



March 3, 2010

BN015317.0017

Robert W. Hare, P.E., CHMM
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Subject: Phase I Environmental Site Assessment
MLC ID 1305
Pontiac Centerpoint Campus - Central
2000 Centerpoint Parkway
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 Inc. (ARCADIS) personnel and a review of available and pertinent background information.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Stephen P. McCarthy". The signature is stylized with a large, looping initial "S" and a clear "P" and "M".

Stephen P. McCarthy
Principal Scientist

Attachments

**Phase I Environmental Site Assessment
MLC ID 1305
Pontiac Centerpoint Campus - Central
2000 Centerpoint Parkway
Pontiac, Michigan 48341**

**March 3, 2010
ARCADIS Project No. BN015317.0017**

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

Prepared by
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The environmental assessment described herein was conducted by the undersigned, of ARCADIS U.S. Inc (ARCADIS). ARCADIS's investigation consisted solely of the activities described in the Introduction of this report, in accordance with 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:



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Senior Geologist

EXECUTIVE SUMMARY

ARCADIS U.S., Inc (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 2000 Centerpoint Parkway, 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 currently consists of a 1.2 million square-foot building, asphalt-paved parking areas, and vegetated landscaped areas. The Site is currently unoccupied administrative offices and supporting areas. The Site was historically contiguous with the Pontiac Centerpoint campus that included more than 60 manufacturing buildings on over 400 acres. The Site was recently parceled from the campus and transferred as an asset from General Motors Company (GM) to Motor Liquidation Company (MLC) in late 2009 as a part of bankruptcy proceedings.

Based on the historical sources reviewed, the Site consisted of unimproved land as of 1907. In 1927, the Site was improved by GM with a large assembly plant occupied by Pontiac Central Manufacturing and Assembly and Greyhound Bus and Truck. At this time, the Site was contiguous with the west adjacent property, which was located at 660 South Boulevard. The former Pontiac Central facility was utilized for the production of medium and heavy duty trucks and buses. Major manufacturing activities associated with the production of these vehicles included machining, stamping, plating, smelting, fiberglass laminating, heat treating, and painting. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was decommissioned. The concrete footings, bare steel beams and frames of the Pontiac Central Manufacturing plant remained on-site upon the completion of the decommissioning activities and was used as the frame during the redevelopment of the Centerpoint Campus – Central building, which was completed in 1996. Vehicle design "mock-up" operations were conducted between 1996 and 2005, which consisted of small-scale development and custom design of test parts. Administrative and supporting operations were also conducted at the Site between 1996 and 2008. The facility was closed in October 2008 and has remained vacant since 2008 to present.

As a result of the findings of multiple on-site and off-site subsurface investigation activities performed from 1991 to 2009, the Site and the surrounding Centerpoint Campus are subject to Resource Conservation and Recovery Act (RCRA) Corrective Action and regulation under the US Environmental Protection Agency (US EPA) and the Michigan Department of Environmental Quality (MDEQ). The MDEQ is now known as the Michigan Department of Natural Resources and Environment (MDNRE).

ARCADIS performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-05 of the property located at 2000 Centerpoint Parkway, Pontiac, 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:

- Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Central Manufacturing and Assembly Plant, the operations had the potential to impact areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.
- According to the Environmental Data Resources, Inc. (EDR) database report, an environmental lien is identified for the Site. The LIENS database lists tax code 19-03-101-003 and the facility that is in Section 3 and 4, Township 2N, and Range 10E. The description is Assessor Plat 98, 110.
- ARCADIS's review of historical aerial photographs and topographic maps indicate that a series of railroad tracks associated with the Grand Trunk Western Railroad were formerly located on the east and west portions of the Site. Railroad tracks extended north into former Buildings 29 and 73. 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 properties surrounding the Site to the east, south and west were historically parts of the GM Centerpoint campus that at one time included more than 60 manufacturing buildings on more than 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 and west adjacent properties and a waste water treatment plant was constructed to the southeast. The industrial operations at the east adjacent Pontiac Assembly and the west adjacent Pontiac Center point Campus - West ceased in 2009. The southeast adjacent waste water treatment plant received/treated its last batch of water in December 2009 according to the Site contact, Robert Hare. According to the EDR reports several on-going environmental investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (now known as MDNRE) and the US EPA oversight including a leaking underground storage tank (LUST) investigation and CORRACTS (corrective action report). Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus, there is potential for impact to areas of the Site which have not been previously investigated due to the presence of building foundations and/or utility corridors.

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- A User Questionnaire
- B Historical Research Documentation
- C EDR Radius Map Report
- D Photograph Log
- E Qualifications of Environmental Professional(s)

1.0 INTRODUCTION

ARCADIS Inc., (ARCADIS) performed a Phase I Environmental Site Assessment (ESA) of the property located at 2000 Centerpoint Parkway, Pontiac, Oakland County, Michigan (the “Site”). The Site consists of approximately 70 acres of land and includes an approximately 1,200,000-square foot multi-story office/manufacturing building. The Site is currently vacant and was once a part of the larger Pontiac Centerpoint campus that included more than 60 manufacturing buildings on more than 400 acres.

1.1 Purpose

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

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

1.2 Detailed Scope of Services

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

- a reconnaissance-level visit of the Site to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for on-site releases of hazardous materials and petroleum products
- drive-by observations of adjacent properties and the site vicinity
- interviews with people familiar with the Site, as available
- review of regulatory and local agency files, as necessary
- review of historical documents, as available
- preparation of a report presenting our findings, including a summary of conclusions 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's assessment was performed. It must be recognized, however, that an ESA is intended for the purpose of evaluating the potential for contamination through limited research and investigative activities and in no way represents a conclusive or complete site characterization. Conditions in other parts of the project site may vary from those at the locations where data were collected. ARCADIS's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100% confidence in ESA conclusions cannot reasonably be achieved.

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

1.5 User Reliance

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

2.0 SITE DESCRIPTION

2.1 Location and Legal Description

The Site is located at 2000 Centerpoint Parkway, Pontiac, Oakland County, Michigan. The Site is located on the south side of South Boulevard, west of Centerpoint Parkway and east of Ring Road.

Based on information obtained from the Oakland County Commercial and Industrial Profile, the Site is identified by Parcel ID 19-03-126-008 and legal description is as follows: T2N, R10E, SEC 3 ASSESSOR'S PLAT NO 110 PART OF LOT 5 BEG AT PT DIST N 87-23-00 W 49.70 FT FROM N ¼ COR, TH S 02-36-47 W 1125.94 FT, TH ALG CURVE TO LEFT, RAD 810 FT, CHORD BEARS S 13-41-13 E 454.68 FT, DIST OF 460.87 FT, TH S 29-59-13 E 135.67 FT, TH S 60-00-47 W 498.29 FT, TH ALG CURVE TO LEFT, RAD 347 FT, CHORD BEARS S 41-09-50 W 224.22 FT, DIST OF 228.31 FT, TH S 18-13-45 W 175.45 FT, TH S 22-18-53 W 347.12 FT, TH ALG CURVE TO RIGHT, RAD 269.50 FT, CHORD BEARS S 80-01-02 W 455.61 FT, DIST OF 542.83 FT, TH N 42-16-49 W 408.58 FT, TH ALG CURVE TO RIGHT, RAD 269.50 FT, CHORD BEARS N 19-50-14 W 205.77 FT, DIST OF 211.13 FT, TH N 02-36-20 E 2236.04 FT TO N SEC LINE, TH S 87-23-00 E 1334.96 FT TO BEG EXC THAT PART IN SOUTH BLVD 3-15-94 FR 003.

Refer to Figure 1 for map showing the Site location.

2.2 Site and Vicinity General Characteristics

The Site is generally a rectangular-shaped tract of land that is situated in a mixed industrial/commercial/residential area. The Site is located in Oakland County and is within the city limits of Pontiac. The industrial properties are concentrated along the east and west of the Site, with residential areas situated to the south of the Site beyond the train tracks. Commercial properties are adjacent to the north of the Site beyond South Boulevard.

2.3 Current Use of the Site

The Site currently consists of a 1.2 million-square foot building, asphalt-paved parking areas, and vegetated landscaped areas. The Site currently contains unoccupied administrative offices and supporting areas.

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

The Site is improved with a 1,200,000-square foot, multi-story office/manufacturing building. The Site building is comprised of approximately 85% offices and 15% manufacturing area. The building is surrounded on all sides by asphalt paved parking lots.

The Site reconnaissance activities were performed on January 13, 2010. During the site visit the outside portions of the Site were covered by approximately 6 inches of snow and therefore ARCADIS visual observations of the property surfaces were limited.

The Site is currently closed. The building is locked and monitored seven days a week by security.

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

Although the Site is closed, minimal solid waste is generated on-site associated with property up-keep. The solid waste generated is transported in a hopper to Pontiac Centerpoint Campus West facility for proper disposal.

2.5 Current Uses of Adjoining Properties

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

- The Site is abutted to the north by South Boulevard East followed by a commercial property (543-593 Bradford Street) and unoccupied industrial properties (501 Tex Avenue).
- The Site is abutted to the west by Ring Road. Beyond Ring Road, to the west, is Pontiac Centerpoint Campus – West (660 South Boulevard East).
- The Site is abutted to the south by Grand Trunk Western Railroad. There is a WWTP and three additional GM structures located southeast of the Site.
- The Site is abutted to the east by Centerpoint Parkway. Beyond Centerpoint Parkway, to the east and southeast, is GM Vehicle Manufacturing – Pontiac Assembly (2100 South Opdyke Road). Motor City Movies (1999 Centerpoint Parkway) is located to the northeast of Centerpoint Parkway.

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. However, according to the Oakland County Commercial and Industrial Property Profile Parcel ID 19-03-126-008 was acquired by General Motors Corporation from BNP Paribas Leasing Company on April 28, 2008.

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.

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:** No.
- 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.
- 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:** Unknown.
- 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. See Corrective Action documentation.

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

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

3.6 Owner, Property Manager, and Occupant Information

According to the Oakland County Commercial and Industrial Property Profile, the Site is owned by General Motors Corporation. General Motors Corporation has recently reorganized as a corporation and has transferred the Site as an asset to the Motors Liquidation Company (MLC).

This facility has been unoccupied since October 2008.

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 Investigation (RFI) Report, Centerpoint Business Campus, completed by Conestoga-Rovers & Associates (CRA) dated October 21, 2005.
- Corrective Measures Proposal, Centerpoint GM Campus, completed by CRA dated April 21, 2006.
- Letter of Correspondence RE: Response to Comments and Final Decisions, issued by the Environmental Protection Agency to General Motors Corporation, dated August 3, 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, Pontiac Centerpoint Campus, completed by CRA, dated November 23, 2007.
- Phase I Environmental Site Assessment (ESA) completed by Conestoga-Rovers & Associates (CRA) dated December 2008.
- Memorandum RE: Post – MPE Evaluation of Potential Exposures, General Motors Pontiac Centerpoint Campus, Former Building 33, LNAPL Area, completed by CRA, dated April 3, 2009.

CRA, with guidance from the US 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 in “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 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		Southwest of Site on Pontiac Centerpoint Campus - West	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
#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

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#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;	X		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 west of Site (Pontiac Centerpoint Campus - West)	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		West of Site on Pontiac Centerpoint Campus - West	Institutional controls such as land use restriction to commercial/industrial use and a restriction preventing shallow groundwater from being used as drinking water
#53	Building 33 Free Product Area		West of Site on Pontiac Centerpoint Campus - West	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

SWMU/AOI ID	Description	On-Site	Adjoining Property	Corrective Measures
#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 1 st 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

The two AOIs/SWMUs identified at the Site have been extensively investigated by CRA from 1991 to the present. Additional details of the historical investigations of these areas are summarized below:

- **AOI #16 - The former Building 29 Tank Farm:** is located on the southeast portion of the Site. The former Building 29 Tank Farm consisted of nine (9) 12,000-gallon steel USTs installed in 1946. The USTs were located near the south exterior wall of Building 29 and contained engine oil, transmission fluids, axle fluids, and power steering fluids.

The UST farm was taken out of service during the summer of 1991 and the USTs were excavated and removed in October 1991 in conjunction with the redevelopment of the Centerpoint Business Campus. The several constituents, including benzene, toluene, ethylbenzene, and xylene (BTEX) and polynuclear aromatics (PNA), were identified in confirmatory soil samples collected from soils surrounding the former tank farm following the UST removals (MDEQ (now known as MDNRE) Release Number C-2149-91). CRA assumed the soil contamination was due to routine filling operations, since the USTs appeared undamaged. Approximately 3,000 cubic yards (cy) of soil was removed from the Building 29 tank farm area during multiple remedial excavations, was treated, and then used as backfill for the tank excavation or stockpiled.

CRA further investigated the former UST farm in January 1994. Six (6) additional boreholes were advanced and soil samples were collected. Since there were no detections of compounds in the verification samples at concentrations above the determined applicable clean up criteria, this area was considered remediated. Reportedly, the results of the investigations were presented in the Building 29 Underground Storage Tank Area – Final in 1995. According to CRA, this report was approved by the Michigan Department of Natural Resources (MDNR) in a letter dated March 17, 1995 and the Building 29 MDEQ (now known as MDNRE) release number was subsequently closed.

- **AOI #50 consists of the DUCO Stores UST Area and the DUCO Stores Fuel Line Study Area:** The DUCO Stores UST Area is located on the west adjacent property (Pontiac Centerpoint Campus West); however, the area of investigation extended to the Site due to the migration of contamination in utility corridors and piping. The DUCO Stores Fuel Line Study area is located on the west adjacent Pontiac Centerpoint Campus West property, and area of impact did not extend to the Site.

The west adjacent 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 (Now known as MDNRE) Release Number C-0235-90 – associated with the west adjacent property). In May 1990, gasoline was discovered infiltrating into a storm sewer, which was located near the DUCO Stores fuel lines (MDEQ (Now known as MDNRE) Release Number C-0776-90 – associated with the west adjacent property). Following both instances, the sewer was plugged and the sewer contents removed, as necessary, by a vacuum tanker truck.

In June 1990, GM retained Northeast Research Institute, Inc. (NERI) to perform a soil gas survey of the area, which consisted of 53 sample locations from 18 inches bgs. The results of the survey were presented in the report entitled Final Report on the Findings of the Petrex Soil Gas Survey Conducted for the General Motors Truck and Bus Group at the DUCO Stores Tank Farm Site in Pontiac, Michigan (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, extending to the Site.

In August 1991, all eight USTs from the west adjacent DUCO Store were removed and the surrounding soils were excavated. During these excavation activities, diesel fuel was observed seeping into the excavation (MDEQ (now known as MDNRE) Release Number C-1831-91 – associated with the west adjacent site). Approximately 100 gallons of diesel fuel were recovered before seepage ceased. Benzene, benzo(a)anthracene, and chrysene were identified above the then current Michigan Act 307 Type B DCC. Approximately 3,000 cy of soil was excavated and treated on-site. Further excavation to the east (the Site) 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. Additional excavation activities were performed of the UST tank farm area as well as CRA installed additional soil boring to delineate the extent of impacted soils. Results of these investigations were summarized in the DUCO Stores Study Area – Final Report prepared by CRA in 1994. According to CRA, DUCO Stores Report concluded that minor residual concentrations of BTEX and PNAs remained in soils at inaccessible locations. According to the ARCADIS “Remediation Cost Estimate Summary” additional actions requested by the MDEQ were performed in August 2009 by CRA which consisted of groundwater sampling and analysis. However, at the date of the publication, the data was not available from CRA. The CRA Project Manager indicated that they anticipate that the results of the testing and the submittal of a final report will most likely be sufficient to close the AOI associated with this area.

The following paragraphs summarize the previous environmental investigations reviewed as a part of this assessment in greater detail.

A Corrective Measures Proposal (CMP) issued by CRA on April 21, 2006 identified the remedial actions necessary to address the SWMUs and AOIs listed in the table above. The US EPA reviewed the CMP and responded with final remedial actions required in a letter of correspondence (dated August 3, 2006). An Administrative Order On Consent (Consent Order) was agreed upon between US EPA Agency Region 5, General Motors and CRA in May 2007. The status of Final Corrective Measures in the Consent Order that applied specifically to the Site was as follows:

- AOI #50 [DUCO Stores underground storage tank (UST) area and fuel line area] had not been closed per Michigan’s Public Act, Natural Resource and Environment Protection Act (NREPA) 451 Part 213 1994, as amended (PA 451 Part 213). CRA proposed this area for closure under PA 451 Part 213 and institutional controls.

- AOI# 16 – Former Building 29 Tank Farm corrective measures included institutional controls to restrict land use to industrial/commercial uses and resource use restriction to prevent shallow ground water in an unconfined aquifer from being used as drinking water. Additional Corrective Measures were proposed that applied to the entire GM Centerpoint Campus, including the Site and are summarized below:
- Maintenance of existing groundwater and land use restrictions for the entire Centerpoint Campus to ensure that the human health risk assessment assumptions on future on-site groundwater and land use remain valid. Restrictions of groundwater use and land use have been established through a Declaration of Restrictive Covenant filed with the Oakland County Clerk/Register of Deeds on April 13, 2007. Note that the deed restricted area covers most or all of the Central Parcel as a matter of policy for old manufacturing sites. However, only select areas of the Central Parcel required the restrictions under the EPA-approved documents.
- Establish/maintain financial assurance for completion of corrective measures and long-term requirements (institutional controls). This applies to the overall Centerpoint Campus. There are no long term groundwater monitoring requirements for the Centerpoint Campus - Central parcel identified in the EPA-approved November 2007 Long-Term Groundwater Monitoring Plan.

The CMP also contains other Corrective Measures for the identified SWMU's/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 US EPA's 2006 Response to Comments and Final Decision letter, the US EPA chose the final corrective action remedy for the Site. The US 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 by 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. GM removed soil contaminated with lead at AOI #44, 71, and 79 and removed soil contaminated with solvents and paint at AOI #75, 82, and 83. In addition, GM recovered LNAPL from groundwater at AOI #50 and 53. The US 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. The two areas described are not located on the Site. 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).

During the course of the 2008 Phase I ESA, performed by CRA, the following potential areas of concern were identified by CRA:

- CRA identified historic site operations as an environmental concern. Research completed by CRA indicated that the Site historically operated as the Pontiac Central Manufacturing Assembly Plant from 1927 to 1990, which was utilized for the production of medium and heavy duty trucks and buses. The on-site primary manufacturing activities included the production of vehicles utilizing various types of equipment (e.g. machining, stamping, plating, smelting, fiberglass laminating, heat treating, painting, and sealing). As of August 1990, Pontiac Central Manufacturing Assembly Plant ceased operations. Demolition/remediation/redevelopment activities were conducted on the Site between 1991 and 1995 to convert the manufacturing building to an office building with mock up docks in the southern portion of the building.

During previous investigations at the Site and on the surrounding GM Centerpoint Campus (1991-1995), GM and the US EPA identified 84 Solid Waste Management Units (SWMUs)/Areas of Interest (AOIs) on the entire Campus, 50 were specifically on the Site. Most of the AOIs/SWMUs were evaluated and investigated during the Site redevelopment between 1991 and 1995. As of 1998, 19 of these AOIs and SWMUs still required some level of corrective measures. Subsequently, GM and the US EPA Region 5 Office entered into a Consent Order, agreeing to terms of the corrective measures of the 19 SWMUs/AOIs (listed in the table above). The recent Consent Order became effective on May 24, 2007. Because the Site continues to be subject to RCRA Corrective Actions and a Restrictive Covenant, the historical operations and releases would be considered a PAOC.

- CRA identified the historic adjacent and surrounding site (Centerpoint Campus) operations as an environmental concern. The Centerpoint Campus was historically used as the former GM manufacturing and industrial facilities. As previously stated, the EPA identified 84 SWMUs/AOIs on the surrounding Centerpoint Campus, including the Site. Most of the identified SWMUs/AOIs were evaluated and investigated during the Site redevelopment between 1991 and 1995. Several AOIs/SWMUs (listed in the table above) that are located on the surrounding Centerpoint Campus properties continue to be subject to RCRA Corrective Actions and a Restrictive Covenant, and in conjunction with the historical operations and releases CRA considered this to represent an environmental concern.

The 2009 multi-phase extraction (MPE) Memo proposes a scope of work to determine whether any potentially significant exposures exist due to residual petroleum impacts within the former Building 33 (within LNAPL Area 1). The memo proposes soil gas, soil, groundwater and LNAPL monitoring activities to determine the potential for explosion hazard associated with the volatilization of constituents from residual LNAPL and to determine the significance of potential exposures to any remaining hazardous constituents in residual LNAPL, and residual LNAPL-impacted soil and groundwater.

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

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. ARCADIS reviewed historical Sanborn maps provided by EDR for the years 1950 and 1970. (Appendix B).

The 1950 Sanborn map depicts the Site as improved with the primary factory building surrounded by eight auxiliary buildings.

- 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, "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 "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 auditorium and a garage area. The southeast corner of the building appears to house 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.
- West 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.
- 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 identifies South Boulevard to the north with no coverage beyond South Boulevard. According to EDR, there is no Sanborn coverage to the east and south of the Site. The Grand Trunk Railroad lines are depicted to the southwest of the Site. The west adjacent property is depicted as improved with a “boiler room” with associated water tanking, a “2-million gallon water reservoir”, “Paint Storage” building with seven “Gas & Thinner Spent Tanks” located on the outside of the building, “Greyhound Coach & Assembly Building” which contains a total of 17 spray bays, a “Dynamometer Test Building” and an “Engineering Building” which is noted as constructed in 1946. A “Coal Pile” is noted on the southwest portion of the west adjacent property.

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 recognized environmental conditions 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, 1957, 1964, 1972, 1980, 1993, 2000 and 2005.

The 1937 aerial photograph depicts the Site as developed with the main factory building and a smaller building immediately to the north of the factory building. An unpaved parking lot area is located on the northeast portion of the Site. The eastern and southeastern portions of the Site are covered by graded land most likely associated with recent Site development activities. Railroad tracks are depicted southwest and west of the main factory building on the Site. Rail car platforms and rail car storage is noted on the western portion of the Site. A long pipe is noted extending from a west adjacent building to the main factory building on the Site.

