Status: **Currently In Use**
Capacity: 12000

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Install Date: Feb 1 1993
Product: Diesel
Remove Date: Not reported
Tank Release Detection: Inter Monitoring Double Walled Tank
Pipe Realease Detection: Automatic Line Leak Detectors,Interstitial Monitoring Double Walled Piping
Piping Material: Double Walled
Piping Type: Suction: Valve at Tank
Constr Material: Composite(Steel w/Fiberglass)
Impressed Device: No

Tank ID: DYNO-1
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 1 1946
Product: Hazardous Substance
Remove Date: Jun 1 1994
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Bare Steel
Piping Type: Gravity Fed?
Constr Material: Epoxy Coated Steel
Impressed Device: No

Tank ID: DYNO-2
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 1 1946
Product: Hazardous Substance
Remove Date: Jun 1 1994
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Bare Steel
Piping Type: Gravity Fed?
Constr Material: Epoxy Coated Steel
Impressed Device: No

Tank ID: DYNO-3
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 1 1946
Product: Gasoline
Remove Date: Jun 1 1994
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Bare Steel
Piping Type: Gravity Fed?
Constr Material: Epoxy Coated Steel
Impressed Device: No

Tank ID: DYNO-4
Tank Status: Closed in Ground
Capacity: 2000

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Install Date: Jan 1 1946
Product: UNK
Remove Date: Jan 1 1985
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Tank ID: DYNO-5
Tank Status: Closed in Ground
Capacity: 2000
Install Date: Jan 1 1946
Product: UNK
Remove Date: Jan 1 1985
Tank Release Detection: Tank Tightness Testing
Pipe Realease Detection: Line Tightness Testing
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Tank ID: DYNO-6
Tank Status: Removed from Ground
Capacity: 2000
Install Date: Jan 1 1946
Product: Hazardous Substance
Remove Date: Jun 1 1994
Tank Release Detection: Inventory Control
Pipe Realease Detection: Line Tightness Testing
Piping Material: Bare Steel
Piping Type: Gravity Fed?
Constr Material: Epoxy Coated Steel
Impressed Device: No

Tank ID: DYNO-7
Tank Status: Removed from Ground
Capacity: 12000
Install Date: Jan 1 1984
Product: Diesel
Remove Date: Jul 7 2005
Tank Release Detection: Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Vapor Monitoring
Pipe Realease Detection: Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material: Double Walled
Piping Type: Suction: Valve at Tank
Constr Material: Fiberglass Reinforced plastic
Impressed Device: No

Tank ID: DYNO-8
Tank Status: Removed from Ground
Capacity: 12000

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued) **U003833752**

Install Date:	Jan 1 1984
Product:	Gasoline
Remove Date:	Jul 7 2005
Tank Release Detection:	Automatic Tank Gauging,Inter Monitoring Double Walled Tank,Vapor Monitoring
Pipe Realease Detection:	Interstitial Monitoring Double Walled Piping,Line Tightness Testing
Piping Material:	Fiberglass reinforced plastic
Piping Type:	Pressure
Constr Material:	Fiberglass Reinforced plastic
Impressed Device:	No

A8 Target Property **GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING** **LUST** **S105213634**
660 S BOULEVARD EAST **N/A**
PONTIAC, MI 48341

Site 8 of 9 in cluster A

Actual: 939 ft.

LUST:

Facility ID:	00018277
Source:	STATE OF MICHIGAN
Owner Name:	GM-Pontiac Assembly Center
Owner Address:	2100 S Opdyke Rd 483-606-121
Owner City,St,Zip:	Pontiac, MI 48341
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	SE Michigan District Office
Site Name:	GM Pontiac Ctr point Campus- West Engineering
Latitude:	42.6194420000
Longitude:	-83.2634040000
Date of Collection:	01-11-2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Leak Number:	C-0202-05
Release Date:	Jul 20 2005
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

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

Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

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

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

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

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

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

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

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

A9
Target
Property

GM TRUCK AND BUS PONTIAC CENTRAL
660 S. BLVD. E
PONTIAC, MI

Database(s): **SHWS**
EDR ID Number: **1003834459**
EPA ID Number: **N/A**

Site 9 of 9 in cluster A

Actual:
939 ft.

SHWS:
Facility ID: 63000048
Facility Status: Inactive - no actions taken to address contamination
Source: null
SAM Score: 24 out o
SAM Score Date: 7/8/1991
Township: 03N
Range: 10E
Section: 34
Quarter: SE
Quarter/Quarter: SW
Pollutants: CN

10
NNW
1/8-1/4
0.165 mi.
869 ft.

COMPLETE AUTO TRANSIT
525 SOUTH BLVD E
PONTIAC, MI 48341

Database(s): **RCRA-NonGen**, **FINDS**
EDR ID Number: **1000223294**
EPA ID Number: **MID147359111**

Relative:
Higher

Actual:
945 ft.

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

COMPLETE AUTO TRANSIT (Continued) **1000223294**

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

COMPLETE AUTO TRANSIT (Continued) **1000223294**

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, 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.

B11 **OFFICE BUILDING** **BEA** **S108986833**
NE **585 SOUTH BOULEVARD EAST** **N/A**
1/8-1/4 **PONTIAC, MI**
0.179 mi.
947 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
930 ft.

BEA:

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

B12 **CITY OF PONTIAC** **UST** **U003320062**
NE **650 PLAINFIELD** **N/A**
1/8-1/4 **PONTIAC, MI 48341**
0.213 mi.
1126 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
929 ft.

UST:

Facility ID:	00003594
Facility Type:	CLOSED
Latitude:	42.6202210000
Longitude:	-83.2639490000
Owner Name:	City of Pontiac
Owner Address:	55 Wesson St
Owner City,St,Zip:	Pontiac, MI 48341-2266
Owner Country:	USA
Owner Contact:	Not reported
Owner Phone:	(248) 857-7746
Contact:	ROBERT PATRICK
Contact Phone:	(313) 339-1803
Date of Collection:	01-11-2001
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Datum:	NAD83

CITY OF PONTIAC (Continued) **U003320062**

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: May 7 1961
Product: WATER
Remove Date: Jun 1 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Tank ID: 5
Tank Status: Removed from Ground
Capacity: 1000
Install Date: May 7 1961
Product: WATER
Remove Date: Jun 1 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Tank ID: 3
Tank Status: Removed from Ground
Capacity: 10000
Install Date: May 7 1961
Product: WATER
Remove Date: Jun 1 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 10000
Install Date: May 7 1961
Product: WATER
Remove Date: Jun 1 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported

CITY OF PONTIAC (Continued) **U003320062**

Constr Material: Unknown
Impressed Device: No

Tank ID: 4
Tank Status: Removed from Ground
Capacity: 1000
Install Date: May 7 1961
Product: WATER
Remove Date: Jun 1 1988
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Constr Material: Unknown
Impressed Device: No

13
NE
1/8-1/4
0.222 mi.
1170 ft.

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

Relative:
Lower

Actual:
929 ft.