South Boulevard is present to the north of the Site on the 1937 aerial photograph followed land that appears to be undergoing residential development. A railroad track is present to the east of the Site followed by undeveloped land. Undeveloped land is present to the southeast of the Site and railroad tracks followed by residential properties to the southwest. The west adjacent property is improved with what appears to be a boiler house with associated water tanks and two smaller buildings on the southern portion. The northern portion of the west adjacent property appears to be used as an unpaved parking lot.

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

The 1949 photograph depicts the Site as improved with the main factory building. A small building is located immediately north of the factory and another small building is located to the northeast of the factory building on the Site. The northeast portion of the Site is used as a parking lot. A rectangular building is situated east of the factory building followed by a smaller auxiliary building. A railroad track is depicted to the southeast of the factory building on the Site. Material storage and parking lot area is observed on the southern portion of the Site. Railroad tracks and multiple small auxiliary buildings are apparent on the southwest and western portion of the Site.

South Boulevard is present to the north of the Site on the 1949 aerial photograph followed by commercially improved properties. A railroad track is located east of the Site followed by unimproved land. An unpaved parking lot area and a large area of graded land are located to the southeast of the Site. A series of railroad tracks followed by residential properties are present to the southwest of the Site. The west adjacent property appears to be two larger industrial buildings and five smaller auxiliary buildings. Piping from the southernmost building on the west adjacent property extends from the building to the Site's factory building.

The 1957 and 1964 aerial photographs depict the Site and the surrounding properties similar to the 1949 photograph.

The 1972 aerial photograph shows the Site similar to the 1949, 1957, and 1964 photographs, except for all the parking lot and material storage areas to the north east, south and west appears to be paved. The surrounding areas to the north, south and west are depicted similar to their appearances in the 1949, 1957, and 1964 aerials photographs. The east adjacent property has been improved with a large industrial building surrounded by paved parking lots. The southeast adjacent property appears to have been paved and material and vehicles are staged in this area. A small building with six large tanks and several smaller tanks is also located on the southeast adjacent property.

The 1980 aerial photograph depicts the Site similar to the 1972 aerial photograph. South Boulevard is present to the north followed by multiple parking slots. East of the Site are several paved parking lots and a large industrial building. A large paved parking lot and a small building with multiple holding tanks are present to the southeast of the Site. Multiple railroad tracks are located southwest of the Site followed by residential properties. The west adjacent property is improved with eight industrial buildings surrounded by paved parking areas and material storage.

The 1993 aerial photograph depicts the Site similar to the 1980 aerial photograph, except for an addition has been improved along the west side of the factory building. The previously identified railroad tracks on the west portion of the Site are longer visible. The surrounding area is depicted similar to the 1980 photograph except for an industrial structure southeast of the Site.

The 2000 and 2005 aerial photographs depict the Site as one large building with paved parking areas in all directions of the Site and a holding tank to the southwest of the building. South Boulevard is present to the north of the Site followed by a parking lot and a property that appears to be undergoing development activities. Centerpoint Parkway is present along the east Site boundary followed by three industrial structures, Campus Drive, and parking lot areas. Two industrial structures, several smaller auxiliary building and multiple holding tanks are located southeast of the Site beyond Ring Road. Railroad tracks are located southwest of the site beyond Ring Road followed by residential properties. Ring Road circles around and is also located along the west side of the Site, followed by properties improved with six industrial buildings surrounded with paved parking lot area.

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, 2000 Centerpoint Parkway, for the years 1999, 2004, and 2009. The Site address is listings included:

- 1999: GM Truck Group Plant, GM Truck Group Medical, and GM Truck Group Headquarters.
- 2004: GM Truck Group Dacor Accounts Pay and GM Truck Group Headquarters Truck Product.
- 2009: General Motors Corp., General Motors North America Manufacturing, Environmental Corporate Remediation, Eds, and Aramark Facility Services.

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

- 1999: Office Building (2001 Centerpoint Parkway)
- 2004: Office Building (2001 Centerpoint Parkway)
- 2009: Amark, General Motors Corp., General Motors Truck Group (1999 Centerpoint Parkway) and Office Building (2007 Centerpoint Parkway).

The city directories reviewed did not identify any address for the Site along Centerpoint Parkway prior to 1999. 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 and to the east of the Site. Grand Trunk Railroad is present to the south and southwest. The west adjacent property appears to be unimproved land.

The 1943 topographic map is a 7.5-minute series map and shows the Site as developed with one large structure situated on the central portion of the Site and a small rectangular structure on the northern portion of the Site. Railroad tracks are located on the west portion of the Site. South Boulevard is located north of the Site followed by unimproved land. The Grand Trunk Western railroad is present east of the Site followed by unimproved land. Unimproved land is present to the southeast and the Grand Trunk Western railroad is also present to the southwest of the Site, followed by residential properties. The west adjacent property is improved with a small structure on the southern portion of the property. The remainder of the west adjacent property is depicted as unimproved land.

The 1952 topographic map depicts the Site similar to the 1943 topographic map, except for a large addition has been improved on the east side of the main factory building, roadways are depicted interconnecting all the on-site buildings, and railroad tracks are located on the east and west sides of the factory building. The 1952 topographic map depicts the surrounding properties similarly as developed to the 1943 topographic map, except for with one large structure situated on the central portion of the Site and a small rectangular structure on the northern portion of the Site with roadways connecting the buildings. Railroad tracks are present on the east and west sides of the factory building on the Site. South Boulevard is depicted north of the Site followed by unimproved land. Grand Trunk railroad is located east of the Site followed by unimproved land. The map coverage to the south, west and northwest of the Site is shaded red which identifies densely developed areas and not all improvements are depicted, only those of significance size or religious/government buildings. Grand Trunk railroad is depicted southwest of the Site. Four larger structures are depicted on the west adjacent property.

The 1968 map depicts the Site as improved with a large irregular-shaped industrial building. Two small auxiliary buildings are located along the east side of the Site followed by railroad tracks along the property boundary. A small auxiliary building and railroad tracks are located on the western portion of the Site. South Boulevard is present to the north of the Site followed by apparent residential structures. Railroad tracks are located east of the Site followed by undeveloped land. A rectangular apparent industrial structure is located on the southeast of the Site followed by the Grand Trunk railroad. The Grand Trunk Railroad bounds the southwest portion of the Site followed by densely developed residential area. The west adjacent property is improved with three large apparent industrial structures and six smaller auxiliary buildings.

The 1968 topographic map, photorevised 1973, depicts the Site similar to the 1968 map, except for an additional auxiliary building is located along the east side of the Site and an auxiliary building on the west side of the Site has been expanded. South Boulevard is present to the north followed by a densely developed residential area. The east adjacent property has been improved with a large industrial structure with roadways and additional railroad tracks. The southeast adjacent property is improved with a small rectangular structures and a small square building with six large holding tanks. Grand Trunk Railroad is present to the southwest followed by a densely developed residential area. The west adjacent property is improved with the same structures in the 1968 topographic maps, except for one building's footprint has been expanded.

The 1983 topographic map depicts the Site similar to the 1968 topographic map, photorevised 1973, except for a rectangular building as been constructed on the western portion of the Site. The surrounding area on the 1983 topographic map appears similar to the 1968 topographic map, photorevised 1973.

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

The EDR Topographic Map report is included in Appendix B.

4.1.6 Building/Planning Departments

The City of Pontiac requires a Freedom of Information Act (FOIA) request to access the municipal building files for the Site. ARCADIS submitted a FOIA request to the City of Pontiac Building Department and has not received a response as of to date. If a response is received after this Phase I ESA report is issued, an addendum letter will be issued if the information obtained alters the findings of this report, otherwise the information will be maintained in ARCADIS project files.

Limited building information is maintained on the Oakland County Property Assessor website. ARCADIS accessed the Commercial and Industrial Property Profile on the Oakland County website to review available records on file for the Site. The records included a site map, building information, property photographs, and the commercial and industrial property profile.

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. The Site was improved by GM in 1927 with a large assembly plant occupied by Pontiac Central Manufacturing and Assembly and Greyhound Bus and Truck. At this time, the Site was contiguous with the west adjacent property, which was located at 660 South Boulevard. The former Pontiac Central facility was utilized for the production of medium and heavy duty trucks and buses. Major manufacturing activities associated with the production of these vehicles included machining, stamping, plating, smelting, fiberglass laminating, heat treating, and painting. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was decommissioned. The concrete footings, bare steel beams and frames of the Pontiac Central Manufacturing plant remained on-site upon the completion of the decommissioning activities and was used as the frame during the redevelopment of Centerpoint Campus – Central building, which was completed in 1996. Vehicle design "mock-up" operations were conducted between 1996 and 2005, which consisted of small-scale development and custom design of test parts. Administrative and supporting operations were also conducted at the Site between 1996 and 2008. The facility was closed in October 2008 and has remained vacant since 2008 to present.

4.2 Historical Use Information on Adjoining Properties

The properties surrounding the Site to the east, south and west was historically apart of GM Centerpoint campus that included more than 60 manufacturing buildings on more than 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 and west adjacent properties and a waste water treatment plant to the southeast. The industrial operations at the east adjacent Pontiac Assembly and the west adjacent Pontiac Center point Campus - West ceased in 2009. The southeast adjacent waste water treatment plant remains operational to service decommissioning activities of Pontiac Assembly Plant.

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's 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 (Pontiac South, MI USGS Quadrangle Map), the Site elevation is approximately 930 feet. Topographically, the Site is flat due to extensive grading activities conducted during the development of the manufacturing complex. The general area has a gradual surface gradient from 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.

A mix of sand, gravel, clay, asphalt, concrete and other engineering fill were found in past Site investigations. Fill was found at depths of 5 to 15 feet below ground surface. A glacial clay and till deposit is found below the surficial fill at the Site. A sand and gravel aquifer was encountered at approximately 120 feet below ground surface. Refer to Section 4.1.1 for additional details regarding the previous environmental investigations that have been performed at the Site.

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 are largely controlled by drainage structures along roadways and in paved areas. The regional flow is to the north, towards the Clinton River, which is located less than 1 mile north of the Site.

4.3.2.2 Groundwater

Based on the Geotcheck® Addendum to the EDR Radius Map Report groundwater flow is reported to the north towards the Clinton River and groundwater is 17 to 125 below ground level (bgl). According to a previous report by CRA, the Site is located within the Rouge River and Clinton River drainage basins. The Clinton River is located northeast of the Site and the Rouge River is located southeast of the Site.

According to subsurface investigations performed by CRA between 1991 and 2009, groundwater has been found at depths of 10 to 20 feet below ground surface. According to previous reports groundwater is found in the unconfined water table zone, glacial till aquifers, lower sand and gravel aquifers, and bedrock aquifers. Refer to Section 4.1.1 for additional details regarding the previous environmental investigations that have been performed at the Site.

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 (mile)	Site	0 – 1/8 mile	1/8 – 1/4 mile	1/4 – 1/2 mile	1/2 – 1 mile	< 1 MILE
NPL (National Priority List)	1.125	No	0	0	0	0	0
Proposed NPL	1.125	No	0	0	0	0	0
NPL LIENS (Federal Superfund Liens)	0.125	No	0	NR	NR	NR	NR
Delisted NPL	1.125	No	0	0	0	0	0
CERCLIS (Comprehensive Environmental Response, Compensation, and Liability Information System)	0.625	No	0	0	0	0	NR
FEDERAL FACILITY	1.125	No	0	0	0	0	0
CERCLIS-NFRAP (No Further Remedial Action Planned)	0.625	No	0	1	0	0	NR
RCRA CORRACTS (Corrective Action Report)	1.125	No	0	1	0	0	0

Database	Search Radius (mile)	Site	0 – 1/8 mile	1/8 – ¼ mile	¼ - ½ mile	½ - 1 mile	< 1 MILE
RCRA TSDF (Transporters, Storage, and Disposal Facilities)	0.625	No	0	1	0	0	NR
RCRA Generators	0.375	No	0	1	1	NR	NR
US ENG CONTROLS (Engineering Controls Site List)	0.625	No	0	0	0	0	NR
US INST CONTROL (Sites with Institutional Controls)	0.625	No	0	1	0	0	NR
SHWS (Contaminated Sites)	1.125	No	0	0	0	0	0
State & Tribal SWF/LF (Solid Waste Facilities Database)	0.625	No	0	0	0	0	NR
State & Tribal LUST (Leaking Underground Storage Tank Sites)	0.625	No	0	0	1	1	NR
State & Tribal USTs (Underground Storage Tanks)	0.375	No	0	1	1	NR	NR
State ASTs (Aboveground Storage Tanks)	0.375	No	0	0	0	NR	NR
HIST LF (Inactive Solid Waste Facilities)	0.625	No	0	0	0	1	NR
LIENS (Lien List)	0.125	No	1	NR	NR	NR	NR
AIRS (Permit and Emissions Inventory Data)	0.125 mile	No	1	NR	NR	NR	NR
BEA (Baseline Environmental Assessment Database)	0.5 mile	No	0	3	0	NR	NR

4.4.1 Site

The Site was identified on the following federal and/or state regulatory databases searched by EDR: LIENS and AIRS.

GM Pontiac Corporation (the Site) is listed at 2000 Centerpoint Parkway in Pontiac, Michigan. The AIRS database listing provides the state registration number as N1294 and the permit number is 61-06A. The application reason is stated as disconnect the oxidizer from the MPVE system. The LIENS database lists tax code 19-03-101-003. The LIENS database listing states that the facility is in Section 3 and 4, Township 2N, and Range 10E. It should be noted that the Site was historically contiguous with the west adjacent property and shared the address 660 South Boulevard.

There following federal and state database listings for the 660 South Boulevard are ones identified that ARCADIS was unable to distinguish which listings would be exclusively associated with what is now Pontiac Centerpoint Campus – West property or the Site:

GMC Truck & Coach Division Pontiac East is listed at 660 South Boulevard East, between 0.125 and 0.25 mile north-northwest of the Site. The facility is listed on the RCRA-TSDF, CERC-NFRAP, CORRACTS, RCRA-LQG, US INST CONTROL, TRIS, and FINDS databases. The facility is listed as a RCRA-TSDF facility. The facility has a record of 25 violations. The violations consisted of air emission standards, generator requirements, LDR requirements, and TSD requirements. The CERC-NFRAP database indicates that no further remedial action is planned after discovery and preliminary assessment was completed. All violations were corrected except for the two air emission standards violations. The CORRACTS (corrective action report) listing states that the EPA identification number for the facility is MID005356902. The facility is initially listed on the CORRACTS database dated December 1, 1991, as being a facility or area that was assigned a low corrective action priority. The most current CORRACTS database listing action s decision on petition for no further action dated December 19, 2006. The facility is a large quantity generator of hazardous waste with EPA identification number MID005356902. The facility is listed on the US INST CONTROL database with an event code CA772PR and dated April 11, 2007.

GMC Truck & Coach Division Pontiac East is listed at 660 South Boulevard East, between 0.125 and 0.25 mile north-northwest of the Site. The facility is listed on the MANIFEST database. The MANIFEST database identifies Non-listed Ignitable Waste (D001), Unknown Waste (F001), PCB Oil (B001), and Mercury Waste (D009) were generated at the facility and transported to off-site TSD facilities. The facility is listed on the SHWS database. The facility ID is listed as 63000048 and the facility status is listed as inactive-no actions taken to address contamination. The facility is listed on the MLTS database. The facility License Number is listed as 21-11448-04.

4.4.2 Federal Environmental Record Sources

EDR identified seven facilities within the applicable radius for the Federal databases searched. The databases identified include: CERCLIS-NFRAP, CORRACTS, RCRA-LQG, RCRA-CESQG, RCRA-TSDF, US INST CONTROLS, RCRA-NonGen, AIRS, and BEA. Information in this section was obtained from EDR.

Motown Motion Pictures LLC is listed at 1999 Centerpoint Parkway, between 0.125 and 0.25 mile east of the Site. The facility is listed on the BEA database, with a BEA number of 4183 in the category of different hazardous substance(s).

South Boulevard Commercial Building is listed at 655 South Boulevard East, between 0.125 and 0.25 mile north-northwest of the Site. The facility is listed on the BEA database with BEA number 3684 and in the category of same hazardous substance(s).

Office Building is listed at 585 South Boulevard East, between 0.125 mile and 0.25 mile northwest of the Site. The facility is listed on the BEA database with BEA number 3763 and in the category of same hazardous substance(s).

Swinters SVC CTR is listed at 807 South Boulevard, between 0.125 mile and 0.25 mile northeast of the Site. The facility is listed on the RCRA-NonGen and FINDS databases. The facility is listed as not a generator of RCRA hazardous waste with EPA identification number MID985645639.

Irvin Automotive Products is listed at 2600 Centerpoint Parkway, between 0.25 mile and 0.5 mile southeast of the Site. The facility is listed on the RCRA-CESGQ database. The facility is listed as a conditionally exempt small quantity generator of RCRA hazardous waste with EPA identification number MIK278245733.

Based on the inferred groundwater gradient and flow direction at the Site, it appears none of the identified properties on the federal and/or state regulatory databases within a 1/8 of mile of the Site present an environmental concern except for the north/northwest GMC Truck & Coach Division Pontiac East facility which is located upgradient of the Site. Therefore, based on ARCADIS's review of the EDR Radius Map report it appears known or suspect environmental concerns are present associated with the south adjacent property. The environmental concerns identified during the course of this investigation are discussed in detail in Section 7.0. 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 eight facilities within the applicable radius for the State and Tribal databases searched. The databases identified include: LIENS, MANIFEST, UST, LUST, and HIST LF. Information in this section was obtained from EDR.

City of Pontiac is listed at 650 Plainfield, between 0.125 mile and 0.25 mile northwest of the Site. The facility is listed on the UST database. The facility ID number is 3594 and facility type is listed as closed. The facility is listed as having three 1,000-gallon water USTs and two 10,000-gallon water USTs that were installed on May 7, 1961 and were removed from the ground on June 1, 1988.

GM - Pontiac Centerpoint Campus - West Engineering is listed at 660 South Boulevard East, between 0.25 mile and 0.5 mile west of the Site. The facility is listed on the LUST database. The facility ID number is 18277. The facility is listed as having four releases with a status of closed. The facility had a release on October 16 and October 22, 1991 of unknown substances and the releases were closed on March 17, 1995 and April 27, 1994 respectively. The facility also had a release on September 4 of gasoline and November 5, 1992 of a substance that is listed as other and the releases were closed on December 28, 1993 and April 29, 1996 respectively. The facility is listed as having seven releases with a status of open. The facility had a release of unknown substance on January 1, 1985. The facility also had a release on February 2, May 1, and August 22, 1990 of a substance that was not reported. The facility had a release on June 21 and September 5, 1991 of an unknown substance. The most recent release occurred on July 20, 2005 and the substance was reported as gasoline.

GM - Pontiac Centerpoint Campus - West Engineering is listed at 660 South Boulevard East, between 0.25 mile and 0.5 mile west of the Site. The facility is listed on the UST database. The facility Id number is 18277 and the facility type is listed as active. The facility is listed as having two 12,000-gallon gasoline USTs, two 12,000-gallon axle lube USTs, two 12,000-gallon diesel USTs, and one 12,000-gallon hazardous substance UST that were installed on May 8, 1927 and were removed from the ground between August 22 and August 27, 1991. The facility is listed as having two 12,000-gallon engine oil USTs, one 12,000-gallon transmission oil UST, one 12,000-gallon power steering oil UST, one 12,000-gallon gasoline UST, one 12,000-gallon diesel UST, one 12,000-gallon transmission fluid UST, and one 12,000-gallon hazardous substance UST that were installed on May 5, 1946 and were removed from the ground between September 3 and September 4, 1991. The facility is listed as having three 2,000-gallon hazardous substance USTs and one 2,000-gallon gasoline UST that were installed on January 1, 1946 and were removed from the ground on June 1, 1994. The facility is listed as having one 10,000-gallon diesel UST that was installed on May 8, 1951 and removed from the ground on August 22, 1991. The facility is also listed as having one 12,000-gallon diesel UST and one 12,000-gallon gasoline UST that were install on January 1, 1984 and were removed from the ground on July 7, 2005. The facility is listed as having two 2,000-gallon USTs of unknown contents that were installed on January 1, 1994 and were closed in the ground on January 1, 1985. The facility is listed as having on 12,000-gallon diesel UST that was installed on February 1, 1993 and is currently in use.

Irvin Automotive Products is listed at 2600 Centerpoint Parkway, between 0.25 mile and 0.5 mile southeast of the Site. The facility is listed on the MANIFEST database. The MANIFEST database identifies non-reported waste is generated at the facility and transported to off-site TSD facilities.

Ankerson Resources System Inc is listed at 400 South Boulevard East, between 0.5 mile and 1 mile west-northwest of the Site. The facility is listed on the HIST LF database. The facility ID is listed as 63000002 and the facility status is listed as inactive.

Gaukler Storage Co is listed at 400 South Boulevard East, between 0.5 mile and 1 mile west-northwest of the Site. The facility is listed on the LUST and UST databases. The facility ID number is 14737. The facility is listed as having one release of an unknown substance (Leak Number C-0545-99) on June 9, 1999 and the release was closed on September 27, 1999. The facility Id number is 14737 and the facility type is listed as closed. The facility is listed as having two 5,000-gallon gasoline USTs that were installed on March 6, 1980 and were removed from the ground on June 9, 1999. The facility is also listed as having one 10,000-gallon diesel UST that was installed on March 6, 1980 and was removed from the ground on April 9, 1999.

Based on the inferred groundwater gradient and flow direction at the Site, it appears none of the identified properties on the federal and/or state regulatory databases is in a 1/8 of mile represent an environmental concern except for the west adjacent GM Pontiac Centerpoint Campus – West Engineering facility which is located hydraulically upgradient of the Site. Therefore, based on ARCADIS's review of the EDR Radius Map report it appears known or suspect environmental concerns are present associated with the south adjacent property. The environmental concerns identified during the course of this investigation are discussed in detail in Section 7.0.

A compilation of 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. Four of the 15 facilities listed in the Orphan summary appear to be located within the Approximate Minimum Search Distance for the above-referenced Federal and State regulatory databases.

US Army Pontiac Storage Facility is listed at 871 South Boulevard, between 0.125 mile and 0.5 mile west of the Site. The facility is listed on the CERC-NFRAP database.

Unit 52 Centerpoint Business Campus is listed at Unit 52 Centerpoint Business Campus, between 0.125 mile and 0.5 mile west of the Site. The facility is listed on the BEA database. BEA number is listed as 3491 and the category is listed as no hazardous substance(s).

4.5 Additional Environmental Records Sources

4.5.1 Fire Department

ARCADIS submitted a FOIA request to the City of Pontiac Fire Department on January 14, 2010. The Fire Department sent Fire System Inspection Reports on January 29, 2010.

4.5.2 Health Department

ARCADIS submitted a FOIA request to the Oakland County Health Department on January 20, 2010 requesting to review all drill well, septic tank, drinking water, and other environmental records. The Health Department responded on January 22, 2010 stating that they only had food service files.

4.5.3 Michigan Department of Environmental Quality

ARCADIS submitted a FOIA request on January 14, 2010 to the MDEQ (now known as MDNRE) to obtain all available records regarding LUST, UST, and Part 201 documents for the Site. The Lansing office stated that they did not have any documents for the Site in the Storage Tank Unit. The southeast district office has not responded to the request. A follow-up message was left with the southeast district office on February 4, 2010.

Additionally, ARCADIS searched the MDEQ (now known as MDNRE) - Underground and Leaking Underground Storage Tank databases on the Internet. The Site was listed on the Underground Storage Tank database as having 9 USTs. One Leak ID was listed on the Leaking underground Storage Tank database. These tanks were listed under the address 660 South Boulevard East (the current address for Pontiac Centerpoint Campus – West). The tanks were identified in previous reports as being located on the Site. The Site previously shared an address with Pontiac Centerpoint Campus – West. The remaining tanks listed on the database are located on Pontiac Centerpoint Campus - West.

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

Tank ID	Capacity (gallons)	Tank Status	Description	Contents	Installation Date
29-1	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Engine Oil	5/7/1946
29-2	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Engine Oil	5/7/1946
29-3	12,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Engine Oil	5/7/1946
29-4	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Transmission Oil	5/7/1946
29-5	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Power Steering Oil	5/7/1946
29-6	12,000	Removed from Ground	Asphalt Coated or Bare Steel, Lined Interior	Diesel	5/7/1946
29-7	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Transmission Fluid	5/7/1946
29-8	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Hazardous Substance	5/7/1946
29-9	12,000	Removed from Ground	Asphalt Coated or Bare Steel	Gasoline	5/7/1946

The following table lists the status of leak identification numbers listed on the Leaking Underground Storage Tank database. The leak identification numbers were found under the address 660 South Boulevard East. The leak identification numbers were identified from past reports for the Site. The remaining leak identification numbers on the database correspond to Pontiac Centerpoint Campus – West.

Leak ID	Discovery Date	Substance Released	Release Status	Closed Date	Closure Type
C-2149-91	10/16/1991	Unknown	Closed	3/17/1995	Type B Evaluation
C-0776-90	5/1/1990	Not listed	Open		

Based on conversations between ARCADIS and CRA AOI #50 (Leak ID C-0776-90) has not been closed on the MDEQ Leaking UST list. Additional actions requested by the MDEQ were performed in August 2009 by CRA which consisted of groundwater sampling and analysis. However, at the date of publication of this summary, the data was not available from CRA. The CRA Project Manager indicated that they anticipate that the results of the testing and the submittal of a final report will most likely be sufficient to close this AOI.

5.0 SITE RECONNAISSANCE

5.1 Methodology and Limiting Conditions

Ms. Moriah Bloom and Ms. Andrea Rayner of ARCADIS (ARCADIS) visited the Site on January 13, 2010. Mr. Bill Dotson, Facility Security with Motors Liquidation Company accompanied Ms. Bloom and Ms. Rayner during the Site visit. The weather at the time of ARCADIS's 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 limitations 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 1.2 million-square foot building, asphalt-paved parking areas, and vegetated landscaped areas. The Site is currently unoccupied administrative offices and supporting areas.

5.3 Site Observations

5.3.1 Underground Storage Tanks (USTs)

ARCADIS did not observe fill pipes, vent pipes or other evidence of USTs on the Site. There are no USTs currently at the Site.

Historically, nine USTs were located on the east side of the Site associated with the former building 29 (Engine Shop). These USTs have been removed from the ground according to the MDEQ (now known as MDNRE) Underground Storage Tank database. Refer to Section 4.1.1 for a discussion of the remedial activities associated with the former tank farm area and Section 4.5.3 for a complete table of the USTs formerly located at the Site.

5.3.2 Aboveground Storage Tanks (ASTs)

ARCADIS observed one AST at the Site. The AST included the following:

Capacity (gallons)	Contents / Use	Location	Secondary Containment
116	Diesel	Boiler Room	Concrete dyke

The above listed AST is associated with the on-site fire suppression system located in the boiler room. This AST was observed on stilts within secondary containment. No evidence of staining and/or leakage was noted on the AST or on the surrounding concrete floor surface. No other ASTs were noted during the Site reconnaissance activities.

5.3.3 Hazardous Substance and Petroleum Use

ARCADIS did not observe hazardous substances at the Site. Petroleum products were observed at the Site. One 116-gallon AST containing diesel fuel was observed. Two hydraulic lifts were observed on the North Dock. The hydraulic lifts appeared to be in good condition. There were also two inactive elevators at the Site, one passenger and one freight elevator. These were taken out of service in October 2009. The equipment associated with the elevators was observed to be in good condition with no evidence of staining or leakage observed on the equipment or on the surrounding concrete floor surface.

5.3.4 Unlabeled Drums/Containers

ARCADIS did not observe unlabeled drums or containers at the Site. ARCADIS did observe labeled 55-gallon drums of Dowtherm SR-1, Dowfrost1, and Liquichlor 12.5% solution. ARCADIS also observed 30-gallon drums of Spectrus NX106, Continuum AEC223, and Corrshield. These drums were observed in the Boiler Room stored on plastic spill pans. Carbon dioxide cylinders (72 cylinders) were observed near the South Dock. The chemical material storage areas were noted to be in good condition with no evidence of staining and/or leakage on the containers or on the surrounding floor surface.

5.3.5 Stained Soil or Pavement

ARCADIS did not observe any staining at the exterior of the Site; however, observations of the ground and paved surfaces were limited due to snow cover.

5.3.6 Stains or Corrosion

There was significant rust staining in the north loading dock area at the Site. This area was located indoors. This area of staining appeared to be associated with long term storage of equipment. The concrete floor was observed 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. Observations of vegetated covered areas were limited due to snow accumulation.

5.3.8 Polychlorinated Biphenyls (PCBs)

ARCADIS did not observe any possible PCB containing equipment at the Site.

5.3.9 Solid Waste/Dumping

Although the Site is closed, minimal solid waste is generated on-site associated with property up-keep. The solid waste generated is transported in a hopper to Pontiac Centerpoint West facility for proper disposal.

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 Sewer System.

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, monitoring wells or abandoned wells at the Site.

5.3.14 Septic Systems

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

5.3.15 Odors

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

5.3.16 Other Observations

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. Bob Hare, Site Manager for MLC.

6.2 Site Occupants

The Site was unoccupied.

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

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.

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 2000 Centerpoint Parkway, 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:

- Based on the historical sources reviewed, the Site was improved, by GM, in 1927 with a large assembly plant occupied by Pontiac Central Manufacturing and Assembly and Greyhound Bus and Truck. At this time, the Site was contiguous with the west adjacent property, which was located at 660 South Boulevard. The former Pontiac Central facility was utilized for the production of medium and heavy duty trucks and buses. Major manufacturing activities associated with the production of these vehicles included machining, stamping, plating, smelting, fiberglass laminating, heat treating, painting. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was decommissioned. The concrete footings, bare steel beams and frames of the Pontiac Central Manufacturing plant remained on-site upon the completion of the decommissioning activities and was used as the frame during the redevelopment of Centerpoint Campus – Central building, which was completed in 1996. Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Central Manufacturing and Assembly Plant had the potential to impact areas of the Site which have not been investigated due to the presence of building foundations and/or utility corridors.
- According to the regulatory data base listing an environmental lien is identified for the Site. The LIENS database lists tax code 19-03-101-003. The LIENS database listing states that the facility is in section 3 and 4, township 2N, and range 10E. The description is Assessor Plat 98, 110.
- ARCADIS's review of historical aerial photographs and topographic maps, a series of railroad tracks were formerly located on the east and west portions 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 a creosote, which over time has the potential for impacting the surrounding surfaces.

- The properties surrounding the Site to the east, south and west was historically apart of 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 and west adjacent properties and a waste water treatment plant to the southeast. The industrial operations at the east adjacent Pontiac Assembly and the west adjacent Pontiac Center point Campus - West ceased in 2009. The southeast adjacent waste water treatment plant remains operational to service decommissioning activities of Pontiac Assembly Plant. According to the EDR reports several on-going environment investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (Now known as MDNRE) and the EPA oversight including a LUST investigation and CORRACTS. Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus there is a potential that impact areas of these properties which have not been investigated due to the presence of building foundations and/or utility corridors.

7.2 Historical Recognized Environmental Conditions

This assessment revealed the following historical RECs (HRECs) associated with the site.

- During previous investigations at the Site and on the surrounding GM Centerpoint Campus (1991-1995), GM and the U.S. EPA identified 84 Solid Waste Management Units (SWMUs)/Areas of Interest (AOIs) on the entire Campus, 50 were specifically on the Site. Most of the AOIs/SWMUs were evaluated and investigated during the Site redevelopment between 1991 and 1995. As of 1998, 19 of these AOIs and SWMUs still required some level of corrective measures, 2 of which are located on the Site. Subsequently, GM and the EPA Region 5 Office entered in to a Consent Order, agreeing to terms of the corrective measures of the 19 SWMUs/AOIs (listed in the table above). The recent Consent Order was effective May 24, 2007. Because the Site continues to be subject to RCRA CA and a Restrictive Covenant, the historical operations and releases would be considered a PAOC. The two remaining AOI's include:

- o AOI #50 DUCO Stores underground storage tank (UST) area and fuel line area: The DUCO Stores UST Area is located on the west adjacent property (Pontiac Centerpoint Campus West) however the area of investigation extended to the Site due to the migration of contamination in utility corridors and piping. The DUCO Stores Fuel Line Study area is located on the west adjacent Pontiac Centerpoint Campus West property, and area of impact did not extend to the Site. Previous environmental investigations and EDR report listings indicate that several releases have been reported to the MDEQ associated with the discovery of additional impact associated with the DUCO Storage LUST incident. The most recent reported release associated with the DUCO Store was reported in 2005 and has not been closed per Michigan's Public Act, NREPA 451 Part 213 1994, as amended (PA 451 Part 213). The implemented corrective measures for this area included closure under PA 451 Part 213 and institutional controls. The impacted area of AOI #50 that extends to the Site is a part of the institutional control (i.e. Deed Restriction) and could not be fully remediated due to the presence of building foundation and utility corridors.
- o AOI# 16 – Former Building 29 Tank Farm: The former Building 29 Tank Farm consisted of nine 12,000-gallon steel underground storage tanks (USTs) installed in 1946. The USTs were located near the south exterior wall of Building 29 and contained engine oil, transmission fluids, axle fluids, and power steering fluids. The UST farm was taken out of service during summer of 1991 and the USTs were excavated and removed in October 1991 in support of the Centerpoint Business Campus redevelopment. The corrective measures implemented for this area include institutional controls to restrict land use to industrial/commercial uses and resource use restriction to prevent shallow ground water in an unconfined aquifer from being used as drinking water.

7.3 De Minimis Conditions

De minimis environmental conditions at the Site include the following:

- De minimis surface staining was observed in the north loading dock area.

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 2000 Centerpoint Parkway, 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:

- Based on the historical sources reviewed, the Site was improved, by GM, in 1927 with a large assembly plant occupied by Pontiac Central Manufacturing and Assembly and Greyhound Bus and Truck. At this time, the Site was contiguous with the west adjacent property, which was located at 660 South Boulevard. The former Pontiac Central facility was utilized for the production of medium and heavy duty trucks and buses. Major manufacturing activities associated with the production of these vehicles included machining, stamping, plating, smelting, fiberglass laminating, heat treating, and painting. Operations at the former Pontiac Central Manufacturing and Assembly Plant were discontinued in August 1990. Between 1991 and 1995, the plant was decommissioned. The concrete footings, bare steel beams and frames of the Pontiac Central Manufacturing plant remained on-site upon the completion of the decommissioning activities and was used as the frame during the redevelopment of Centerpoint Campus – Central building, which was completed in 1996. Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the former Pontiac Central Manufacturing and Assembly Plant had the potential to impact areas of the Site which have not been investigated due to the presence of building foundations and/or utility corridors.
- According to the regulatory data base listing an environmental lien is identified for the Site. The LIENS database lists tax code 19-03-101-003. The LIENS database listing states that the facility is in Section 3 and 4, Township 2N, and Range 10E. The description is Assessor Plat 98, 110.
- ARCADIS's review of historical aerial photographs and topographic maps, a series of railroad tracks were formerly located on the east and west portions 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 properties surrounding the Site to the east, south and west was historically apart of General Motors (GM) Centerpoint campus that included more than 60 manufacturing buildings on more than 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 and west adjacent properties and a waste water treatment plant to the southeast. The industrial operations at the east adjacent Pontiac Assembly and the west adjacent Pontiac Center point Campus - West ceased in 2009. The southeast adjacent waste water treatment plant remains operational to service decommissioning activities of Pontiac Assembly Plant. According to the EDR reports several on-going environment investigations are occurring on the surrounding Centerpoint Campus properties that involved both the MDEQ (Now known as MDNRE) and the EPA oversight including a LUST investigation and CORRACTS. Based on the nature of industrial operations (e.g. use of large volumes hazardous substances, petroleum products and generation and storage of large volumes of waste chemicals) associated with the surrounding Centerpoint Campus there is a potential that impact areas of these properties which have not been investigated due to the presence of building foundations and/or utility corridors.

9.0 DEVIATIONS/DATA GAPS

ARCADIS did not identify any deviations or data gaps.

10.0 ADDITIONAL SERVICES

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

11.0 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.



Douglas M. Lindsay, PG, LSP
Senior Geologist



for:

Moriah Bloom
Environmental Specialist II

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 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 2672058.5, January 6, 2010, PCC Central, 200 South Boulevard East, Pontiac, MI 48341.
- *The EDR Radius Map with GeoCheck*, Inquiry Number 2672058.2s, January 6, 2010, PCC Central, 200 South Boulevard East, Pontiac, MI 48341.
- *The EDR Sanborn Map Report*, Inquiry Number 2672058.3, January 6, 2010, PCC Central, 200 South Boulevard East, Pontiac, MI 48341.
- *The EDR Topographic Map Report*, Inquiry Number 2672058.4, January 6, 2010, PCC Central, 200 South Boulevard East, Pontiac, MI 48341.
- *The EDR City Directory Abstract*, Inquiry Number 2678248.1, January 19, 2010, PCC Central, 2000 Center Point Parkway, Pontiac, MI 48341.

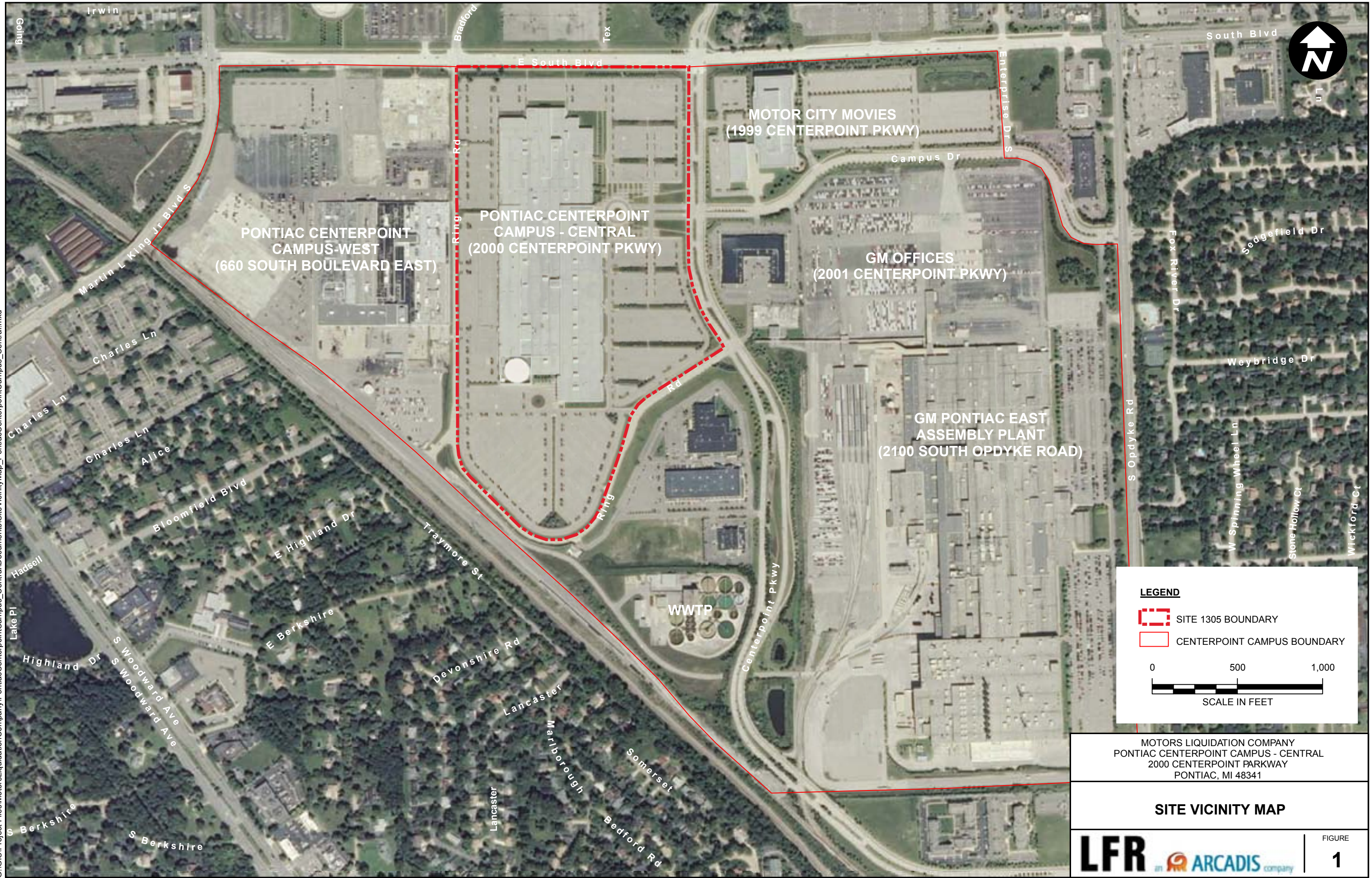
Previous Environmental Reports Reviewed:

- RCRA Facility Investigation (RFI) Report, Centerpoint Business Campus, completed by Conestoga-Rovers & Associates (CRA) dated October 21, 2005.
- Corrective Measures Proposal, Centerpoint GM Campus, completed by CRA dated April 21, 2006.
- Letter of Correspondence RE: Response to Comments and Final Decisions, issued by the Environmental Protection Agency to General Motors Corporation, dated August 3, 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, Pontiac Centerpoint Campus, completed by CRA, dated November 23, 2007.
- Phase I Environmental Site Assessment (ESA) completed by Conestoga-Rovers & Associates (CRA) dated December 2008.
- Memorandum RE: Post – MPE Evaluation of Potential Exposures, General Motors Pontiac Centerpoint Campus, Former Building 33, LNAPL Area, completed by CRA, dated April 3, 2009.
- Remediation Cost Estimate Summary, ARCADIS, dated October 27, 2009.