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

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

14
WNW
1/4-1/2
0.301 mi.
1590 ft.

MULT-A-FRAME CORPORATION
366 S BLVD EAST
PONTIAC, MI 48341

RCRA-NonGen
FINDS

1000390848
MID005348123

Relative:
Higher

Actual:
951 ft.

RCRA-NonGen:

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
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

MULT-A-FRAME CORPORATION (Continued) **1000390848**

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

FINDS:

Registry ID: 110008443693

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.

15
WSW
1/4-1/2
0.353 mi.
1865 ft.

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

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

Relative:
Higher

Actual:
958 ft.

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

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

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

FOXPOINTE APARTMENTS - DART PROPERTIES (Continued) **1001124038**

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

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.

C16 **ANKERSON RESOURCE SYSTEMS INC** **HIST LF** **S102519183**
WNW **400 SOUTH BLVD E** **N/A**
1/4-1/2 **PONTIAC, MI 48054**
0.365 mi.
1926 ft. **Site 1 of 2 in cluster C**

Relative: Higher

Actual: 951 ft.

Historical LF:
Facility ID: 63000002
Status: INACTIVE
Contact: Not reported
Facility Phone: Not reported

ANKERSON RESOURCE SYSTEMS INC (Continued) **S102519183**

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
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

ANKERSON RESOURCE SYSTEMS INC (Continued) **S102519183**

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
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 landill Certified Closed:	Not reported
Received Waste on or After Oct. 9, 1991:	Not reported
Site Monitorable Under Definition of New Rules:	Not reported

C17 **GAUKLER STORAGE CO** **LUST U003323147**
WNW **400 SOUTH BLVD E** **UST N/A**
1/4-1/2 **PONTIAC, MI 48341**
0.365 mi.
1926 ft. **Site 2 of 2 in cluster C**

Relative:
Higher

Actual:
951 ft.

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

GAUKLER STORAGE CO (Continued) **U003323147**

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:	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 Interier
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 Interier
Impressed Device:	No

Tank ID:	1
Tank Status:	**Removed from Ground**
Capacity:	10000
Install Date:	Mar 6 1980
Product:	Diesel
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 Interier
Impressed Device:	No

18
East
1/4-1/2
0.418 mi.
2209 ft.

MOTOWN MOTION PICTURES LLC
1999 CENTERPOINT PARKWAY
PONTIAC, MI 48341

BEA **S109569569**
N/A

Relative:
Lower

Actual:
920 ft.

BEA:

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

19
WNW
1/4-1/2
0.498 mi.
2629 ft.

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

BEA **S108669949**
N/A

Relative:
Higher

Actual:
954 ft.

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

20
WSW
1/2-1
0.501 mi.
2643 ft.

ST JOSEPH MERCY HOSPITAL
44405 WOODWARD AVE
PONTIAC, MI 48341

RCRA-SQG **1000265678**
FINDS **MID067359240**
LUST
UST
AIRS

Relative:
Higher

Actual:
970 ft.

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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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
Not reported
Owner/operator country: 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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

Furnace exemption:	No
Used oil fuel burner:	Unknown
Used oil processor:	Unknown
User 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
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:

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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
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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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
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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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 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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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

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

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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: 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 Realease 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

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: 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 Realease 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: F
Tank Status: Currently In Use
Capacity: 20000
Install Date: Jun 22 2009
Product: Diesel
Remove Date: Not reported

ST JOSEPH MERCY HOSPITAL (Continued) **1000265678**

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: 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 Realease 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

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

21
NNW
1/2-1
0.538 mi.
2841 ft.

Relative: Higher

Actual: 942 ft.

PLANET PROPERTIES **LUST U001148204**
451 E WILSON AVE **UST N/A**
PONTIAC, MI 48341

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

PLANET PROPERTIES (Continued) **U001148204**

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
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

PLANET PROPERTIES (Continued) **U001148204**

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
Constr Material:	Not reported
Impressed Device:	No

22
West
1/2-1
0.565 mi.
2986 ft.

PONTIAC MEDICAL ASSOCIATES MERCURY SPILL **CERC-NFRAP** **1005440719**
44696 WOODWARD **MIN000508263**
PONTIAC, MI 48341

Relative:
Higher

Actual:
971 ft.

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)

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

23
WSW
1/2-1
0.906 mi.
4784 ft.

HOWLAND & LUTHER STREETS
HOWLAND / LUTHER
PONTIAC, MI 48341

DEL SHWS **S105966048**
N/A

Relative:
Higher

Actual:
984 ft.