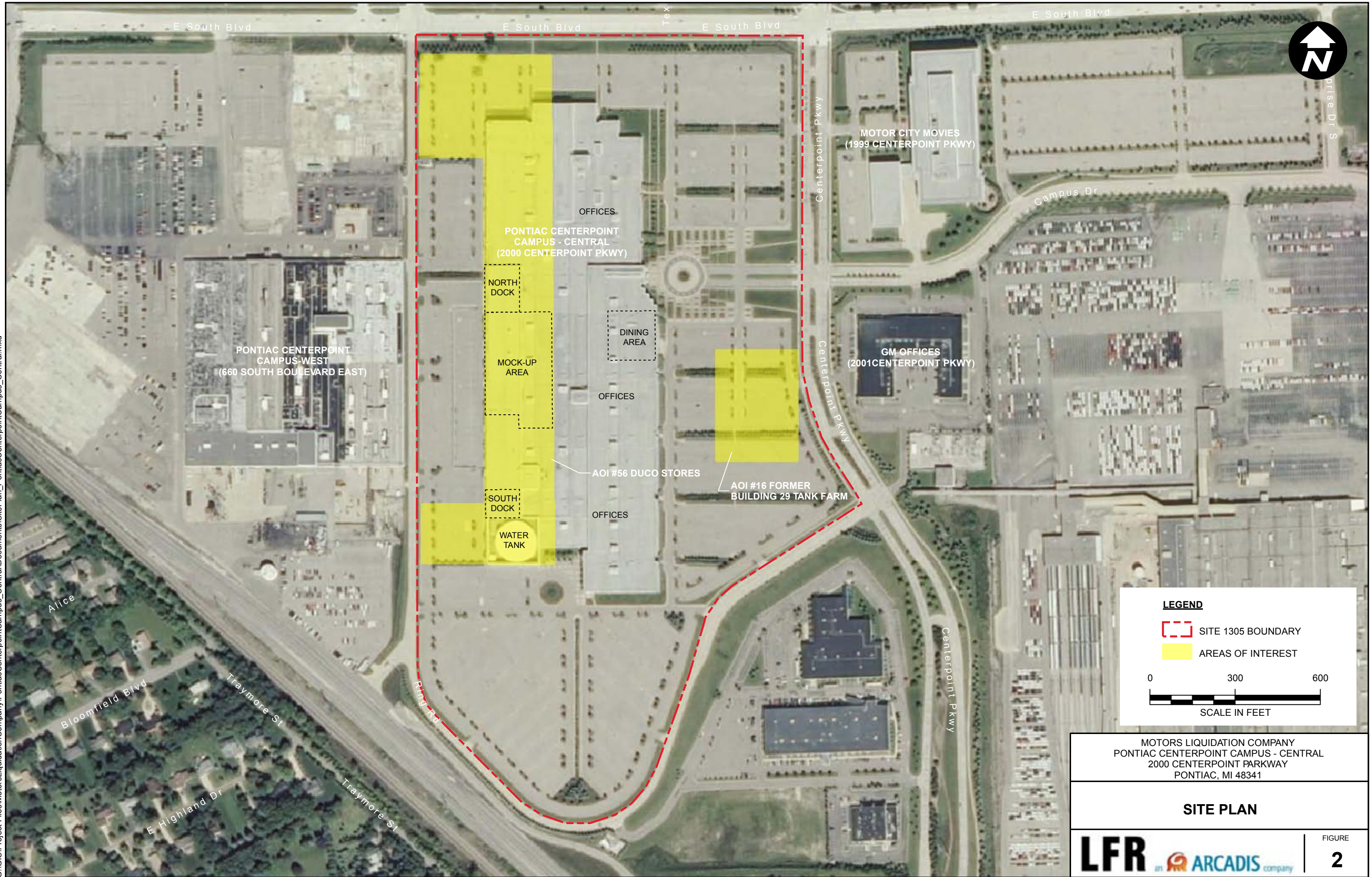
FIGURES

PROJECT NUMBER: BNO15317.0015.00001
CITY: NOVI DIV/GROUP: ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidation Company\PontiacCenterpointCampus_Central\Documents\SiteVicinityMap_PontiacCenterpointCampus_Central.mxd

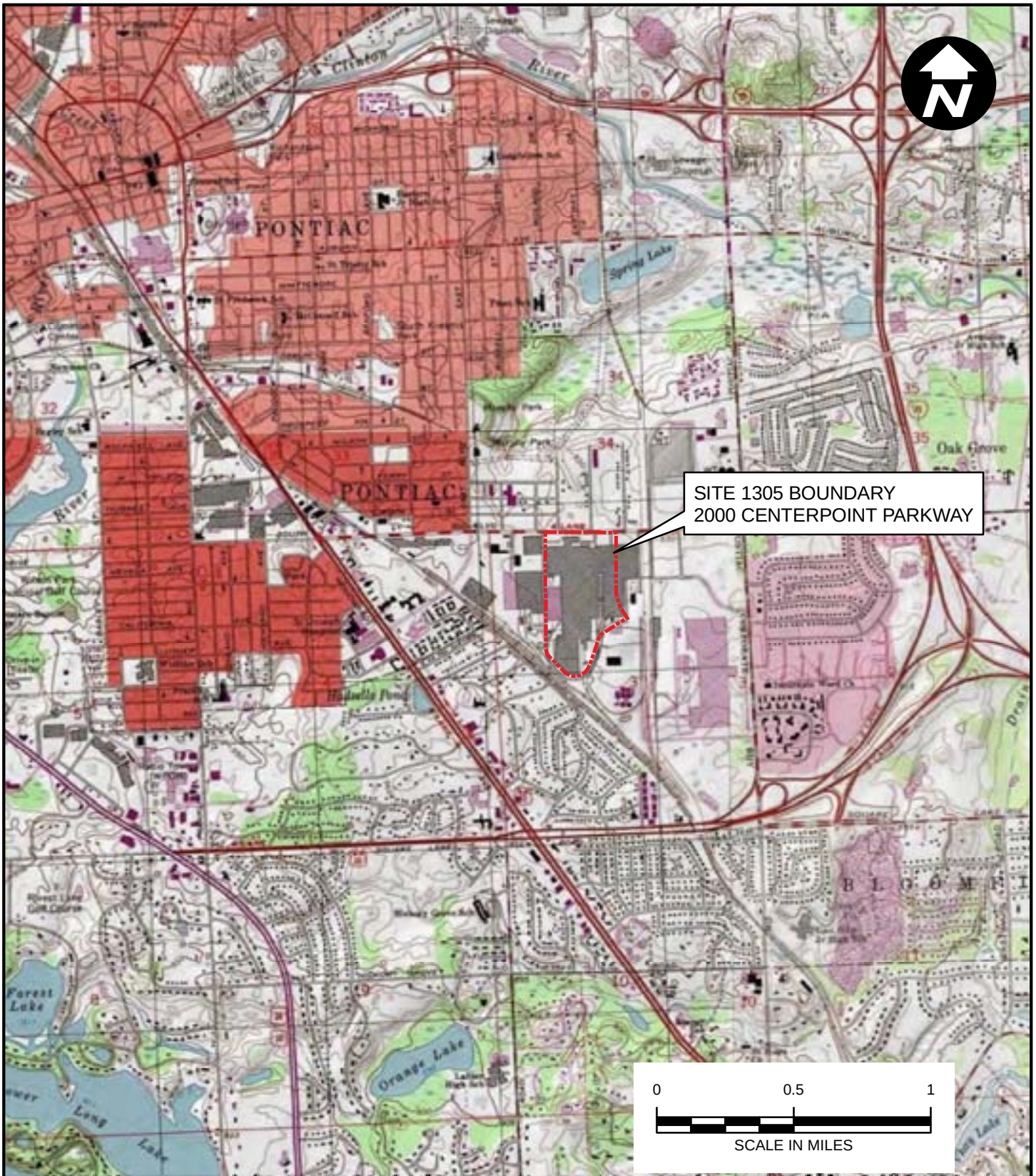


MOTORS LIQUIDATION COMPANY PONTIAC CENTERPOINT CAMPUS - CENTRAL 2000 CENTERPOINT PARKWAY PONTIAC, MI 48341	
SITE VICINITY MAP	
LFR 	FIGURE 1

PROJECT NUMBER: BN015317.0015.00001
CITY: NOVI DIV: GROUP: ENV DB: PIC: PM: TM: TR:
G:\GIS\Project Files\MotorsLiquidation Company\PontiacCenterpointCampus_Central\Documents\SitePlan_PontiacCenterpointCampus_Central.mxd



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



MOTORS LIQUIDATION COMPANY PONTIAC CENTERPOINT CAMPUS - CENTRAL 2000 CENTERPOINT PARKWAY PONTIAC, MI 48341	
USGS TOPOGRAPHIC MAP	
LFR 	FIGURE 3

APPENDIX A

User Questionnaire



ENVIRONMENTAL MANAGEMENT & CONSULTING ENGINEERING

Phase I Environmental Site Assessment Questionnaire

(User Provided Information Questionnaire)

Date: February 19, 2010

Site Name: PCC Central

Your Name: Robert W. Hare

Site Location: Pontiac, MI.

Your Title: Project Manager

Relationship to Site: ☐ Owner ☐ Occupant ☐ Purchaser ☒ Other

Length of Time Associated with Site: 5 years

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

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

☐ Yes ☐ No ☒ Unknown ☐ N/A

If Yes, please explain: _____

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

☒ Yes ☐ No ☐ Unknown ☐ N/A

If Yes, please explain: Deed notices restricting use of groundwater



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

☐ Yes ☒ No ☐ Unknown ☐ N/A

If Yes, please explain: _____

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

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

☒ Yes ☐ No ☐ Unknown ☐ N/A

If Yes, please explain: See Corrective Action Documentation _____

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

☐ Yes ☐ No ☒ Unknown ☐ N/A

If Yes, please explain: _____

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

☐ Yes ☐ No ☒ Unknown ☐ N/A

If Yes, please explain: _____

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

☒ Yes ☐ No ☐ Unknown ☐ N/A

If Yes, please explain: See Corrective Action documentation _____



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: See Corrective Action documentation _____

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 Central

200 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672058.5
January 06, 2010

The EDR Aerial Photo Decade Package

EDR Aerial Photo Decade Package

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

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Date EDR Searched Historical Sources:

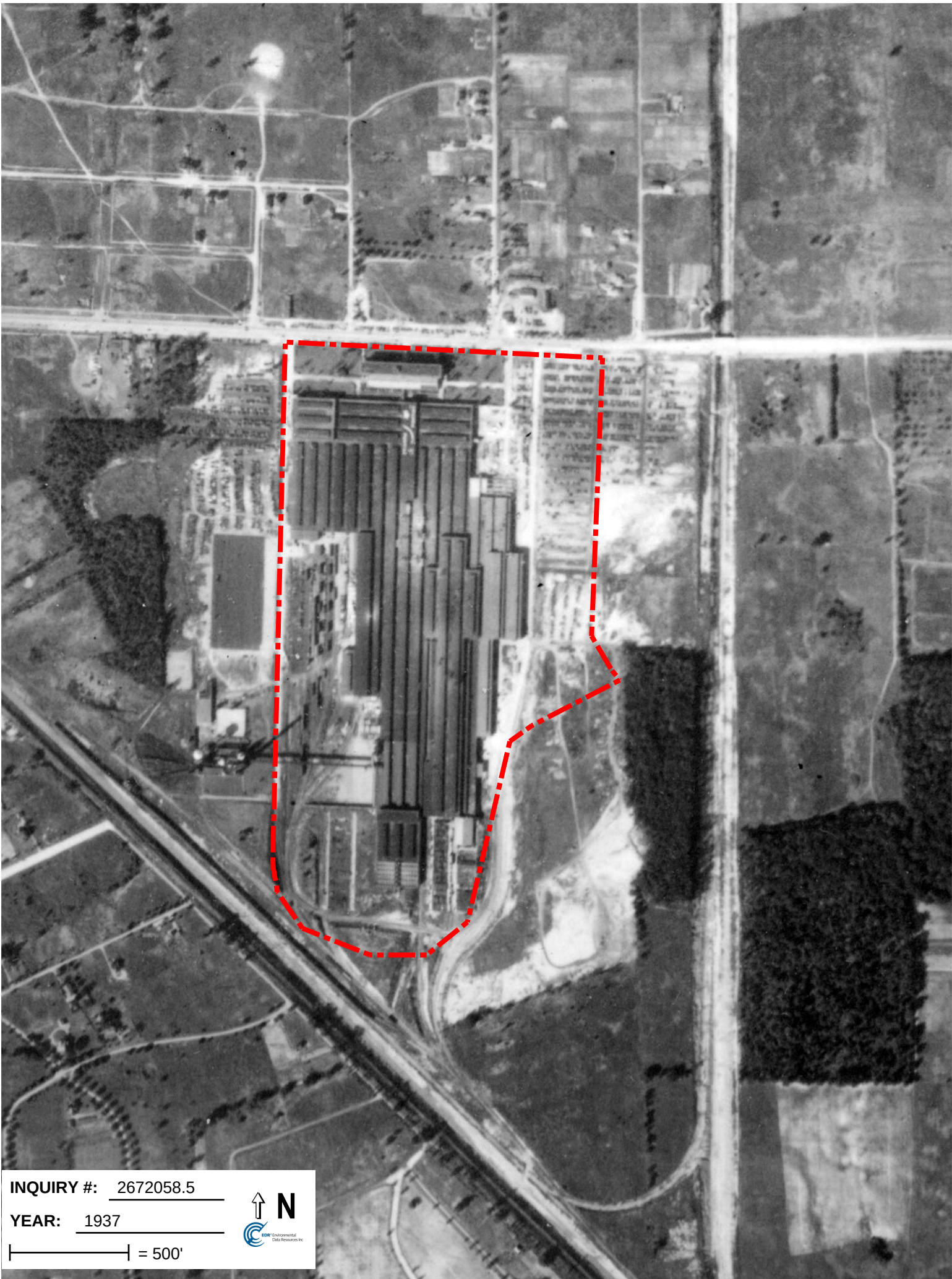
Aerial Photography January 06, 2010

Target Property:

200 South Boulevard East

Pontiac, MI 48341

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1937	Aerial Photograph. Scale: 1"=500'	Flight Year: 1937	AAA
1940	Aerial Photograph. Scale: 1"=500'	Flight Year: 1940	AAA
1949	Aerial Photograph. Scale: 1"=500'	Flight Year: 1949	Detroit Edison
1957	Aerial Photograph. Scale: 1"=500'	Flight Year: 1957	CSS
1964	Aerial Photograph. Scale: 1"=500'	Flight Year: 1964	ASCS
1972	Aerial Photograph. Scale: 1"=600'	Flight Year: 1972	ASCS
1980	Aerial Photograph. Scale: 1"=500'	Flight Year: 1980	SEMCOG
1993	Aerial Photograph. Scale: 1"=600'	Flight Year: 1993	NAPP
2000	Aerial Photograph. Scale: 1"=500'	Flight Year: 2000	SEMCOG
2005	Aerial Photograph. 1" = 604'	Flight Year: 2005	EDR



INQUIRY #: 2672058.5

YEAR: 1937

| = 500'



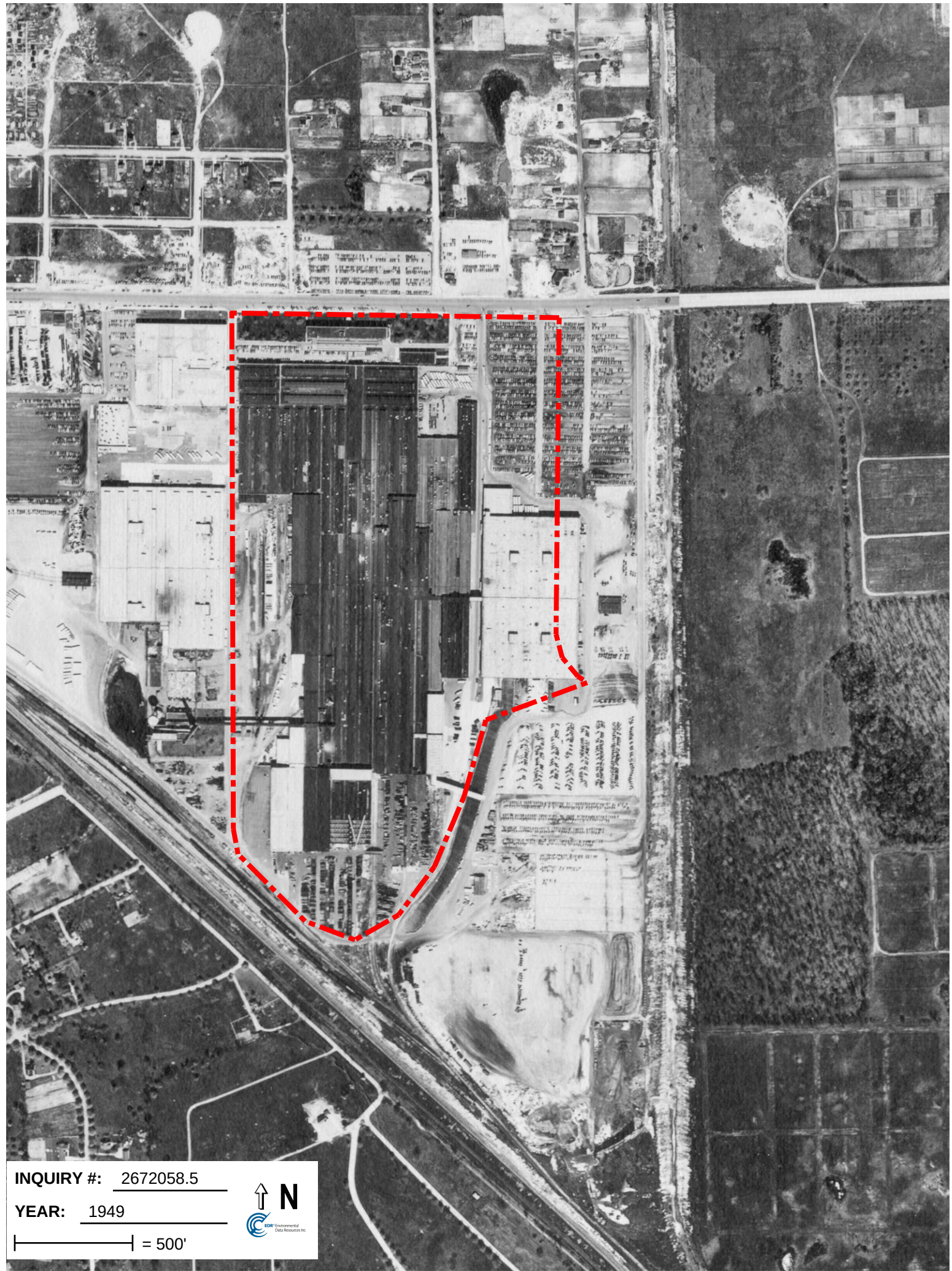


INQUIRY #: 2672058.5

YEAR: 1940

| = 500'





INQUIRY #: 2672058.5

YEAR: 1949

| = 500'





INQUIRY #: 2672058.5

YEAR: 1957

| = 500'



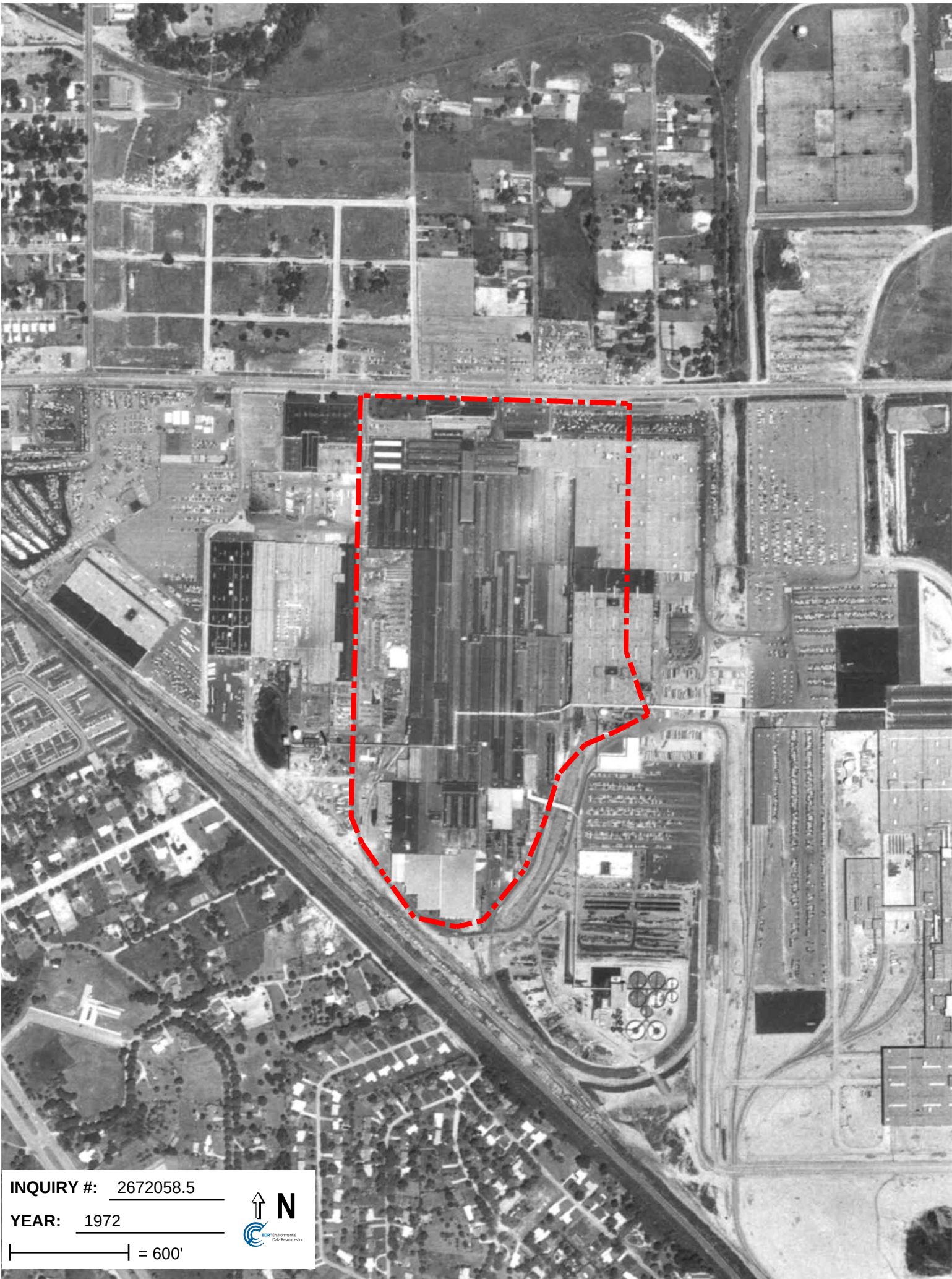


INQUIRY #: 2672058.5

YEAR: 1964

| = 500'



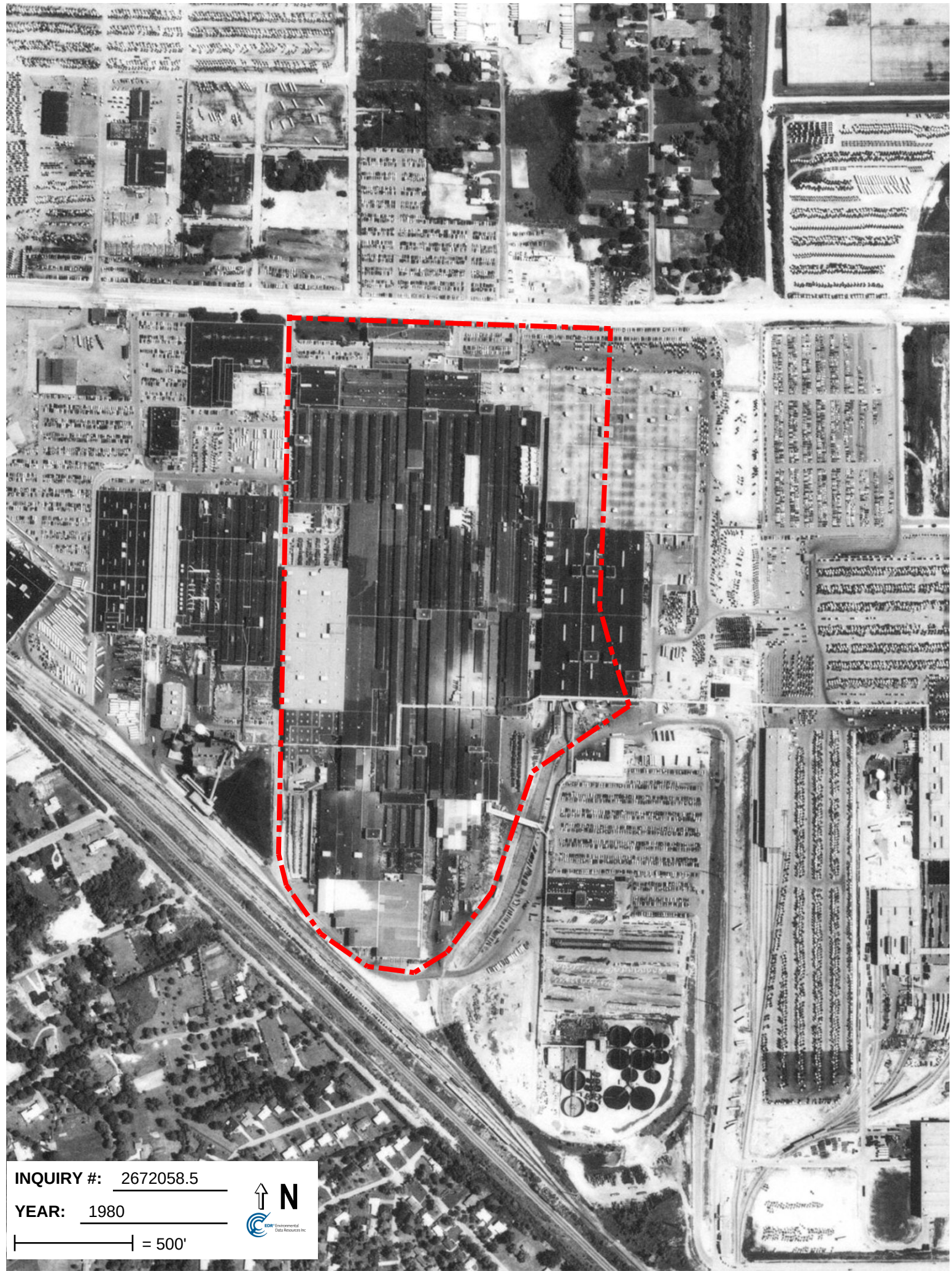


INQUIRY #: 2672058.5

YEAR: 1972

| = 600'



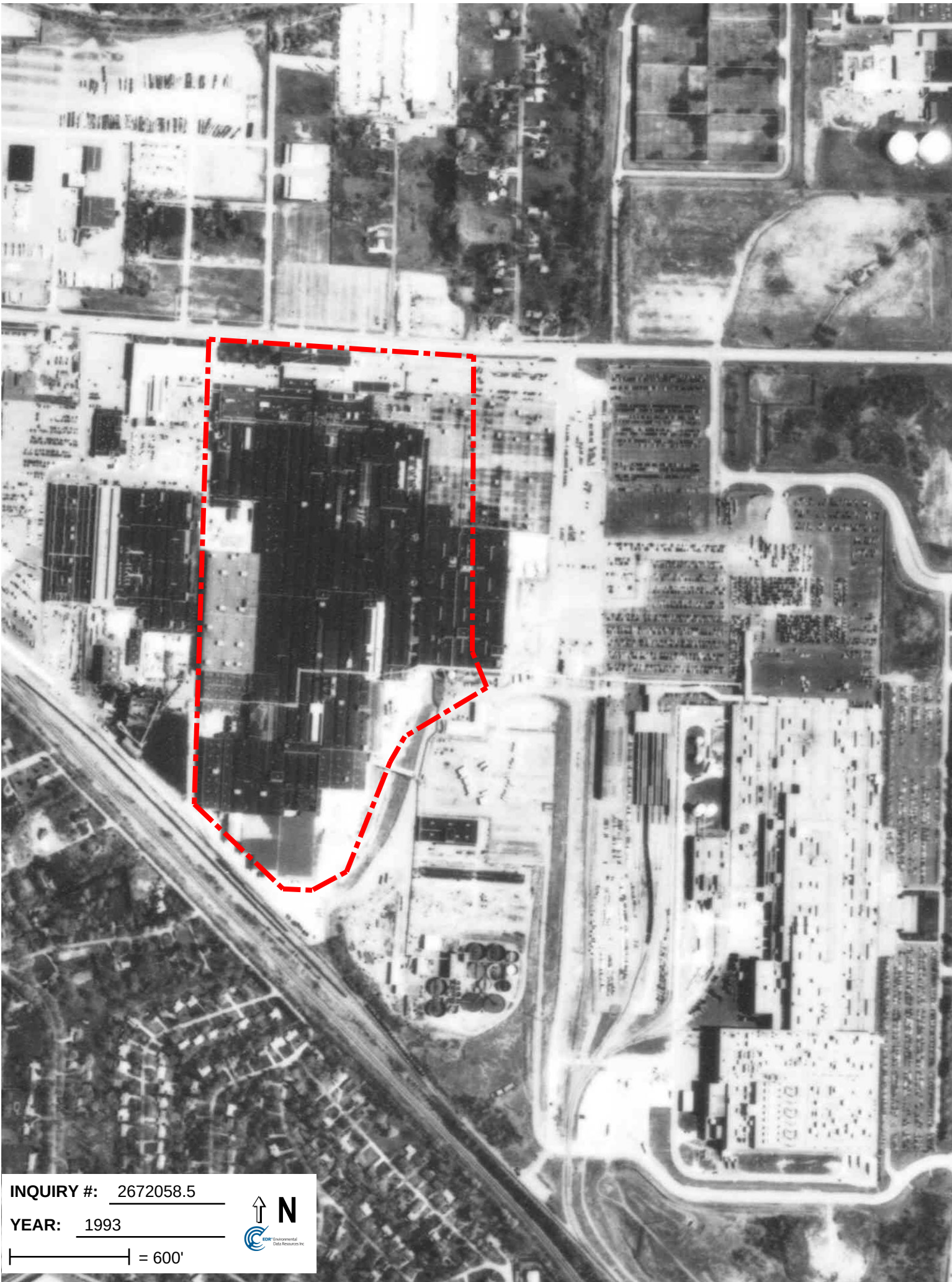


INQUIRY #: 2672058.5

YEAR: 1980

— = 500'



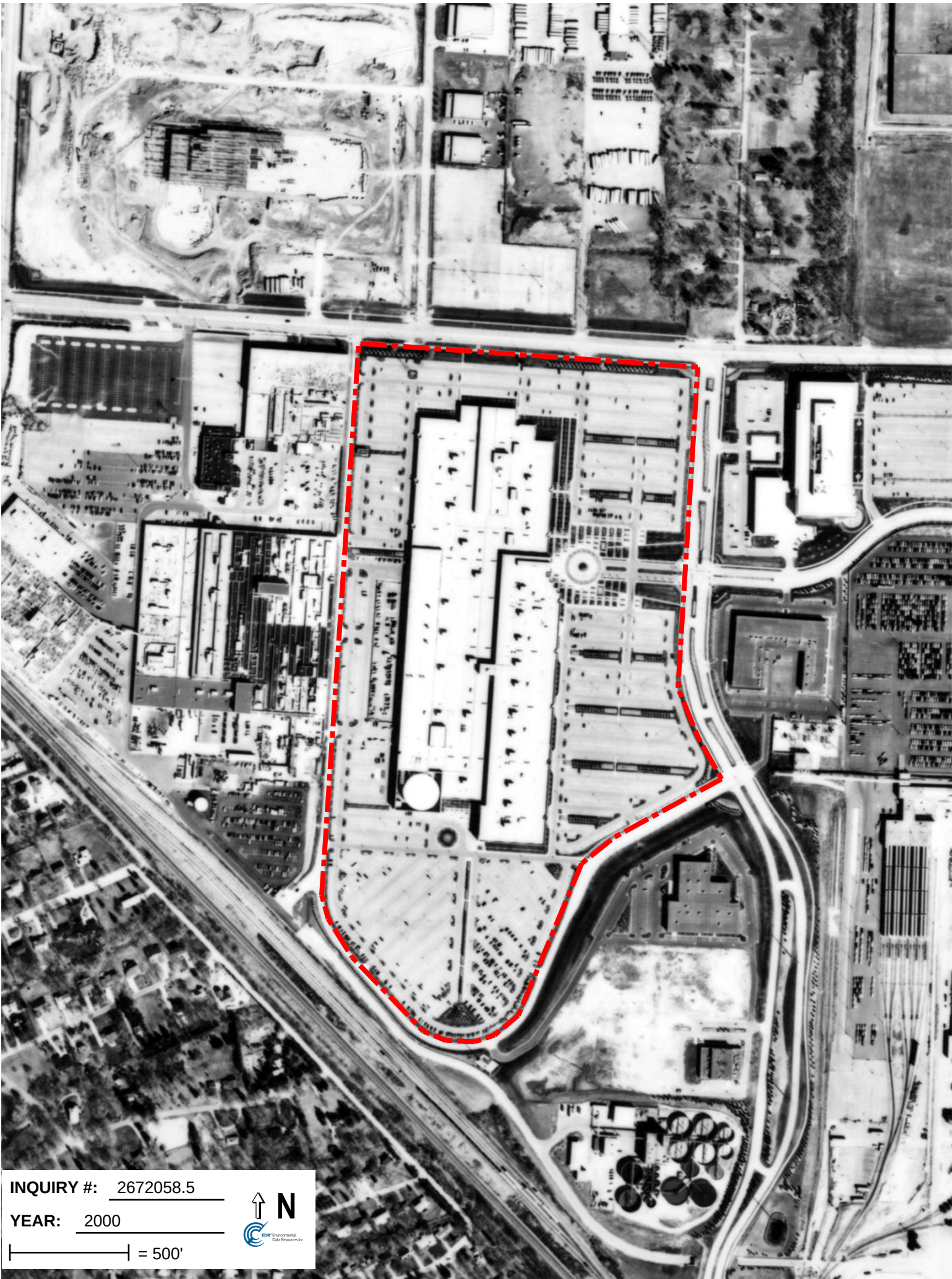


INQUIRY #: 2672058.5

YEAR: 1993

| = 600'



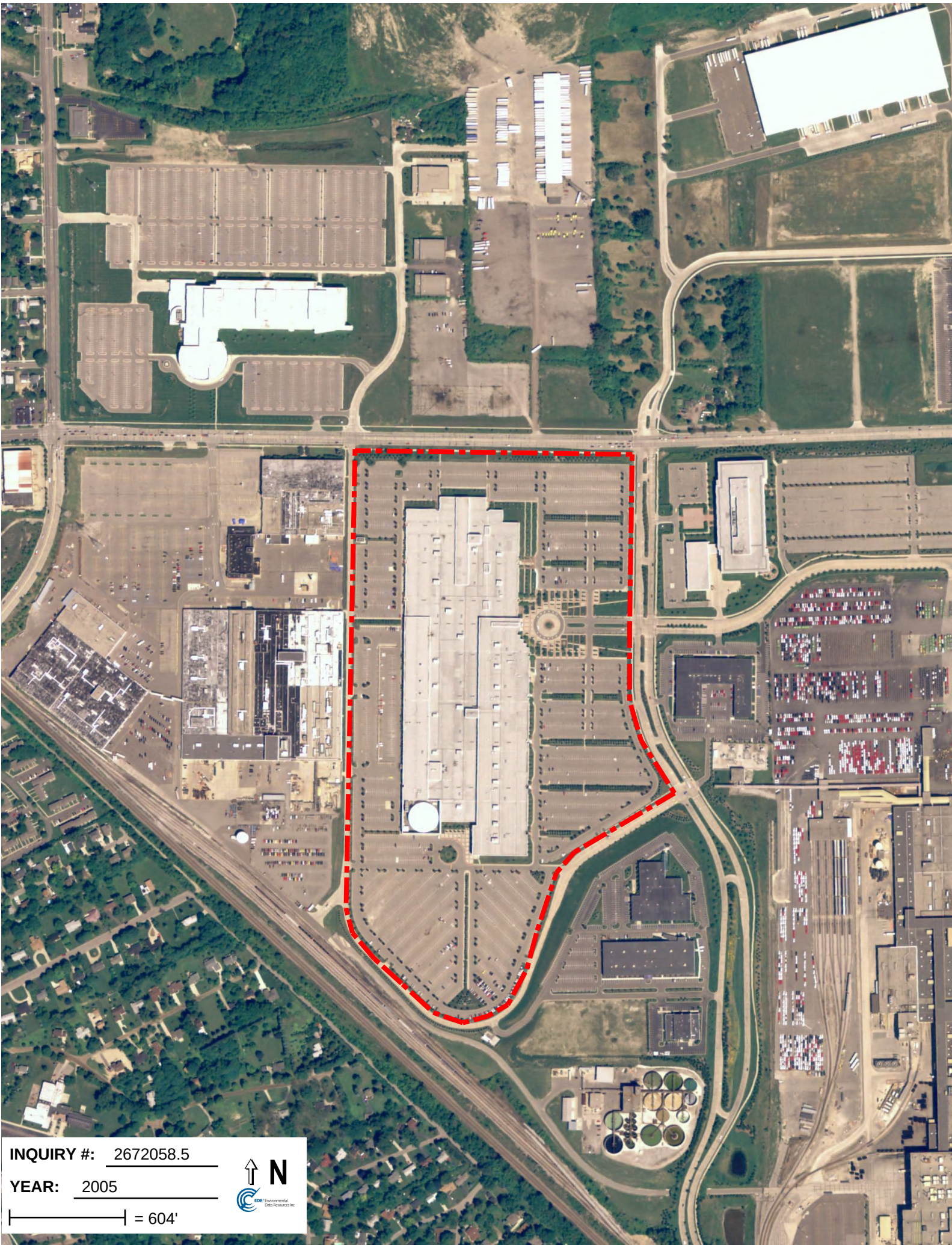


INQUIRY #: 2672058.5

YEAR: 2000

| = 500'





INQUIRY #: 2672058.5

YEAR: 2005

| = 604'



Sanborn Maps

PCC Central

200 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672058.3
January 06, 2010

Certified Sanborn® Map Report

Certified Sanborn® Map Report

1/06/10

Site Name:

PCC Central
200 South Boulevard East
Pontiac, MI 48341

Client Name:

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



Environmental Data Resources Inc

EDR Inquiry # 2672058.3

Contact: Moriah Bloom

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 Central
Address: 200 South Boulevard East
City, State, Zip: Pontiac, MI 48341
Cross Street:
P.O. # LFR Phase I for PCC Central
Project: CO000LFR.000S.00001
Certification # F9C2-41C2-955F



Sanborn® Library search results
Certification # F9C2-41C2-955F

Maps Provided:

1970
1950

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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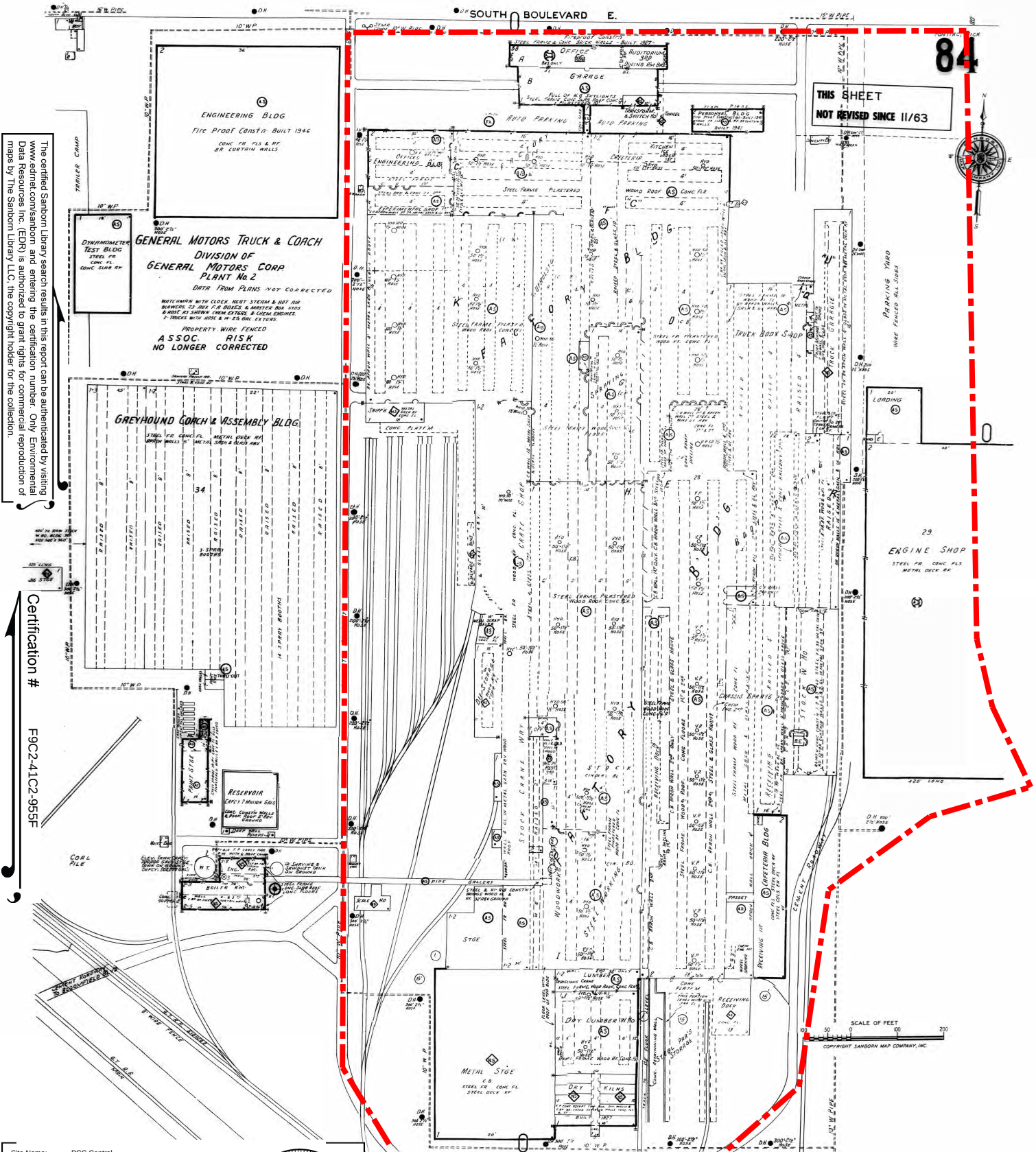
Certified Sanborn® Map Report Enhancements for 2009

The accompanying Certified Sanborn Map Report reflects a number of enhancements that make it easier for you to review these historical maps. EDR has digitally joined together the more than one million fire insurance maps from the Sanborn Library collection so that your target property is centered, making it easier for you to review adjoining properties. Here is a list of the new features:

- Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.
- All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.
- We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.
- A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

1970 Certified Sanborn Map



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Certification # F9C2-41C2-955F

Site Name: PCC Central
 Address: 200 South Boulevard East
 City, ST, ZIP: Pontiac MI 48341
 Client: ARCADIS U.S., Inc.
 EDR Inquiry: 2672058.3
 Order Date: 1/6/2010 11:54:02 AM
 Certification #: F9C2-41C2-955F



1950 Certified Sanborn Map

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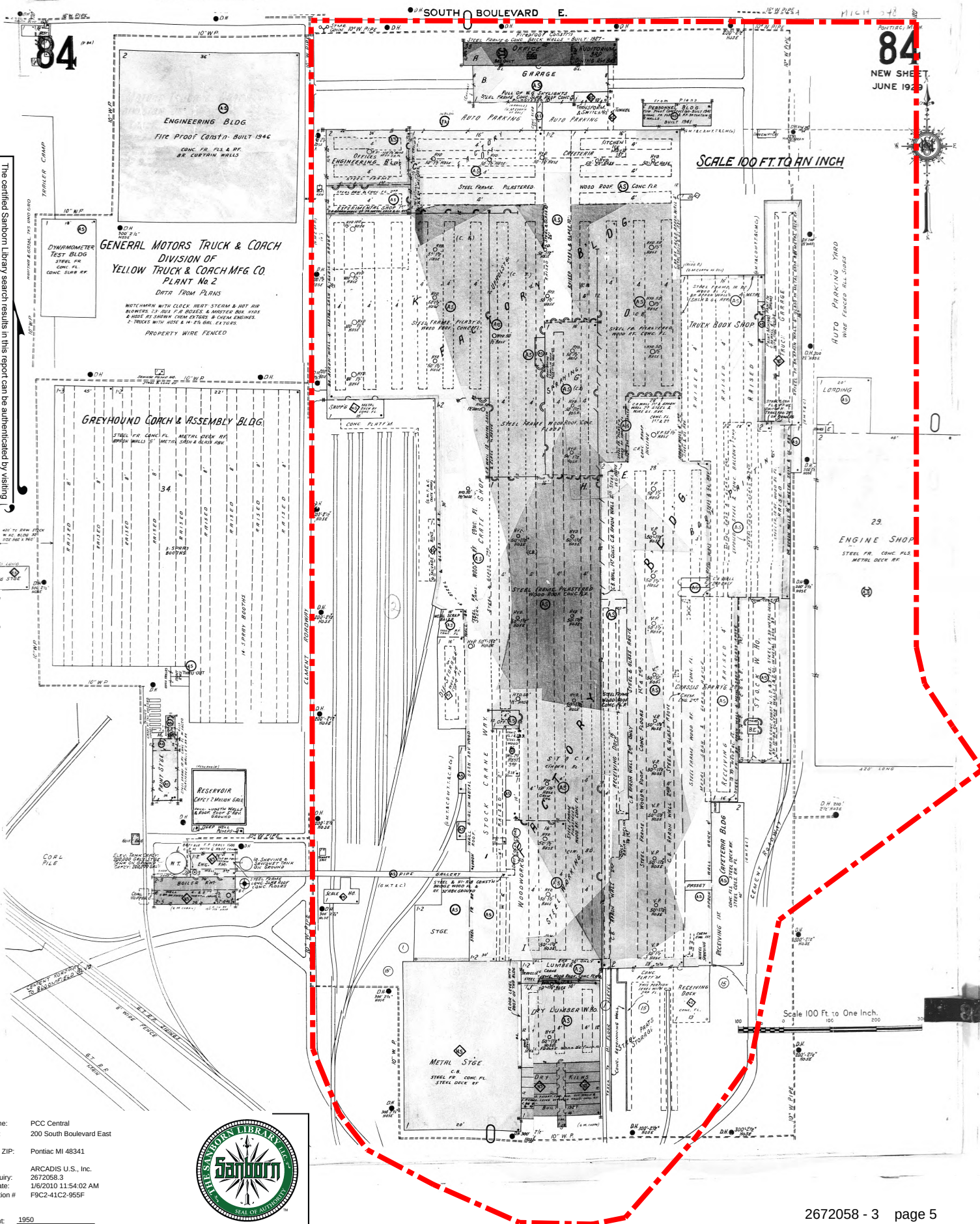
Certification #

F9C2-41C2-955F

Site Name: PCC Central
Address: 200 South Boulevard East
City, ST, ZIP: Pontiac MI 48341
Client: ARCADIS U.S., Inc.
EDR Inquiry: 2672058.3
Order Date: 1/6/2010 11:54:02 AM
Certification # F9C2-41C2-955F



Copyright: 1950



City Directory Abstract

PCC Central

2000 Center Point Parkway
Pontiac, MI 48341

Inquiry Number: 2678248.1
January 19, 2010

The EDR-City Directory Abstract

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SECTION

Executive Summary

Findings

Thank you for your business.