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

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN HILLS	S103594529	ADAMS AND AUBURN RD DEVELOPMENT	3995 AUBURN RD	48326	SHWS
BIRMINGHAM	U000263070	AMERICAR	860 S WOODWARD	48304	LUST, UST
BLOOMFIELD HILLS	S103594527	SHELL DRY WELL 1 TELEGRAPH	1415TH TELEGRAPH & GOLF	48302	SHWS
BLOOMFIELD HILLS	S105966539	UAG MICHIGAN H1, LLC	1819 AND 1825 SOUTH TELEGRAPH	48302	BEA
BLOOMFIELD HILLS	S105551002	WABEEK COUNTRY CLUB MAINTENANCE BL	4400 WABEEK LAKE DR S	48302	LUST
BLOOMFIELD HILLS	U003321829	FATHER & SON FOOD MART LLC	39580 N WOODWARD	48304	LUST, UST
BLOOMFIELD HILLS	U000261784	ST. ELIZABETH BRIARBANK HOME FOR	1315 N WOODWARD AVE	48304	LUST, UST
BLOOMFIELD HILLS	U000262061	ROEPER CITY & COUNTRY SCHOOL	2190 N WOODWARD AVE	48304	LUST, UST
BLOOMFIELD TWP	S104872786	WOODWARD AVE & SQUARE LAKE ROAD	2510 STATE HIGHWAY 1	48304	LUST
OAKLAND COUNTY	M300004243	AMERICAN AGGREGATES OF MICHIGAN, I	HIGHLAND PLANT		MINES
PONTIAC	S109171488	SOUTH SAGINAW STREET PARCELS	193 AND 197 SOUTH SAGINAW ST	48342	BEA
PONTIAC	1003871920		871 SOUTH BLVD		CERC-NFRAP
PONTIAC	1007102343		CORNER SANFORD & CENTRAL	48342	RCRA-NonGen
PONTIAC	1000331099		7660 HIGHLAND RD	48341	RCRA-NonGen, FINDS
PONTIAC	1000465135		7585 HIGHLAND RD	48341	RCRA-NonGen, FINDS
PONTIAC	1003871234		3951 JOSLYN RD		CERC-NFRAP, SHWS
PONTIAC	S105144527	KENNETT RD LF	KENNETT RD		SHWS
PONTIAC	S106439641	DIAL DRY CLEANERS	640 MARTIN LUTHER KING BLVD	48342	DRYCLEANERS
PONTIAC	1010320321	CHEVRON STATION 203773	690 MARTIN LUTHER KING BLVD	48342	RCRA-CESQG
PONTIAC	2008866370	WEST MONTCALM AVE	W MONTCALM AVE	48342	ERNS
PONTIAC	S108895919	DETROIT MANAGERS, LLC PROPERTY	NEC OF MARTIN LUTHER KING JR B	48341	BEA
PONTIAC	S108895970	PONTIAC CENTER, LLC	NEC OF MARTIN LUTHER KING JR B	48341	BEA
PONTIAC	S103285248	ORCHARD LAKE ROAD	494 ORCHARD LAKE RD	48341	LUST
PONTIAC	S105144543	ASPHALT SPECIALIST INC	1908 WIDE TRACK DR W	48342	SHWS, DEL SHWS
PONTIAC	U001147975	SPEEDY MUFFLER KING	810 WOODWARD AVE	48341	LUST, UST
PONTIAC	U001147877	WOODWARD OFFICE PLAZA	800 WOODWARD AVE	48341	LUST, UST
UNION LAKE	U003323160	HIGHLAND LAKES CAMPUS	7350 COOLEY LAKE ROAD	48304	LUST, UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

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

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

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

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

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

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

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

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

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

Federal CERCLIS list

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

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

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

Source: EPA
Telephone: 703-412-9810
Last EDR Contact: 12/28/2009
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of NPL and Base Realighnment & Closure sites found in the CERCLIS database where FERRO is involved in cleanup projects.

Date of Government Version: 10/03/2008
Date Data Arrived at EDR: 07/10/2009
Date Made Active in Reports: 09/29/2009
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 10/16/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Varies

Federal CERCLIS NFRAP site List

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

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

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

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

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

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

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

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Transporters, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31

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

US INST CONTROL: Sites with Institutional Controls

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

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/09/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 31

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

Federal ERNS list

ERNS: Emergency Response Notification System

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

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

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

State- and tribal - equivalent CERCLIS

SHWS: Contaminated Sites

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

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

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

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

SWF/LF: Solid Waste Facilities Database

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

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

Source: Department of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
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: 11/23/2009
Date Data Arrived at EDR: 11/24/2009
Date Made Active in Reports: 12/31/2009
Number of Days to Update: 37
Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 11/24/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Annually

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

Date of Government Version: 12/01/2009
Date Data Arrived at EDR: 12/01/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 15
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

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

Date of Government Version: 03/24/2009
Date Data Arrived at EDR: 05/20/2009
Date Made Active in Reports: 06/17/2009
Number of Days to Update: 28
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 11/04/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

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

Date of Government Version: 11/12/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land
A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 02/19/2009
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 25
Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

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

Date of Government Version: 11/10/2009
Date Data Arrived at EDR: 11/12/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 34
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Quarterly

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

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

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

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

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

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Semi-Annually

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: 11/23/2009
Date Data Arrived at EDR: 11/24/2009
Date Made Active in Reports: 12/28/2009
Number of Days to Update: 34

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: 11/30/2009
Date Data Arrived at EDR: 12/08/2009
Date Made Active in Reports: 12/30/2009
Number of Days to Update: 22

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 R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

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

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

INDIAN UST R1: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

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

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

INDIAN UST 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 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 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 R9: Underground Storage Tanks on Indian Land

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

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

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

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

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

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

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

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

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

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 48

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/19/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

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

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

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

State and tribal voluntary cleanup sites

INDIAN VCP 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: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng
A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

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

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

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: 12/02/2009
Date Data Arrived at EDR: 12/02/2009
Date Made Active in Reports: 12/31/2009
Number of Days to Update: 29

Source: Department of Environmental Quality
Telephone: 517-373-4805
Last EDR Contact: 11/30/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

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

Date of Government Version: 04/09/2007
Date Data Arrived at EDR: 04/10/2007
Date Made Active in Reports: 05/01/2007
Number of Days to Update: 21

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 12/07/2009
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

Date of Government Version: 10/01/2009
Date Data Arrived at EDR: 11/04/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 42

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 01/07/2010
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

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

Source: EPA, Region 9
Telephone: 415-972-3336
Last EDR Contact: 01/07/2010
Next Scheduled EDR Contact: 03/22/2010
Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

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

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

Date of Government Version: 03/01/1997
Date Data Arrived at EDR: 02/28/2003
Date Made Active in Reports: 03/06/2003
Number of Days to Update: 6

Source: Department of Environmental Quality
Telephone: 517-335-4034
Last EDR Contact: 02/28/2003
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

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

Location of open dumps on Indian land.

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

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

Local Lists of Hazardous waste / Contaminated Sites

US CDL: Clandestine Drug Labs

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

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

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

DEL SHWS: Delisted List of Contaminated Sites

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

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

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

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 10/20/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 11/21/2008
Number of Days to Update: 3

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 09/01/2007
Date Data Arrived at EDR: 11/19/2008
Date Made Active in Reports: 03/30/2009
Number of Days to Update: 131

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

Local Land Records

LIENS 2: CERCLA Lien Information

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

Date of Government Version: 11/03/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 41

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/09/2005
Date Data Arrived at EDR: 12/11/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 31

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 11/20/2009
Next Scheduled EDR Contact: 03/08/2010
Data Release Frequency: Varies

LIENS: Lien List

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

Date of Government Version: 08/12/2009
Date Data Arrived at EDR: 10/29/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 19

Source: Department of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 10/27/2009
Next Scheduled EDR Contact: 02/08/2010
Data Release Frequency: Varies

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

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

Date of Government Version: 10/05/2009
Date Data Arrived at EDR: 10/05/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 35

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 01/06/2010
Next Scheduled EDR Contact: 04/12/2010
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: 12/28/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA-NonGen: RCRA - Non Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 11/12/2008
Date Data Arrived at EDR: 11/18/2008
Date Made Active in Reports: 03/16/2009
Number of Days to Update: 118

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 12/17/2009
Next Scheduled EDR Contact: 01/18/2010
Data Release Frequency: Varies

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 11/10/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 36

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/10/2009
Next Scheduled EDR Contact: 02/22/2010
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 703-692-8801
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

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

Date of Government Version: 12/31/2008
Date Data Arrived at EDR: 09/30/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 62

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/18/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

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

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

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 01/05/2010
Next Scheduled EDR Contact: 04/19/2010
Data Release Frequency: Varies

ROD: Records Of Decision

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

Date of Government Version: 09/01/2009
Date Data Arrived at EDR: 09/22/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 30

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

UMTRA: Uranium Mill Tailings Sites

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

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

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Varies

MINES: Mines Master Index File

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

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

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

TRIS: Toxic Chemical Release Inventory System

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

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

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 12/01/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

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

Date of Government Version: 12/31/2002
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/30/2006
Number of Days to Update: 46

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 12/29/2009
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Every 4 Years

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

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

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

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 12/14/2009
Next Scheduled EDR Contact: 03/15/2010
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing

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

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

SSTS: Section 7 Tracking Systems

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

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 05/19/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 125

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 11/02/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 08/21/2009
Date Data Arrived at EDR: 08/27/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 56

Source: Environmental Protection Agency
Telephone: 202-564-5088
Last EDR Contact: 12/23/2009
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 09/01/2009
Date Data Arrived at EDR: 10/21/2009
Date Made Active in Reports: 12/01/2009
Number of Days to Update: 41

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 10/21/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

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

Date of Government Version: 09/25/2009
Date Data Arrived at EDR: 10/23/2009
Date Made Active in Reports: 12/16/2009
Number of Days to Update: 54

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

RADINFO: Radiation Information Database

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

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

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

FINDS: Facility Index System/Facility Registry System

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

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

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 12/10/2009
Next Scheduled EDR Contact: 03/29/2010
Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

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

Date of Government Version: 12/31/2007
Date Data Arrived at EDR: 02/19/2009
Date Made Active in Reports: 05/22/2009
Number of Days to Update: 92

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

UIC: Underground Injection Wells Database

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

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

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

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

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

Source: Department of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 10/26/2009
Next Scheduled EDR Contact: 02/08/2010
Data Release Frequency: Varies

NPDES: List of Active NPDES Permits

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

Date of Government Version: 10/13/2009
Date Data Arrived at EDR: 10/14/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 34

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

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

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

Source: Department of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 12/29/2009
Next Scheduled EDR Contact: 04/12/2010
Data Release Frequency: Varies

BEA: BASELINE ENVIRONMENTAL ASSESSMENT DATABASE

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

Date of Government Version: 12/02/2009
Date Data Arrived at EDR: 12/04/2009
Date Made Active in Reports: 12/31/2009
Number of Days to Update: 27

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

INDIAN RESERV: Indian Reservations

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

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

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

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

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

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

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

COAL ASH: Coal Ash Disposal Sites
Coal fired power plants in Southeast Michigan that have coal ash handling on site.

Date of Government Version: 10/29/2009
Date Data Arrived at EDR: 11/05/2009
Date Made Active in Reports: 11/17/2009
Number of Days to Update: 12
Source: Department of Environmental Quality
Telephone: 586-753-3754
Last EDR Contact: 10/26/2009
Next Scheduled EDR Contact: 01/25/2010
Data Release Frequency: Varies

COAL ASH DOE: Sleam-Electric Plan Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: Varies

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

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339
Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 10/23/2009
Next Scheduled EDR Contact: 02/01/2010
Data Release Frequency: N/A

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 01/01/2008
Date Data Arrived at EDR: 02/18/2009
Date Made Active in Reports: 05/29/2009
Number of Days to Update: 100
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 11/13/2009
Next Scheduled EDR Contact: 02/15/2010
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 09/21/2009
Date Data Arrived at EDR: 09/25/2009
Date Made Active in Reports: 11/09/2009
Number of Days to Update: 45
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 12/15/2009
Next Scheduled EDR Contact: 03/29/2010
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.

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/21/2009
Next Scheduled EDR Contact: 04/05/2010
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.

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 2003 & 2009 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

PCC WEST
660 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

TARGET PROPERTY COORDINATES

Latitude (North):	42.61770 - 42° 37' 3.7''
Longitude (West):	83.2658 - 83° 15' 56.9''
Universal Tranverse Mercator:	Zone 17
UTM X (Meters):	314168.2
UTM Y (Meters):	4720636.5
Elevation:	939 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
Northeast Map:	42083-F2 ROCHESTER, MI
Most Recent Revision:	1997
East Map:	42083-E2 BIRMINGHAM, MI
Most Recent Revision:	1981

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).