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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.

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

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

2000 Center Point Parkway
Pontiac, MI 48341

FINDINGS DETAIL

Target Property research detail.

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Aramark Facility Services	Bresser's Criss-Cross Directory
	Eds	Bresser's Criss-Cross Directory
	Environmental Corporate Remediation	Bresser's Criss-Cross Directory
	General Motors Corp.	Bresser's Criss-Cross Directory
	General Motors North America Mfg.	Bresser's Criss-Cross Directory
2004	GM Trck. Grp. Dacor Accounts Pay	Bresser's Criss-Cross Directory
	GM Trck. Grp. Hdqtrs. Trck. Prodt.	Bresser's Criss-Cross Directory
1999	GM Trck. Grp. Hdqtrs.	Bresser's Criss-Cross Directory
	GM Trck. Grp. Medcl.	Bresser's Criss-Cross Directory
	GM Trck. Grp. Plnt.	Bresser's Criss-Cross Directory

FINDINGS

ADJOINING PROPERTY DETAIL

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

Center Point Parkway

Center Point Parkway

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	-No Addresses Listed Before 1999 Center Point Parkway	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 2000-2500 Block Center Point Parkway	Bresser's Criss-Cross Directory
2004	-No Addresses Listed Before 1999 Center Point Parkway	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 2000-2400 Block Center Point Parkway	Bresser's Criss-Cross Directory
1999	-No Addresses Listed Before 2000 Center Point Parkway	Bresser's Criss-Cross Directory
	-No Other Addresses Listed 2000-2400 Block Center Point Parkway	Bresser's Criss-Cross Directory

1999 Center Point Parkway

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Aramark Corp.	Bresser's Criss-Cross Directory
	General Motors Corp.	Bresser's Criss-Cross Directory
	General Motors Truck Group	Bresser's Criss-Cross Directory
2004	No Return	Bresser's Criss-Cross Directory

2001 Center Point Parkway

<u>Year</u>	<u>Uses</u>	<u>Source</u>
2009	Office Building (7 occupants)	Bresser's Criss-Cross Directory
2004	Office Building (7 occupants)	Bresser's Criss-Cross Directory
1999	Office Building (9 occupants)	Bresser's Criss-Cross Directory

FINDINGS

STREET NOT LISTED IN RESEARCH SOURCE

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

Street Researched

Center Point Parkway

Street Not Listed in Research Source

1994, 1989, 1984, 1979, 1973, 1962, 1957, 1952, 1945, 1939, 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

1999 Center Point Parkway

Address Not Listed in Research Source

1999

Topographic Maps

PCC Central

200 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672058.4
January 06, 2010

The EDR Historical Topographic Map Report

EDR Historical Topographic Map Report

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

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with any questions or comments.

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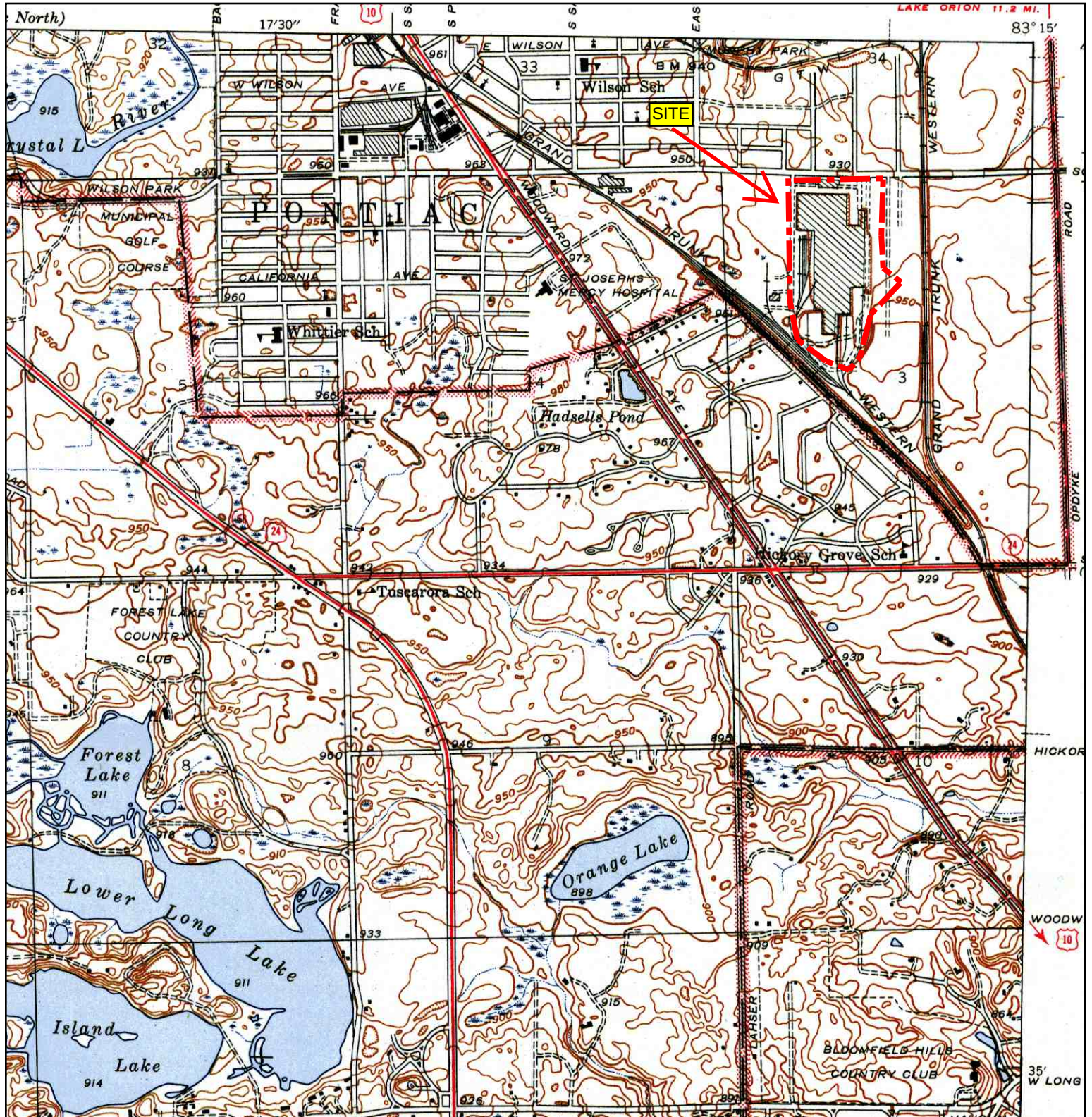
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Historical Topographic Map



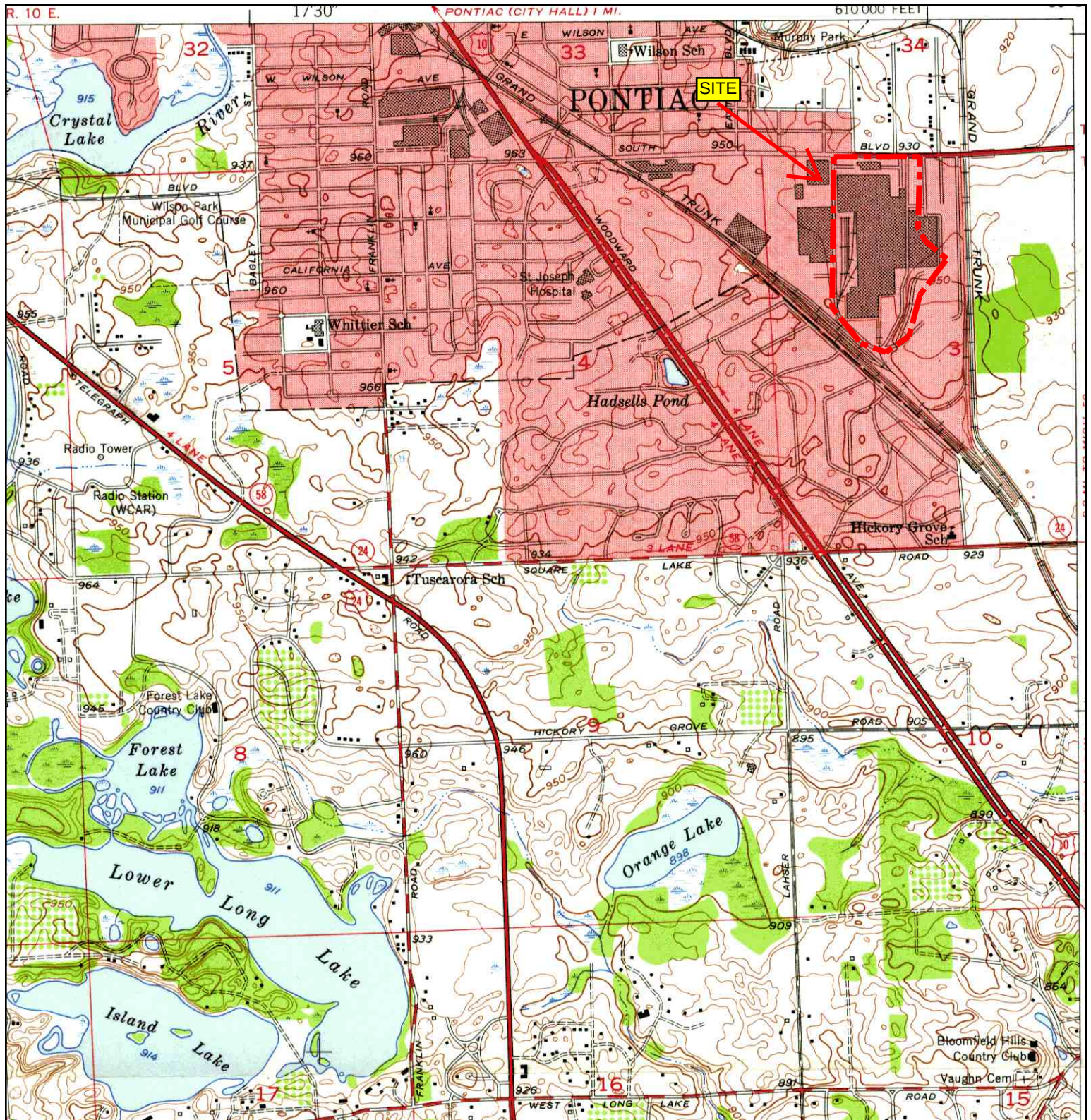
	TARGET QUAD NAME: PONTIAC MAP YEAR: 1907	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
	SERIES: 15 SCALE: 1:62500		

Historical Topographic Map



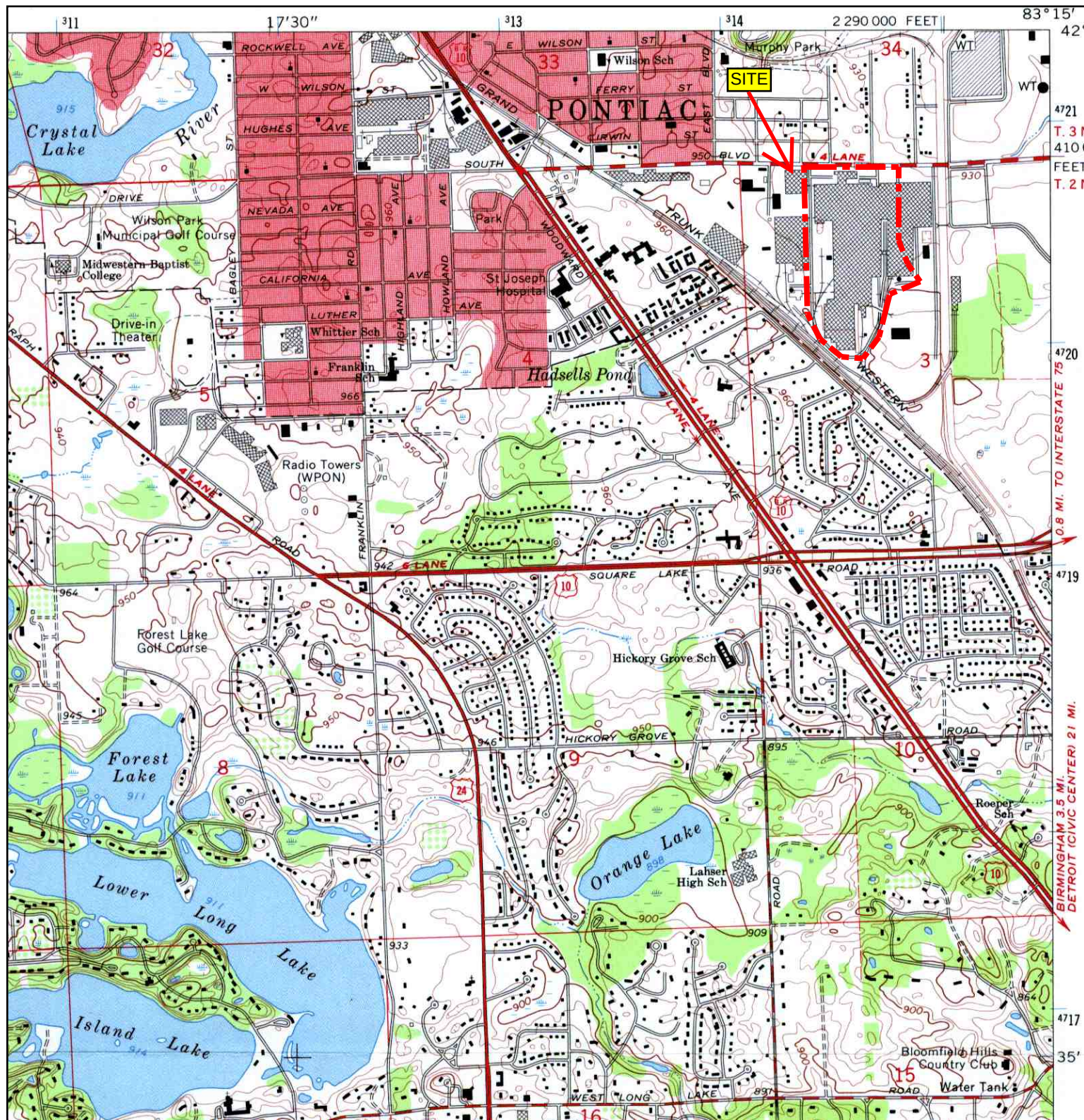
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1943 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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Historical Topographic Map



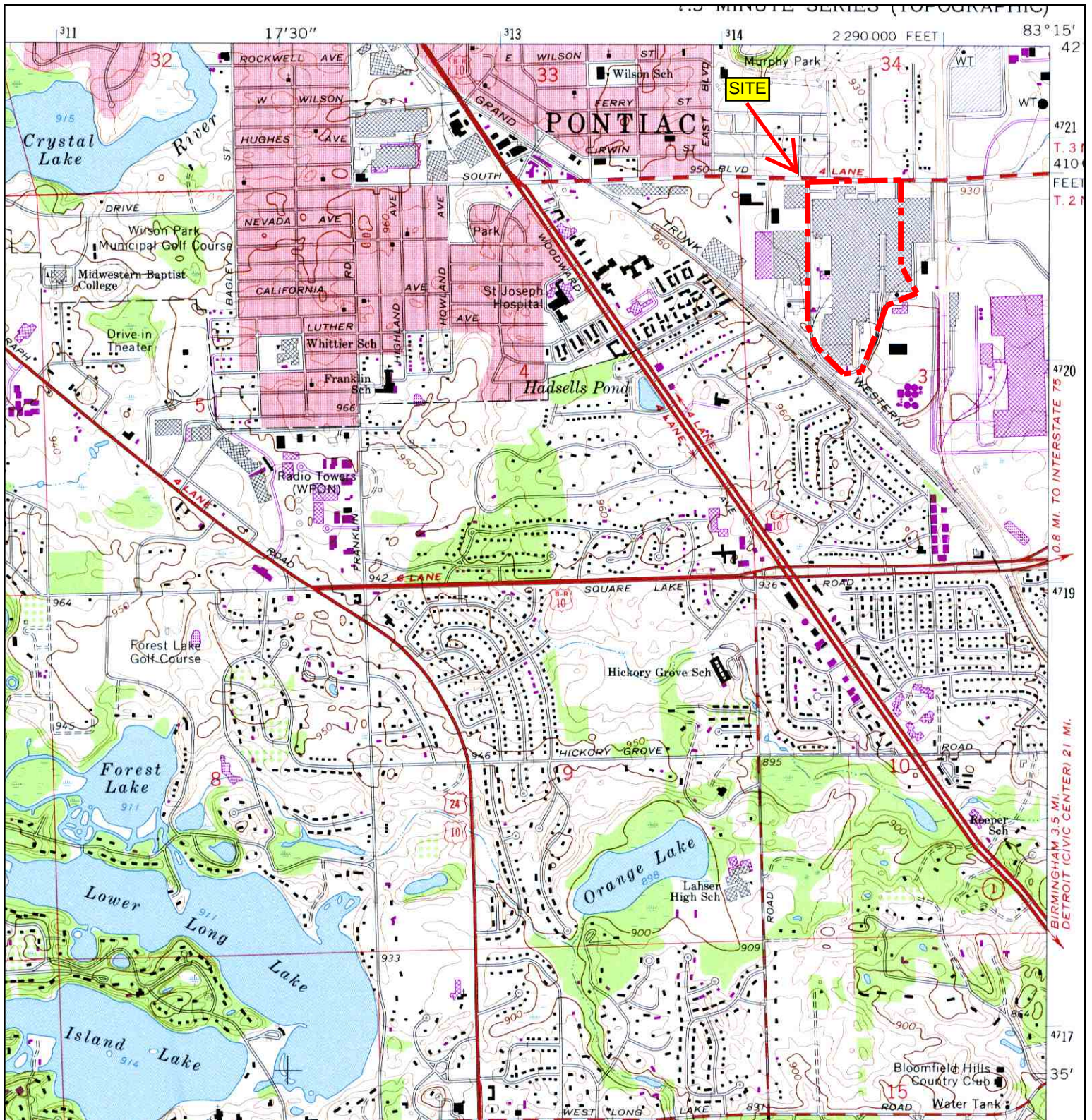
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1952 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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Historical Topographic Map