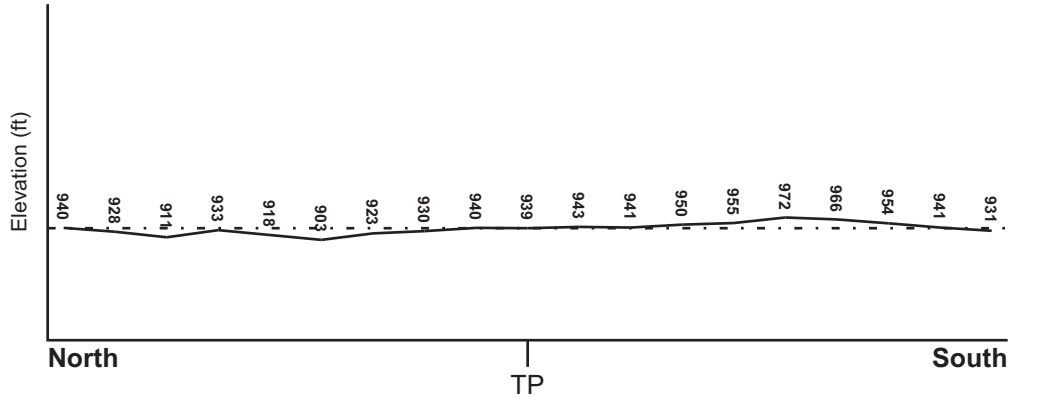
TOPOGRAPHIC INFORMATION

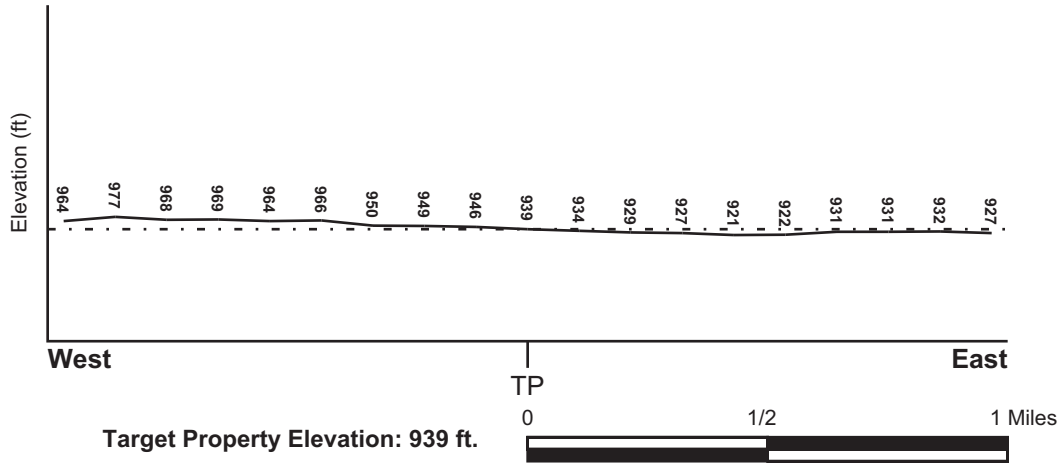
Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient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

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ENE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES





Target Property Elevation: 939 ft.

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

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

Flood Plain Panel at Target Property: 2601770010B

Additional Panels in search area: 2602630015B
2601690005B
2601690004C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
PONTIAC SOUTH	Not Available

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
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

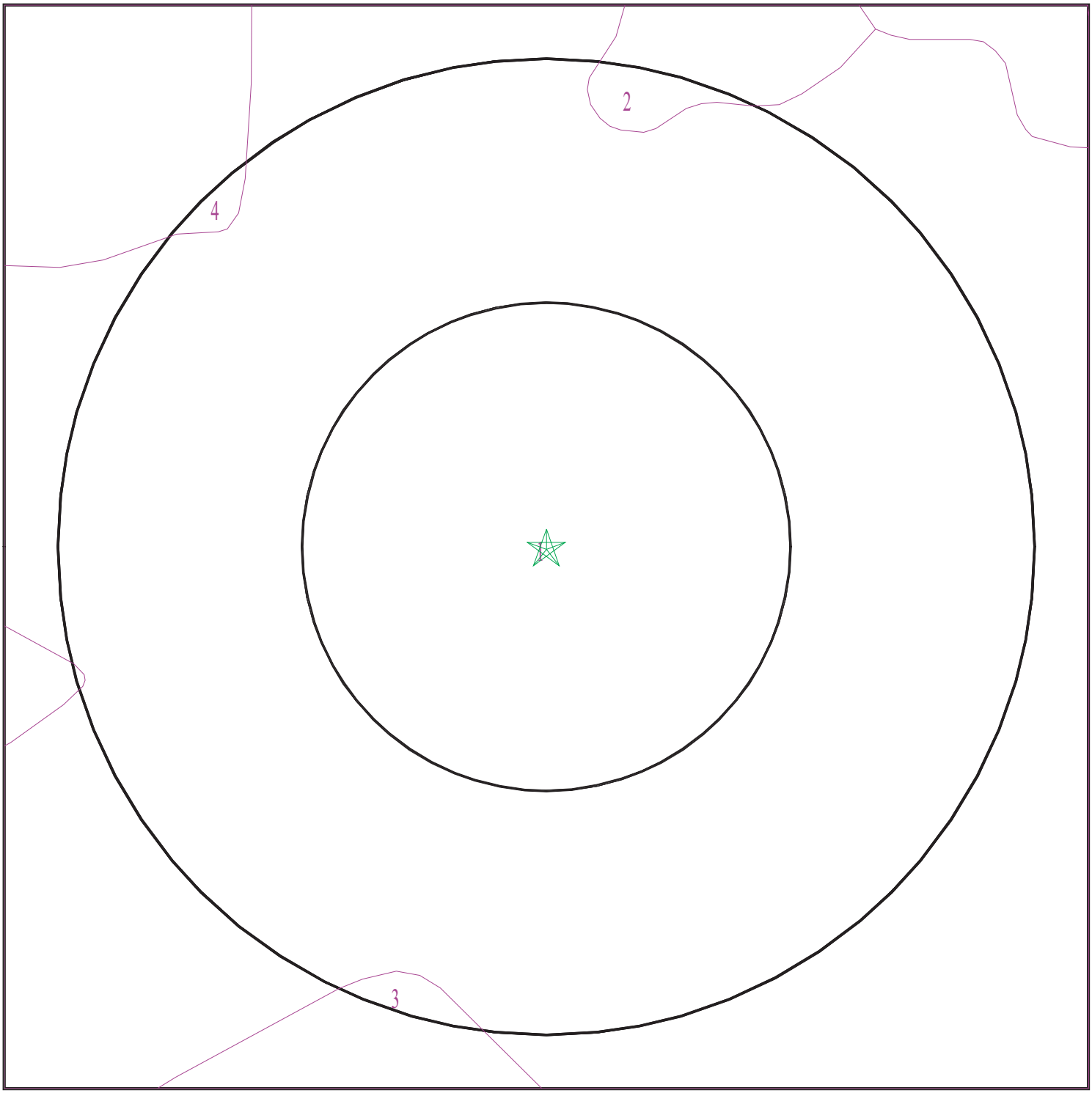
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 2672069.2s