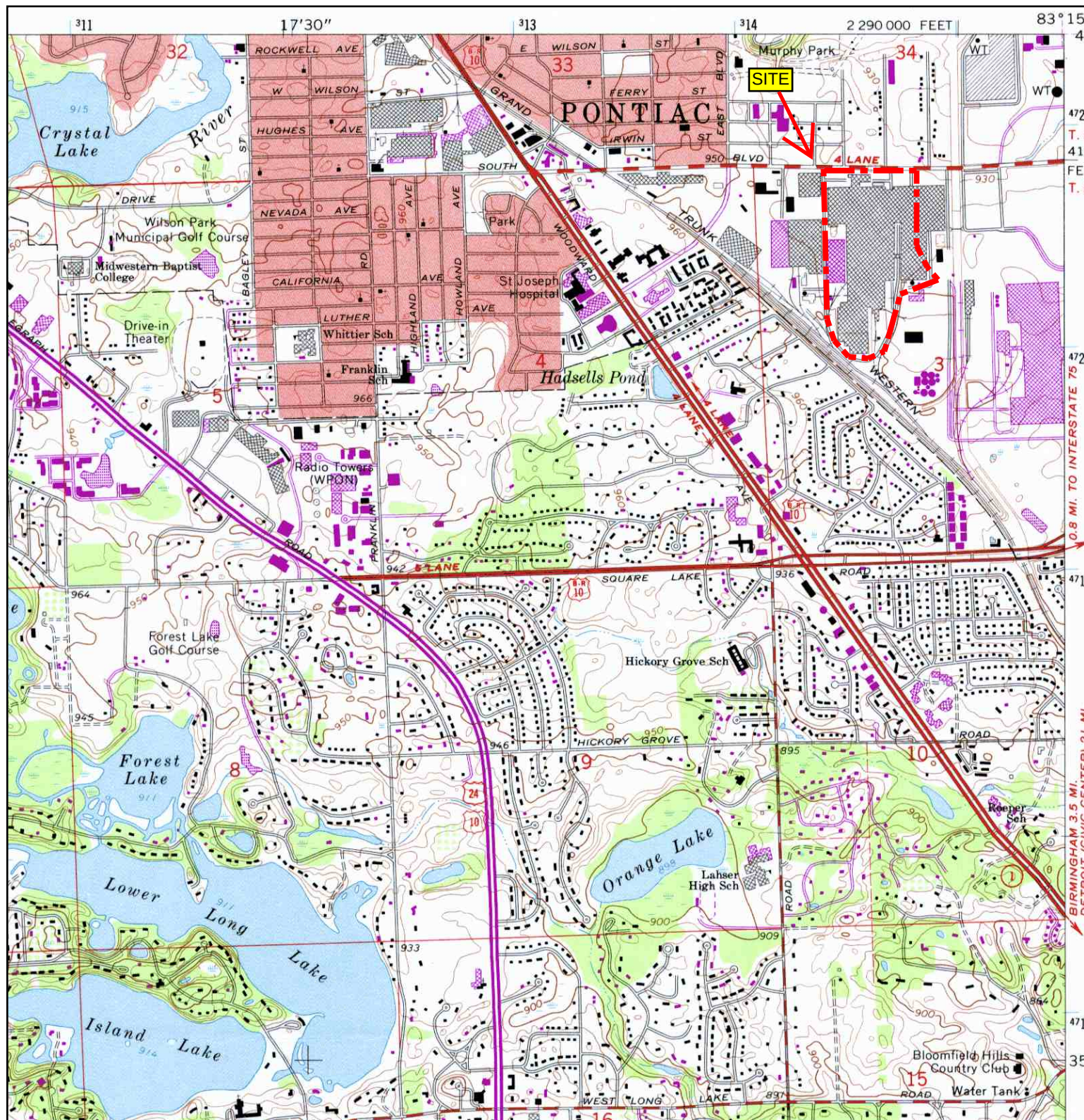
N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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Historical Topographic Map



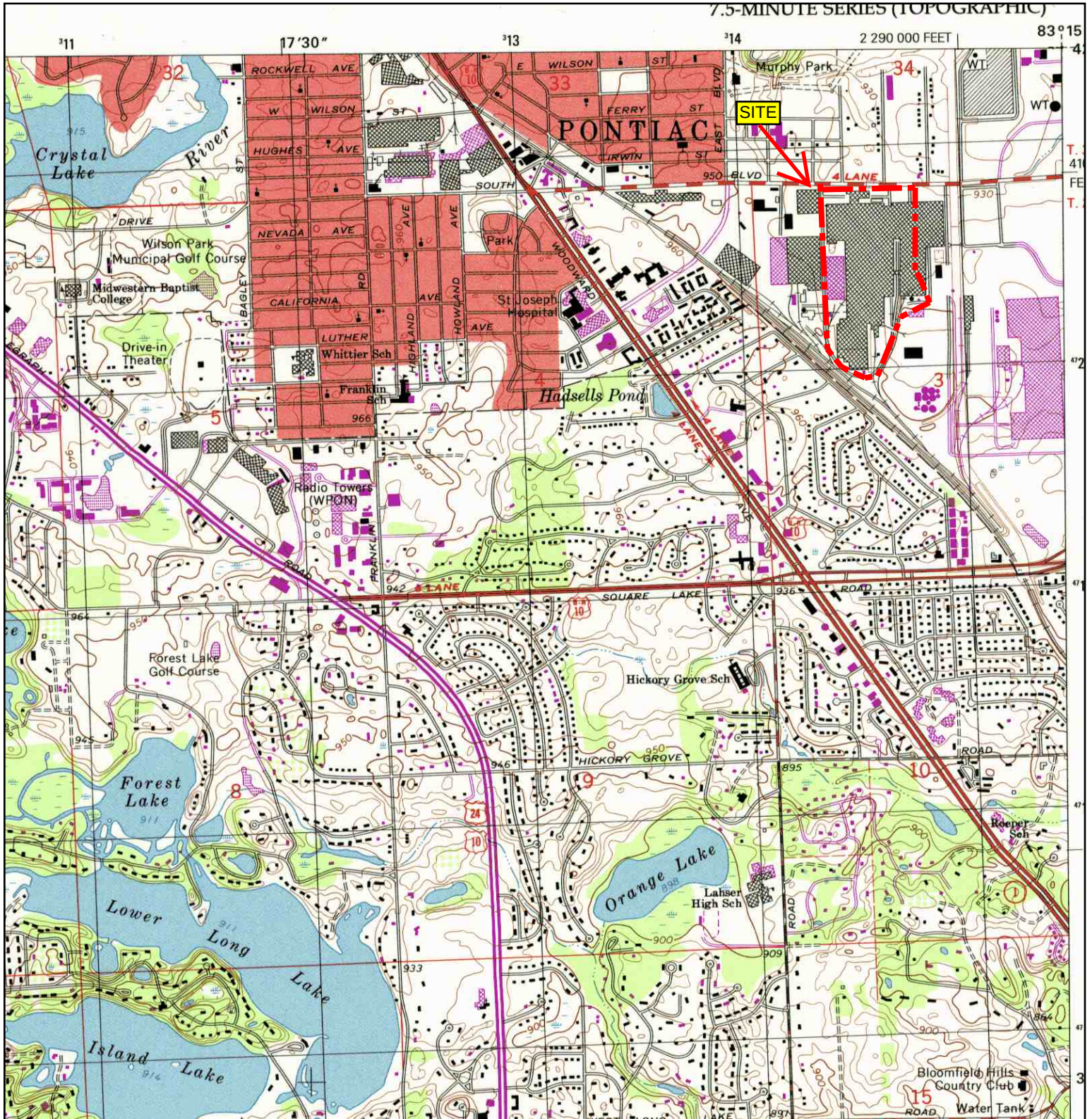
N	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1973 PHOTOREVISED FROM: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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Historical Topographic Map



N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1983 PHOTOREVISED FROM: 1968 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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Historical Topographic Map



N ↑	TARGET QUAD NAME: PONTIAC SOUTH MAP YEAR: 1997 SERIES: 7.5 SCALE: 1:24000	SITE NAME: PCC Central ADDRESS: 200 South Boulevard East Pontiac, MI 48341 LAT/LONG: 42.6173 / 83.2607	CLIENT: ARCADIS U.S., Inc. CONTACT: Moriah Bloom INQUIRY#: 2672058.4 RESEARCH DATE: 01/06/2010
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APPENDIX C

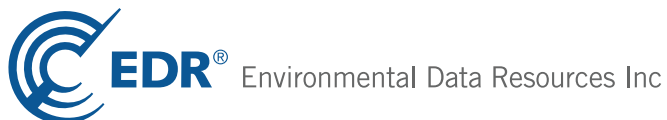
EDR Radius Map Report

PCC Central

200 South Boulevard East
Pontiac, MI 48341

Inquiry Number: 2672058.2s
January 06, 2010

The EDR Radius Map™ Report with GeoCheck®



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

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

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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

200 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

COORDINATES

Latitude (North):	42.617300 - 42° 37' 2.3"
Longitude (West):	83.260700 - 83° 15' 38.5"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	314585.3
UTM Y (Meters):	4720581.0
Elevation:	929 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 not listed in any of the databases searched by EDR.

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

Federal institutional controls / engineering controls registries

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

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent CERCLIS

SHWS..... Contaminated Sites

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

SWF/LF..... Solid Waste Facilities Database

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

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

EXECUTIVE SUMMARY

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

Local Land Records

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

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System
SPILLS..... Pollution Emergency Alerting System

Other Ascertainable Records

DOT OPS..... Incident and Accident Data
DOD..... Department of Defense Sites
FUDS..... Formerly Used Defense Sites
CONSENT..... Superfund (CERCLA) Consent Decrees
ROD..... Records Of Decision
UMTRA..... Uranium Mill Tailings Sites
MINES..... Mines Master Index File
TRIS..... Toxic Chemical Release Inventory System
TSCA..... Toxic Substances Control Act
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
SSTS..... Section 7 Tracking Systems
ICIS..... Integrated Compliance Information System

EXECUTIVE SUMMARY

PADS.....	PCB Activity Database System
MLTS.....	Material Licensing Tracking System
RADINFO.....	Radiation Information Database
FINDS.....	Facility Index System/Facility Registry System
RAATS.....	RCRA Administrative Action Tracking System
UIC.....	Underground Injection Wells Database
DRYCLEANERS.....	Drycleaning Establishments
NPDES.....	List of Active NPDES Permits
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

EXECUTIVE SUMMARY

1 CERC-NFRAP site within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>NNW 1/8 - 1/4 (0.173 mi.)</i>	<i>A3</i>	<i>8</i>

Federal RCRA CORRACTS facilities list

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

A review of the CORRACTS list, as provided by EDR, and dated 09/15/2009 has revealed that there is 1 CORRACTS site within approximately 1.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>NNW 1/8 - 1/4 (0.173 mi.)</i>	<i>A3</i>	<i>8</i>

Federal RCRA non-CORRACTS TSD facilities list

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

A review of the RCRA-TSDF list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-TSDF site within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>NNW 1/8 - 1/4 (0.173 mi.)</i>	<i>A3</i>	<i>8</i>

Federal RCRA generators list

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

A review of the RCRA-LQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-LQG site within approximately 0.375 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>GMC TRUCK & COACH DIV PONTIAC</i>	<i>660 S BLVD E</i>	<i>NNW 1/8 - 1/4 (0.173 mi.)</i>	<i>A3</i>	<i>8</i>

EXECUTIVE SUMMARY

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

A review of the RCRA-CESQG list, as provided by EDR, and dated 11/12/2008 has revealed that there is 1 RCRA-CESQG site within approximately 0.375 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
IRVIN AUTOMOTIVE PRODUCTS	2600 CENTERPOINT PARKWAY	1/4 - 1/2 (0.369 mi.)	10	45

Federal institutional controls / engineering controls registries

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

A review of the US INST CONTROL list, as provided by EDR, and dated 10/01/2009 has revealed that there is 1 US INST CONTROL site within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GMC TRUCK & COACH DIV PONTIAC	660 S BLVD E	NNW 1/8 - 1/4 (0.173 mi.)	A3	8

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 2 LUST sites within approximately 0.625 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM - PONTIAC CENTERPOINT CAMPU Facility Status: Open Facility Status: Open <i>*Additional key fields are available in the Map Findings section</i>	660 S BOULEVARD EAST	W 1/4 - 1/2 (0.261 mi.)	C8	36
GAUKLER STORAGE CO Facility Status: Closed	400 SOUTH BLVD E	WNW 1/2 - 1 (0.620 mi.)	D12	52

EXECUTIVE SUMMARY

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF PONTIAC	650 PLAINFIELD	NW 1/8 - 1/4 (0.245 mi.)	B7	34
GM - PONTIAC CENTERPOINT CAMPU	660 S BOULEVARD EAST	W 1/4 - 1/2 (0.261 mi.)	C9	37

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.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANKERSON RESOURCE SYSTEMS INC	400 SOUTH BLVD E	WNW 1/2 - 1 (0.620 mi.)	D11	50

Local Land Records

LIENS: 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

A review of the LIENS list, as provided by EDR, and dated 08/12/2009 has revealed that there is 1 LIENS site within approximately 0.125 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM PONTIAC CORPORATION	2000 CENTERPOINT PKWY	ENE 0 - 1/8 (0.017 mi.)	1	7

Other Ascertainable Records

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

A review of the RCRA-NonGen list, as provided by EDR, and dated 11/12/2008 has revealed that there is

EXECUTIVE SUMMARY

1 RCRA-NonGen site within approximately 0.375 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SWINTERS SVC CTR	807 SOUTH BLVD	NE 1/8 - 1/4 (0.233 mi.)	6	32

AIRS: Permit and emissions inventory data.

A review of the AIRS list, as provided by EDR, and dated 12/31/2007 has revealed that there is 1 AIRS site within approximately 0.125 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GM PONTIAC CORPORATION	2000 CENTERPOINT PKWY	ENE 0 - 1/8 (0.017 mi.)	1	7

BEA: Baseline Environmental Assessment.

A review of the BEA list, as provided by EDR, and dated 12/02/2009 has revealed that there are 3 BEA sites within approximately 0.5 miles of the target property.

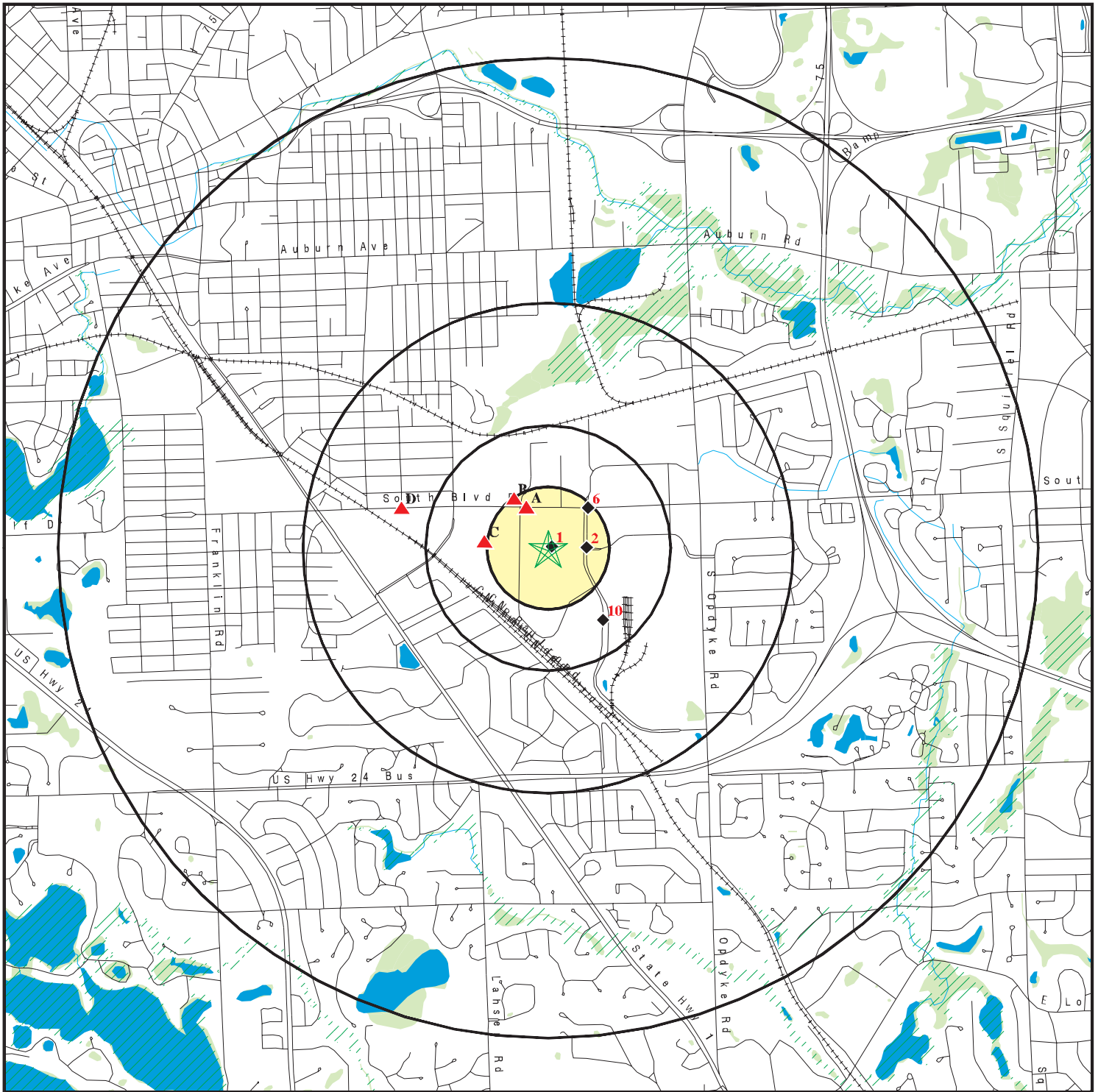
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
SOUTH BOULEVARD COMMERCIAL BUI OFFICE BUILDING	655 SOUTH BOULEVARD EAS	NNW 1/8 - 1/4 (0.189 mi.)	A4	31
	585 SOUTH BOULEVARD EAS	NW 1/8 - 1/4 (0.225 mi.)	B5	32
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MOTOWN MOTION PICTURES LLC	1999 CENTERPOINT PARKWAE	1/8 - 1/4 (0.158 mi.)	2	7

EXECUTIVE SUMMARY

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

<u>Site Name</u>	<u>Database(s)</u>
ADAMS AND AUBURN RD DEVELOPMENT	SHWS
SHELL DRY WELL 1 TELEGRAPH	SHWS
GM TRUCK AND BUS PONTIAC CENTRAL	SHWS
3951 JOSLYN RD	CERC-NFRAP, SHWS
KENNETT RD LF	SHWS
ASPHALT SPECIALIST INC	SHWS, DEL SHWS
871 SOUTH BLVD	CERC-NFRAP
WOODWARD AVE & SQUARE LAKE ROAD	LUST
7660 HIGHLAND RD	RCRA-NonGen, FINDS
7585 HIGHLAND RD	RCRA-NonGen, FINDS
660 SOUTH BLVD	MLTS
UAG MICHIGAN H1, LLC	BEA
SOUTH SAGINAW STREET PARCELS	BEA
UNIT 52 CENTERPOINT BUSINESS CAMPUS	BEA
AMERICAN AGGREGATES OF MICHIGAN, INC	MINES

OVERVIEW MAP - 2672058.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

⚙ Manufactured Gas Plants

☒ National Priority List Sites

☒ Dept. Defense Sites

☒ Indian Reservations BIA

— Oil & Gas pipelines

▨ 100-year flood zone

▨ 500-year flood zone

■ National Wetland Inventory

■ State Wetlands

0 1/2 1 2 Miles

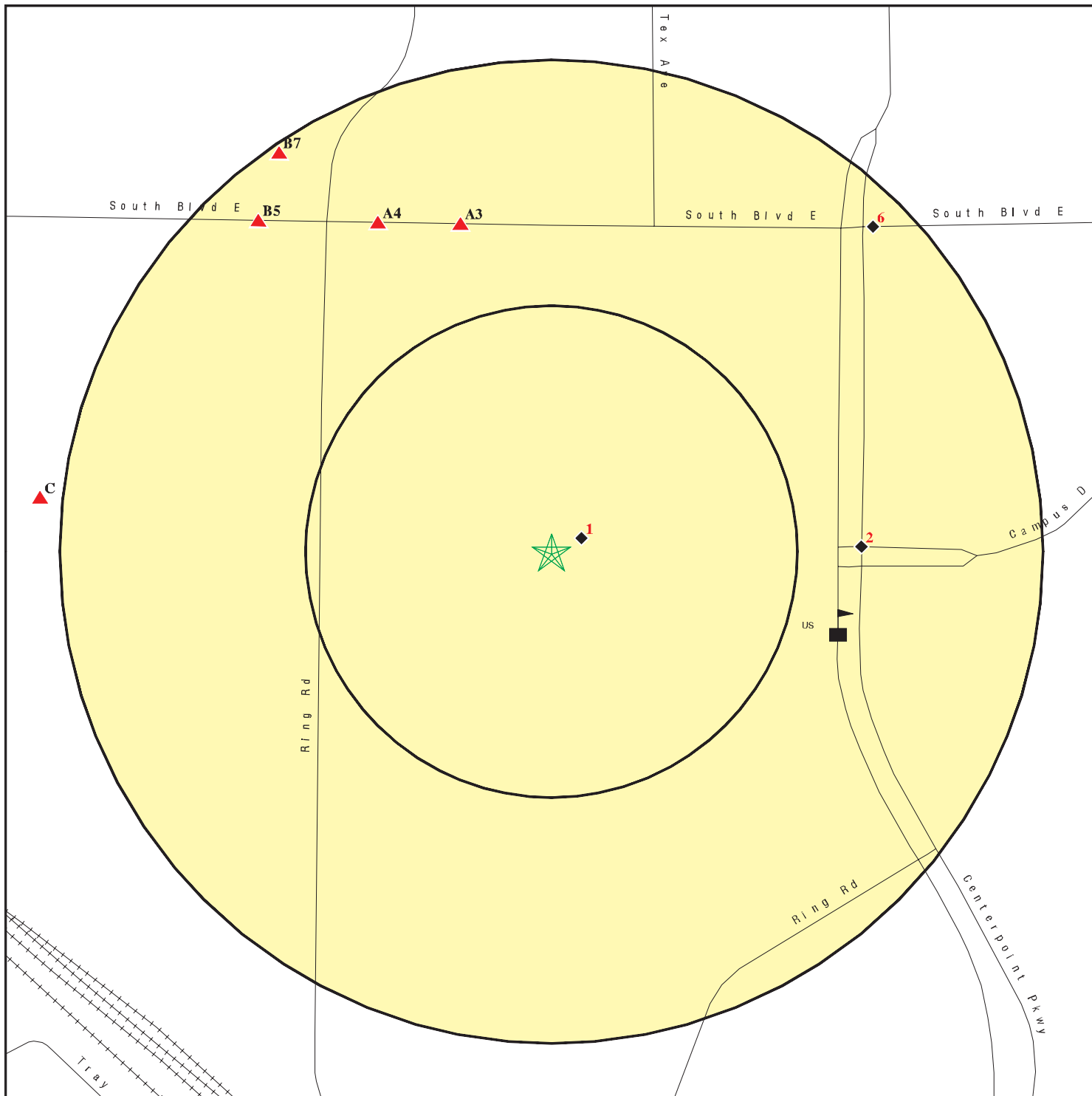


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: PCC Central
ADDRESS: 200 South Boulevard East
Pontiac MI 48341
LAT/LONG: 42.6173 / 83.2607

CLIENT: ARCADIS U.S., Inc.
CONTACT: Moriah Bloom
INQUIRY #: 2672058.2s
DATE: January 06, 2010 11:01 am

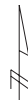
DETAIL MAP - 2672058.2s



- ★ 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

0 1/16 1/8 1/4 Miles



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

SITE NAME: PCC Central
 ADDRESS: 200 South Boulevard East
 Pontiac MI 48341
 LAT/LONG: 42.6173 / 83.2607

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Moriah Bloom
 INQUIRY #: 2672058.2s
 DATE: January 06, 2010 11:01 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>STANDARD ENVIRONMENTAL RECORDS</u>								
<i>Federal NPL site list</i>								
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
<i>Federal Delisted NPL site list</i>								
Delisted NPL		1.125	0	0	0	0	0	0
<i>Federal CERCLIS list</i>								
CERCLIS		0.625	0	0	0	0	NR	0
FEDERAL FACILITY		1.125	0	0	0	0	0	0
<i>Federal CERCLIS NFRAP site List</i>								
CERC-NFRAP		0.625	0	1	0	0	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS		1.125	0	1	0	0	0	1
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF		0.625	0	1	0	0	NR	1
<i>Federal RCRA generators list</i>								
RCRA-LQG		0.375	0	1	0	NR	NR	1
RCRA-SQG		0.375	0	0	0	NR	NR	0
RCRA-CESQG		0.375	0	0	1	NR	NR	1
<i>Federal institutional controls / engineering controls registries</i>								
US ENG CONTROLS		0.625	0	0	0	0	NR	0
US INST CONTROL		0.625	0	1	0	0	NR	1
<i>Federal ERNS list</i>								
ERNS		0.125	0	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS		1.125	0	0	0	0	0	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF		0.625	0	0	0	0	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST		0.625	0	0	1	1	NR	2
INDIAN LUST		0.625	0	0	0	0	NR	0
<i>State and tribal registered storage tank lists</i>								
UST		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	0	1	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	0	0	0
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	1	NR	NR	NR	NR	1
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	0	NR	NR	1
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		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		0.125	0	NR	NR	NR	NR	0
RADINFO		0.125	0	NR	NR	NR	NR	0
FINDS		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	1	NR	NR	NR	NR	1
BEA		0.500	0	3	0	NR	NR	3
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	0.375	0	0	0	NR	NR	0
EDR Historical Cleaners	0.375	0	0	0	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1
ENE
< 1/8
0.017 mi.
89 ft.