Target Property
SSURGO Soil
Water

SITE NAME:	PCC West	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	660 South Boulevard East Pontiac MI 48341	CONTACT:	Moriah Bloom
LAT/LONG:	42.6177 / 83.2658	INQUIRY #:	2672069.2s
		DATE:	January 07, 2010 11:24 am

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

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

Soil Map ID: 1

Soil Component Name: 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: Marlette

Soil Surface Texture: sandy loam

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

Soil Drainage Class: Well drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 130 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
2	7 inches	22 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
3	22 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6
4	31 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	11 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
2	11 inches	31 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4
3	31 inches	59 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.4

Soil Map ID: 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.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Udorthents

Soil Surface Texture: loam

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

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

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP

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

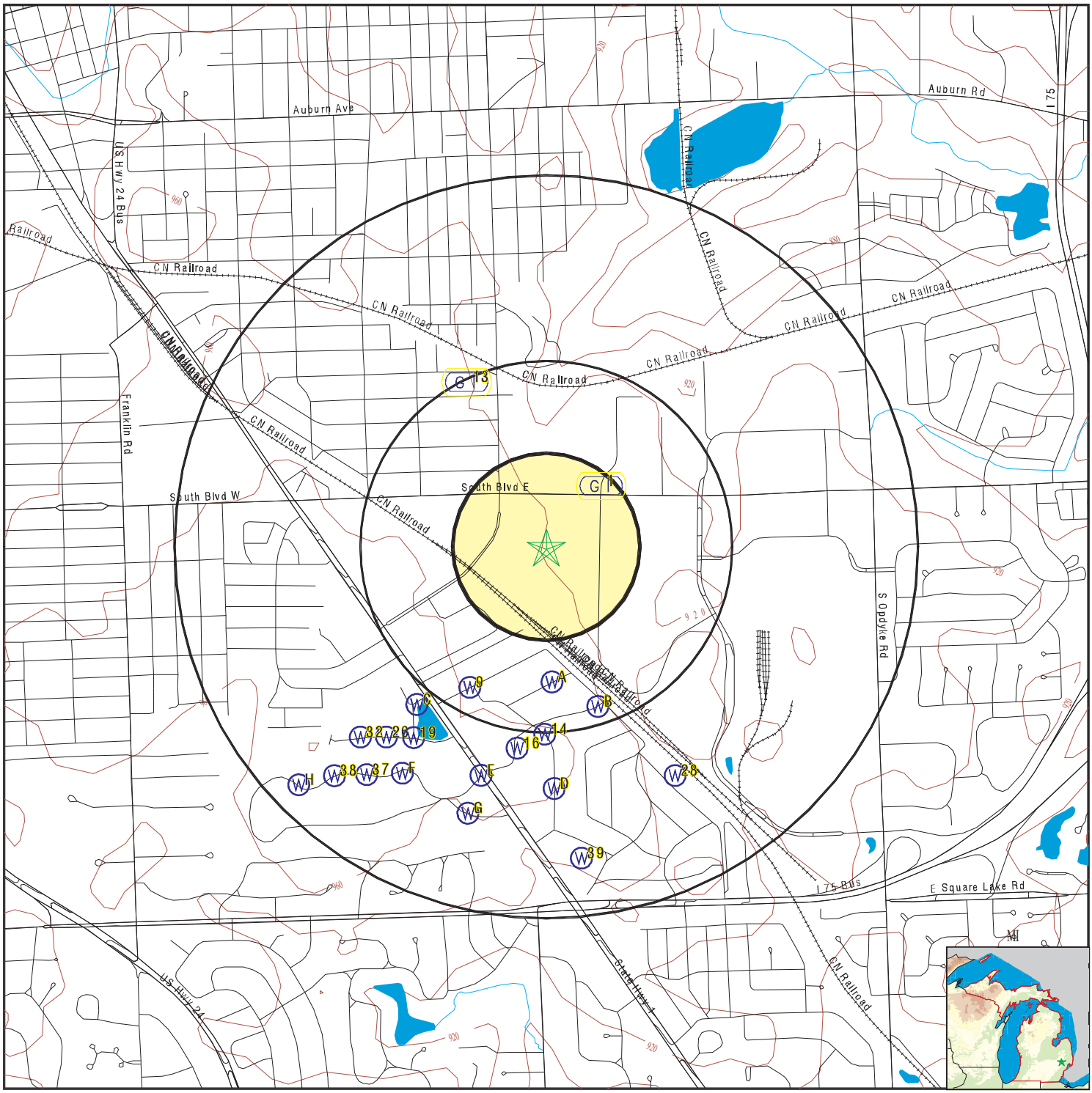
MAP ID	WELL ID	LOCATION FROM TP
A2	MI20244850	1/4 - 1/2 Mile South
A3	MI20244851	1/4 - 1/2 Mile South
A4	MI20244849	1/4 - 1/2 Mile South
A5	MI20244858	1/4 - 1/2 Mile South
A6	MI20244848	1/4 - 1/2 Mile South
A7	MI20244847	1/4 - 1/2 Mile South
A8	MI20244846	1/4 - 1/2 Mile South
9	MI20244861	1/4 - 1/2 Mile SSW
B10	MI20244856	1/4 - 1/2 Mile SSE
B11	MI20244845	1/4 - 1/2 Mile SSE
B12	MI20244857	1/4 - 1/2 Mile SSE
14	MI20244852	1/2 - 1 Mile South
C15	MI20244879	1/2 - 1 Mile SW
16	MI20261704	1/2 - 1 Mile South
C17	MI20244880	1/2 - 1 Mile SW
C18	MI20260415	1/2 - 1 Mile SW
19	MI20244881	1/2 - 1 Mile SW
D20	MI20244853	1/2 - 1 Mile South
E21	MI20244883	1/2 - 1 Mile SSW
E22	MI20244884	1/2 - 1 Mile SSW
D23	MI20244854	1/2 - 1 Mile South
D24	MI20244855	1/2 - 1 Mile South
D25	MI20241192	1/2 - 1 Mile South
26	MI20244882	1/2 - 1 Mile SW
F27	MI20244862	1/2 - 1 Mile SSW
28	MI20244859	1/2 - 1 Mile SSE
F29	MI20244866	1/2 - 1 Mile SSW
F30	MI20244865	1/2 - 1 Mile SSW
F31	MI20244864	1/2 - 1 Mile SSW
32	MI20261282	1/2 - 1 Mile SW
G33	MI20244863	1/2 - 1 Mile SSW
F34	MI20244867	1/2 - 1 Mile SW
F35	MI20244868	1/2 - 1 Mile SW
G36	MI20260650	1/2 - 1 Mile SSW
37	MI20244869	1/2 - 1 Mile SW
38	MI20244870	1/2 - 1 Mile SW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
39	MI20244860	1/2 - 1 Mile South
H40	MI20244872	1/2 - 1 Mile SW
H41	MI20244874	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 2672069.2s



0 1/4 1/2 1 Miles

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

SITE NAME:	PCC West	CLIENT:	ARCADIS U.S., Inc.
ADDRESS:	660 South Boulevard East Pontiac MI 48341	CONTACT:	Moriah Bloom
		INQUIRY #:	2672069.2s
LAT/LONG:	42.6177 / 83.2658	DATE:	January 07, 2010 11:24 am

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Map ID
Direction
Distance
Elevation | Database | EDR ID Number

A2
South
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		
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
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		

A3
South
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
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		

A4
South
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
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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A5 **South** **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
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		

A6
South
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
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		

A7
South
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		
Case depth:	0		
Screen frm:	109		
Screen to:	113		
Swl:	61		
Test depth:	70		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61234455		
Longitude:	-83.26570683		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	948	Elev dif:	0
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	20
Pct aq d:	20	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	12

Pct cm d:	12	Pct cm r:	0
Pct pcm:	68	Pct pcm d:	68
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	23	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	52	A pct aq2:	44
A pct maq2:	0	A pct pcm2:	56
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	65
Pct pcm 1:	35	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	50	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	52		
Horiz Conduct:	44.23635		
Vert Conduct:	.01793		
T2:	2300.29		
D50plek:	199.26819		

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

A8
South
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
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		

9
SSW **MI WELLS** **MI20244861**
1/4 - 1/2 Mile
Higher

Wellid:	63000003885	Import id:	63028004001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ALVIN E TAYLOR		
Well addr:	135 BLOOMFIELD BD		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1968-07-08 00:00:00.000	Case type:	Unknown
Case dia:	4		

Case depth:	120		
Screen frm:	120		
Screen to:	125		
Swl:	100		
Test depth:	121		
Test hours:	2.5		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61221715		
Longitude:	-83.26982473		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	10
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	34
Pct aq d:	34	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	1
Pct cm d:	1	Pct cm r:	0
Pct pcm:	40	Pct pcm d:	40
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	25	A pct aq:	96
A pct maq:	0	A pct pcm:	0
A pct cm:	4	A pct na:	0
A thickns2:	25	A pct aq2:	96
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	4	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Medium To Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	50	Pct na 3:	50
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	95
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	5
Pct aq 6:	96	Pct maq 6:	0
Pct cm 6:	4	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	25		
Horiz Conduct:	74		
Vert Conduct:	.0025		
T2:	1850.0001		
D50plek:	77.91476		

B10
SSE
1/4 - 1/2 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
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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
B11 **SSE** **1/4 - 1/2 Mile** **Higher**	**MI WELLS**	**MI20244845**

Wellid:	63000003869	Import id:	63028003001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	VAL SCHLEGA		
Well addr:	285 EAST BERKSHIRE		
Well depth:	200		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	248
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	196		
Screen to:	200		
Swl:	60		
Test depth:	100		
Test hours:	8		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.61150005		
Longitude:	-83.26302563		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	941	Elev dif:	7
Elev miv:	948	Aq code:	Not Reported
Aq flag:	Lithology Problem (Drift under Rock)	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	55	A pct aq:	64
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	36
A thickns2:	140	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	61	A pct na2:	14
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0

Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

B12
SSE
1/4 - 1/2 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
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		

14
South
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
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		

Map ID Direction Distance Elevation		Database	EDR ID Number
C15 SW 1/2 - 1 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		
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
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		

16
South
1/2 - 1 Mile
Higher

MI WELLS **MI20261704**

Wellid:	63000022498	Import id:	Not Reported
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	Threets		
Well addr:	68 East Berkshire		
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1928
Const date:	2002-05-04 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

Case depth:	140		
Screen frm:	136		
Screen to:	140		
Swl:	60		
Test depth:	80		
Test hours:	1		
Test rate:	40	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.60984921		
Longitude:	-83.26732914		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	964
Elev miv:	964	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	39
Pct aq d:	39	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	61
Pct cm d:	61	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	80	A pct aq2:	25
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	25	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	80		
Horiz Conduct:	75.00008		
Vert Conduct:	.00013		
T2:	6000.006		
D50plek:	762.33555		

C17
SW
1/2 - 1 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)	Pct aq:	0
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

Pct cm d:	0	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-9
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	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
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		

Map ID Direction Distance Elevation		Database	EDR ID Number
C18 SW 1/2 - 1 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		
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
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		

19
SW
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
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		

D20
South
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		
Case depth:	242		
Screen frm:	239.83		
Screen to:	245		
Swl:	90		
Test depth:	97		
Test hours:	1.8		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60847575		
Longitude:	-83.26538663		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	16
Pct aq d:	16	Pct aq r:	0
Pct maq:	8	Pct maq d:	8
Pct maq r:	0	Pct cm:	0

Pct cm d:	0	Pct cm r:	0
Pct pcm:	42	Pct pcm d:	42
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	155	A pct aq2:	10
A pct maq2:	13	A pct pcm2:	23
A pct cm2:	0	A pct na2:	55
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	15
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	85	Pct na 1:	0
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	75	Pct na 5:	25
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	100	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	100
Pct aq 8:	0	Pct maq 8:	40
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	60	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
E21 **SSW** **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
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		

E22
SSW
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
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		

D23
South
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

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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
D24 **South** **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

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		

D25
South
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		

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

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		

26
SW
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		
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
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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F27 **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		
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
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		

28
SSE **MI WELLS** **MI20244859**
1/2 - 1 Mile
Lower

Wellid:	63000003883	Import id:	63028003301
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #1		
Well depth:	127		
Well type:	Type I public		
Wssn:	6080		
Well num:	1	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	8		

Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	125
Latitude:	42.608778		
Longitude:	-83.258992		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	934		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	932	Elev dif:	2
Elev miv:	934	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	67
Pct cm d:	67	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	75	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	60	Pct maq 6:	0
Pct cm 6:	40	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

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

F29
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		
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
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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
F30		
SSW	**MI WELLS**	**MI20244865**
1/2 - 1 Mile		
Higher		

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
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		

F31
SSW
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
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		

32
SW
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
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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G33		
SSW	**MI WELLS**	**MI20244863**
1/2 - 1 Mile		
Higher		

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
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		

F34
SW
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		

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

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		

F35
SW
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

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		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
G36 **SSW** **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		
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
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		

37
SW
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
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		

38
SW
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
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		

Map ID Direction Distance Elevation		Database	EDR ID Number
39 South 1/2 - 1 Mile Higher		**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:	13
Pct aq d:	13	Pct aq r:	0
Pct maq:	6	Pct maq d:	6
Pct maq r:	0	Pct cm:	41
Pct cm d:	41	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:	30	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:	19
A pct maq2:	8	A pct pcm2:	17
A pct cm2:	56	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:	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:	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		

H40
SW
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
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		

H41
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
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		

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 2003 & 2009 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

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

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

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Environmental Quality
Telephone: 517-335-9218

OTHER STATE DATABASE INFORMATION

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

RADON

State Database: MI Radon
Source: Department of Environmental Quality
Telephone: 517-335-9551
Radon Test Results

Michigan Radon Test Results
Source: Department of Environmental Quality
Telephone: 517-335-8037
These results are from test kits distributed by the local health departments and used by Michigan residents. There is no way of knowing whether the devices were used properly, whether there are duplicates (or repeat verification) test (i.e., more than one sample per home), etc.

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

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

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

STREET AND ADDRESS INFORMATION

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APPENDIX D

Photograph Log

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 1 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** Northeast **COMMENT:** Diesel and gasoline dispensers and location of diesel and gasoline underground storage tanks	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 2 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Vehicle testing area	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 3 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Aboveground hydraulic lift	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 4 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Slight staining within test area	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 5 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Pump room	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 6 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Lab area	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 7 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Former flammable material storage area	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 8 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Slight staining in equipment area	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 9 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** **COMMENT:** Drum and container storage area for remaining chemicals, wastes and petroleum products	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 10 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** North **COMMENT:** Monitoring wells on north side of Building 34	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 11 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** Northwest **COMMENT:** Parking area northwest of Building 34	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 12 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** West **COMMENT:** Storage area on the west side of the Site	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 13 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** Southwest **COMMENT:** Storage area south of Building 34	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 14 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** Southeast **COMMENT:** Storage area south of Building 34	

Phase I Environmental Site Assessment
660 South Boulevard East, Pontiac, MI

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 15 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** East **COMMENT:** Disconnected piping and dumpsters south of Building 34	

CLIENT: Motors Liquidation Company	**SITE NAME: Pontiac Centerpoint Campus - West**
PROJECT #: BN011531700	**SITE LOCATION: 660 South Boulevard East, Pontiac, MI**
PHOTOGRAPH #: 16 **PHOTOGRAPHER:** MB **DATE:** 1/13/10 **DIRECTION:** West **COMMENT:** South side of Building 34	

APPENDIX E

Qualifications of Environmental Professionals

ARCADIS

Education
BSE Chemical Engineering, University of Michigan, 2006

Years of Experience
Total – 3.5 years
With ARCADIS – 3.5 years

Professional Registrations
Certified Construction Storm Water Operator
Certified Industrial Storm Water Operator

Moriah Bloom

Environmental Specialist II

Ms. Bloom has 3.5 years of environmental experience as a consultant. Ms. Bloom's focus has been compliance assistance (Spill Prevention Control and Countermeasures [SPCC] Plans, Pollution Incident Prevention Plans (PIPP), Storm Water Pollution Prevention Plans (SWPPP), Integrated Contingency Plans (ICP), Greenhouse Gas Emission Inventories, assistance with Compliance Audits, as well as hazardous and non-hazardous waste management).

Ms. Bloom has approximately 3 months of internship experience from the Chemistry Department at Pfizer Inc. Ms. Bloom's focus was a case study comparing a new separation instrument to existing methods of separation. Ms. Bloom was one of the recipients of the Pfizer Green Chemistry Award for her work on this project.

Compliance Assistance

Spill Prevention Control and Countermeasures Plans, Pollution Incident Prevention Plans, and Storm Water Pollution Prevention Plans, Multiple Clients and Multiple States

Ms. Bloom updated and prepared SPCC, PIP, and SWPP plans for multiple clients. Existing plans were reviewed for compliance with current regulations and changes were made accordingly. Ms. Bloom has also performed site visits in order to help edit and prepare SPCC, PIP, and SWPP plans.

Contingency Plan, Multiple Clients
Ms. Bloom updated and prepared contingency plans for multiple clients. The focus was to make sure that it complied with requirements and regulations.

Hazardous and Non-Hazardous Waste Management, Multiple Clients
Ms. Bloom helped manage the disposal of hazardous and non-hazardous waste. This was done by characterizing the waste from analytical results, the completion of waste profiles, and coordinating with transporters and waste disposal facilities.

Permit Application, Multiple Clients
Ms. Bloom has prepared Wastewater Discharge Permit Applications for two different clients. One permit included speaking to the city of Ypsilanti about discharge limits and gathering information from the plant. Ms. Bloom has also completed Permit by Rule Applications. This involved performing emission calculations.

Audits, Multiple Clients

Ms. Bloom has assisted in compliance audits at various facilities. Ms. Bloom has performed a TSDF Audit at a full-service reconditioning plant. This included visiting the plant, reviewing records, and providing a report.

Pilot Test (Water treatment system), MACSTEEL

Ms. Bloom has helped perform a pilot test that involved the treatment of groundwater filled with metals and that was highly basic. The pilot test involved running groundwater through a treatment system and taking samples, which were sent to a lab to be tested.

Data processing, Multiple Clients

Ms. Bloom has helped edit and add data to emission report spreadsheets. This included gathering information from documents and turning it into a spreadsheet format.

Climate Change (Greenhouse Gas Emission Inventory), Multiple Clients

Ms. Bloom has performed calculations and assisted with providing a Greenhouse Gas Emission Inventory following the USEPA Climate Leaders Protocol. This included gathering information from the USEPA Climate Leaders Greenhouse Gas Inventory Protocol, providing an emission inventory, and preparing an Inventory Management Plan. Ms. Bloom has also assisted with providing a Greenhouse Gas Emission Inventory following the Climate Registry Protocol.

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