GM PONTIAC CORPORATION
2000 CENTERPOINT PKWY
PONTIAC, MI 48341

LIENS **S107700161**
AIRS **N/A**

Relative:
Lower

LIENS:

Facility Township: Not reported
Lot Number: Not reported
Section: 3 & 4
Township: T2N
Range: R10E
Tax Code: 19-03-101-003
Other Description: Assessor Plat 98, 110

Actual:
928 ft.

AIRS:

State Registration Number: N1294
Naics Code: Not reported
Contact Name: WILLIAM MCFARLAND
Contact Phone: (248) 753-5816
Contact Address: GM PONTIAC CORPORATION
Contact Address 2: 2000 CENTERPOINT, 483 520 190
Contact City,St,Zip: PONTIAC, MI 48341
Permit Number: 61-06A
Date Received: 07/26/07
State Registration Number: N1294
Country: Not reported
Application Reason: DISCONNECT THE OXIDIZER FROM THE MPVE SYSTEM
Record Type: Not reported
State County FIPS: Not reported
Facility Category: Not reported
SIC Primary: Not reported
Tribal Code: Not reported
EI Year: Not reported

2
East
1/8-1/4
0.158 mi.
833 ft.

MOTOWN MOTION PICTURES LLC
1999 CENTERPOINT PARKWAY
PONTIAC, MI 48341

BEA **S109569569**
N/A

Relative:
Lower

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

Actual:
920 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

A3
NNW
1/8-1/4
0.173 mi.
913 ft.

GMC TRUCK & COACH DIV PONTIAC EAST
660 S BLVD E
PONTIAC, MI 48053
Site 1 of 2 in cluster A

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

Relative:
Higher

Actual:
931 ft.

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Owner/Op start date: 02/25/2002
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

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

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

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

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

Historical Generators:

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

Date form received by agency: 03/01/2006

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Amount (Lbs): 1763097.8

Waste code: D002

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

Amount (Lbs): 390

Waste code: D008

Waste name: LEAD

Amount (Lbs): 4880.6

Waste code: D018

Waste name: BENZENE

Amount (Lbs): 3511

Waste code: D035

Waste name: METHYL ETHYL KETONE

Amount (Lbs): 900

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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:	Migration of Contaminated Groundwater under Control, Yes, Migration of Contaminated Groundwater Under Control has been verified. Based on a review of information contained in the EI determination, it has been determined that migration of contaminated groundwater is under control at the facility. Specifically, this determination indicates that the migration of contaminated groundwater is under control, and that monitoring will be conducted to confirm that contaminated groundwater remains within the existing area of contaminated groundwater. This determination will be re-evaluated when the Agency becomes aware of significant changes at the facility.
Event date:	07/20/2001
Event:	CA005EE
Event date:	12/19/2002
Event:	RFI Approved
Event date:	10/12/2006
Event:	Petition For No Further Action Receipt Date

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Event date: 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/Sl/Container
Date violation determined: 03/20/2001
Date achieved compliance: Not reported
Violation lead agency: EPA
Enforcement action: Not reported
Enforcement action date: Not reported
Enf. disposition status: Not reported
Enf. disp. status date: Not reported
Enforcement lead agency: Not reported
Proposed penalty amount: Not reported
Final penalty amount: Not reported
Paid penalty amount: Not reported

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

Regulation violated: Not reported
Area of violation: LDR - General
Date violation determined: 04/23/1996
Date achieved compliance: 04/22/1997
Violation lead agency: State

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enforcement 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enforcement 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enf. 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

Enf. disp. status date: Not reported
Enforcement lead agency: 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Regulation violated: Not reported
Area of violation: 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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Regulation violated: Not reported
Area of violation: TSD - General
Date violation determined: 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
Date achieved compliance: 04/22/1997
Evaluation lead agency: State

Evaluation date: 04/16/1996
Evaluation: COMPLIANCE EVALUATION INSPECTION ON-SITE

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Database(s)

EDR ID Number
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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

Map ID
Direction
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Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
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MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: Not reported

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MAP FINDINGS

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

Map ID
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MAP FINDINGS

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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 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

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

US INST CONTROL:

EPA ID: MID005356902
Site ID: Not reported
Name: GENERAL MOTORS CORPORATION
Action Name: Not reported
Address: 2100 S OPDYKE RD

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Database(s)

EDR ID Number
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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

PONTIAC, MI 48341
EPA Region: 5
County: OAKLAND
Event Code: CA772PR
Inst. Control: Not reported
Actual Date: 04/11/07
Comple. Date: Not reported
Operable Unit: Not reported
Contaminated Media : Not reported

FINDS:

Registry ID: 110000404795

Environmental Interest/Information System

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

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

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

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

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

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

Document ID: 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
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

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GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
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

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Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GMC TRUCK & COACH DIV PONTIAC EAST (Continued)

1000881766

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
TSD 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

**A4
NNW
1/8-1/4
0.189 mi.
999 ft.**

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

**BEA S108895983
N/A**

Site 2 of 2 in cluster A

**Relative:
Equal**

BEA:

**Actual:
929 ft.**

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SOUTH BOULEVARD COMMERCIAL BUILDING (Continued)

S108895983

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

**B5
NW
1/8-1/4
0.225 mi.
1187 ft.**

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

Site 1 of 2 in cluster B

**BEA S108986833
N/A**

**Relative:
Higher**

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

**Actual:
930 ft.**

**6
NE
1/8-1/4
0.233 mi.
1228 ft.**

**SWINTERS SVC CTR
807 SOUTH BLVD
PONTIAC, MI 48341**

**RCRA-NonGen 1000827831
FINDS MID985645639**

**Relative:
Lower**

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

**Actual:
921 ft.**

Owner/Operator Summary:

Owner/operator name: NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SWINTERS SVC CTR (Continued)

1000827831

Owner/Operator Type: Owner
Owner/Op start date: 01/01/2002
Owner/Op end date: Not reported

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

Handler Activities Summary:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SWINTERS SVC CTR (Continued)

1000827831

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

Historical Generators:

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

Violation Status: No violations found

FINDS:

Registry ID: 110003672963

Environmental Interest/Information System

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

**B7
NW
1/8-1/4
0.245 mi.
1296 ft.**

**CITY OF PONTIAC
650 PLAINFIELD
PONTIAC, MI 48341**

Site 2 of 2 in cluster B

**UST U003320062
N/A**

**Relative:
Equal**

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
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

**Actual:
929 ft.**

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF PONTIAC (Continued)

U003320062

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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF PONTIAC (Continued)

U003320062

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

C8
West
1/4-1/2
0.261 mi.
1379 ft.

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

LUST **S105213634**
N/A

Site 1 of 2 in cluster C

Relative:
Higher

LUST:

Actual:
939 ft.

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

Leak Number: C-1245-91

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING (Continued)

S105213634

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

C9
West
1/4-1/2
0.261 mi.
1379 ft.

GM - PONTIAC CENTERPOINT CAMPUS - WEST ENGINEERING
660 S BOULEVARD EAST
PONTIAC, MI 48341
Site 2 of 2 in cluster C

UST U003833752
N/A

Relative:
Higher

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

Actual:
939 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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 Interior
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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 Interior
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 Interior
Impressed Device: No

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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 Interior
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

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 Release 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

**10
SE
1/4-1/2
0.369 mi.
1951 ft.**

**IRVIN AUTOMOTIVE PRODUCTS
2600 CENTERPOINT PARKWAY
PONTIAC, MI 48341**

**RCRA-CESQG 1007370890
MANIFEST MIK278245733**

**Relative:
Lower**

RCRA-CESQG:

Date form received by agency: 05/18/2004

Facility name: IRVIN AUTOMOTIVE PRODUCTS

Facility address: 2600 CENTERPOINT PARKWAY
PONTIAC, MI 48341

EPA ID: MIK278245733

Contact: GARY VITALE

Contact address: 2600 CENTERPOINT PARKWAY
PONTIAC, MI 48341

Contact country: Not reported

Contact telephone: (248) 451-4180

Contact email: Not reported

EPA Region: 05

Classification: Conditionally Exempt Small Quantity Generator

Description: Handler: generates 100 kg or less of hazardous waste per calendar month, and accumulates 1000 kg or less of hazardous waste at any time; or generates 1 kg or less of acutely hazardous waste per calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates at any time: 1 kg or less of acutely hazardous waste; or 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste

Owner/Operator Summary:

Owner/operator name: JACK FEDORCHAK

Owner/operator address: Not reported

Owner/operator country: Not reported

Owner/operator telephone: Not reported

Legal status: Private

Owner/Operator Type: Owner

Owner/Op start date: 10/01/2003

Owner/Op end date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

Owner/operator name: JACK FEDORCHAK
Owner/operator address: Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: 10/01/2003
Owner/Op end date: Not reported

Handler Activities Summary:

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

Universal Waste Summary:

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

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

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

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

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

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

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

Violation Status: No violations found

WI MANIFEST:

Year: 05
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: 0
Contact Telephone: 0
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 06
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -
Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 07
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

Contact Telephone: 0
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported
TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -
Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

Year: 04
EPA ID: MIK278245733
FID: 0
ACT Code: 203
ACT Status: A
ACT Code 1: 203
ACT Name: HW Generator - Very Small
Contact First Name: Not reported
Contact Last Name: Not reported
Contact Title: Not reported
Contact Address: Not reported
Contact State: Not reported
Contact City: Not reported
Contact Zip: Not reported
Contact Telephone: Not reported
Contact Extention: Not reported
Contact Email Address: Not reported
WI MANIFEST SHIP: -
Manifest DOC ID: Not reported
Copy Type: Not reported
Gen EPA ID: Not reported
Gen Date: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

IRVIN AUTOMOTIVE PRODUCTS (Continued)

1007370890

TSD Date: Not reported
TSD EPA ID: Not reported
GEN Copy Revd Date: Not reported
TSG Copy Revd Date: Not reported
Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

WI MANIFEST TRANS: -

Mifest DOC ID: Not reported
TRAN EPA ID: Not reported
TRAN ORDER NO: Not reported
TRAN Date: Not reported

Manifest DOC ID: Not reported
Waste Page No: Not reported
Waste Line No: Not reported
Waste Code: Not reported
Waste Amount: Not reported
Unit of Measure: Not reported
Waste LBS: Not reported

D11
WNW
1/2-1
0.620 mi.
3274 ft.

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

HIST LF S102519183
N/A

Site 1 of 2 in cluster D

Relative:
Higher

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

Actual:
951 ft.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANKERSON RESOURCE SYSTEMS INC (Continued)

S102519183

Operator City,St,Zip: Not reported
Operator Telephone: Not reported
Operator Fax: Not reported
Operator Email: Not reported
Owner Name: ANKERSON RESOURCE SYSTEMS INC.
Owner Contact: Not reported
Attention: B RICHARD ANKERSON
Owner Address: 400 SOUTH BLVD EAST
Owner City,St,Zip: PONTIAC, MI 00000
Owner Telephone: Not reported
Owner Fax: Not reported
Owner Email: Not reported
District: S.E. Michigan
Section: 04
Permit Applicant: ANKERSON RESOURCE SYSTEMS INC
Permit Applicant Contact: B RICHARD ANKERSON
Permit Applicant Address: 400 SOUTH BLVD EAST
Permit Applicant City,St,Zip: PONTIAC, MI 48054
Permit Applicant Phone: Not reported
Application Type: Private
Liner Information: Not reported
Nature of Wastes Allowed: Not reported
Township: Not reported
Section Number: Not reported
Township Section: Not reported
District: Not reported
Business Type: Not reported
County Description: Not reported
County 2 Description: Not reported
Liner Type: Not reported
Reported Date: Not reported
Amount: 0.00
Financial Instrument: Not reported
Fund Type: Not reported
Issued Date: Not reported
Expires: Not reported
Expiry: Not reported
Licensed: Not reported
Comments: Not reported
Date of Expiry of Current License: Not reported
Acreage Currently Licensed: 0.000
Acres Certified Closed: 0.000
Issue of 1st Construction Permit Date: Not reported
Acres Given in 1st Construction Permit: 0.000
Issue of 2nd Construction Permit Date: Not reported
Acres Given in 2nd Construction Permit: 0.000
Issue of 3rd Construction Permit Date: Not reported
Acres Given in 3rd Construction Permit: 0.000
Restrictive Deed Covenant Filed: Not reported
Perpetual Care Fund Type: Not reported
Perpetual Care Fund Signed: Not reported
Perpetual Care Fund Agreement Signed: Not reported
Groundwater Monitoring System Exists: Not reported
Date landfill Certified Closed: Not reported
Received Waste on or After Oct. 9, 1991: Not reported
Site Monitorable Under Definition of New Rules: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

D12
WNW
1/2-1
0.620 mi.
3274 ft.
GAUKLER STORAGE CO
400 SOUTH BLVD E
PONTIAC, MI 48341
Site 2 of 2 in cluster D

LUST
UST
U003323147
N/A

Relative:
Higher

LUST:

Facility ID: 00014737
Source: STATE OF MICHIGAN
Owner Name: Gaukler Storage Co
Owner Address: 400 South Blvd E
Owner City,St,Zip: Pontiac, MI 48341-2962
Owner Contact: Not reported
Owner Phone: (248) 858-8000
Country: USA
District: SE Michigan District Office
Site Name: Gaukler Storage Co
Latitude: 42.6193210000
Longitude: -83.2753260000
Date of Collection: 01-11-2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Leak Number: C-0545-99
Release Date: Jun 9 1999
Substance Released: Unknown
Release Status: Closed
Release Closed Date: Sep 27 1999

UST:

Facility ID: 00014737
Facility Type: CLOSED
Latitude: 42.6193210000
Longitude: -83.2753260000
Owner Name: Gaukler Storage Co
Owner Address: 400 South Blvd E
Owner City,St,Zip: Pontiac, MI 48341-2962
Owner Country: USA
Owner Contact: Not reported
Owner Phone: (248) 858-8000
Contact: GENE STANLEY
Contact Phone: (248) 858-8000
Date of Collection: 01-11-2001
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Datum: NAD83
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number

Tank ID: 3
Tank Status: **Removed from Ground**
Capacity: 5000
Install Date: Mar 6 1980
Product: Gasoline

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GAUKLER STORAGE CO (Continued)

U003323147

Remove Date: Jun 9 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Tank ID: 2
Tank Status: Removed from Ground
Capacity: 5000
Install Date: Mar 6 1980
Product: Gasoline
Remove Date: Jun 9 1999
Tank Release Detection: Not reported
Pipe Realease Detection: Not reported
Piping Material: Galvanized Steel
Piping Type: Not reported
Constr Material: Asphalt Coated or Bare Steel,Lined Interior
Impressed Device: No

Tank ID: 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 Interior
Impressed Device: No

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
AUBURN HILLS	S103594529	ADAMS AND AUBURN RD DEVELOPMENT	3995 AUBURN RD	48326	SHWS
BLOOMFIELD HILLS	S103594527	SHELL DRY WELL 1 TELEGRAPH	1415TH TELEGRAPH & GOLF	48302	SHWS
BLOOMFIELD HILLS	S105966539	UAG MICHIGAN H1, LLC	1819 AND 1825 SOUTH TELEGRAPH	48302	BEA
BLOOMFIELD TWP	S104872786	WOODWARD AVE & SQUARE LAKE ROAD	2510 STATE HIGHWAY 1	48304	LUST
OAKLAND COUNTY	M300004243	AMERICAN AGGREGATES OF MICHIGAN, I	HIGHLAND PLANT		MINES
PONTIAC	S109171488	SOUTH SAGINAW STREET PARCELS	193 AND 197 SOUTH SAGINAW ST	48342	BEA
PONTIAC	1003834459	GM TRUCK AND BUS PONTIAC CENTRAL	660 S BLVD E		SHWS
PONTIAC	1001207814		660 SOUTH BLVD		MLTS
PONTIAC	1003871920		871 SOUTH BLVD		CERC-NFRAP
PONTIAC	S108414584	UNIT 52 CENTERPOINT BUSINESS CAMPU	CENTERPOINT BUSINESS CAMPUS		BEA
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	S105144543	ASPHALT SPECIALIST INC	1908 WIDE TRACK DR W	48342	SHWS, DEL SHWS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 10/01/2009	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/25/2010
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 10/01/2009	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/25/2010
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/17/2009
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/16/2009
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

DELISTED NPL: National Priority List Deletions

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

Date of Government Version: 10/01/2009	Source: EPA
Date Data Arrived at EDR: 10/14/2009	Telephone: N/A
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/13/2009
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/25/2010
	Data Release Frequency: Quarterly

Federal CERCLIS list

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

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

Date of Government Version: 06/30/2009	Source: EPA
Date Data Arrived at EDR: 08/11/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/28/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 04/12/2010
	Data Release Frequency: Quarterly

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 10/03/2008	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/10/2009	Telephone: 703-603-8704
Date Made Active in Reports: 09/29/2009	Last EDR Contact: 10/16/2009
Number of Days to Update: 81	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	Source: EPA
Date Data Arrived at EDR: 09/02/2009	Telephone: 703-412-9810
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 19	Next Scheduled EDR Contact: 03/15/2010
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 09/15/2009	Source: EPA
Date Data Arrived at EDR: 09/22/2009	Telephone: 800-424-9346
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 11/16/2009
Number of Days to Update: 48	Next Scheduled EDR Contact: 03/01/2010
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Federal institutional controls / engineering controls registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/09/2009	Telephone: 703-603-0695
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 31	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	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 09/17/2009	Telephone: 202-267-2180
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 10/06/2009
Number of Days to Update: 53	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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/03/2009	Telephone: 517-373-9541
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 11/03/2009
Number of Days to Update: 14	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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/08/2009	Telephone: 517-335-4035
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 01/05/2010
Number of Days to Update: 40	Next Scheduled EDR Contact: 04/19/2010
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/24/2009	Telephone: 517-373-9837
Date Made Active in Reports: 12/31/2009	Last EDR Contact: 11/24/2009
Number of Days to Update: 37	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	Source: EPA Region 8
Date Data Arrived at EDR: 12/01/2009	Telephone: 303-312-6271
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 10/30/2009
Number of Days to Update: 15	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Iowa, Kansas, and Nebraska

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

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

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

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

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

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

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

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 Listing

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, Detroit Edison, Detroit Area Commercial Board of Realtors

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/04/2009	Telephone: 202-566-2777
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 01/05/2010
Number of Days to Update: 42	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	Source: EPA, Region 9
Date Data Arrived at EDR: 05/07/2009	Telephone: 415-972-3336
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/18/2009
Number of Days to Update: 137	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

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

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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 12/03/2007	Telephone: 703-308-8245
Date Made Active in Reports: 01/24/2008	Last EDR Contact: 11/09/2009
Number of Days to Update: 52	Next Scheduled EDR Contact: 02/22/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 06/22/2009	Telephone: 202-307-1000
Date Made Active in Reports: 09/21/2009	Last EDR Contact: 12/14/2009
Number of Days to Update: 91	Next Scheduled EDR Contact: 03/22/2010
	Data Release Frequency: Quarterly

DEL SHWS: Delisted List of Contaminated Sites

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

Date of Government Version: 11/04/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 11/04/2009	Telephone: 517-373-9541
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 13	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	Source: Department of Community Health
Date Data Arrived at EDR: 11/18/2008	Telephone: 517-373-3740
Date Made Active in Reports: 11/21/2008	Last EDR Contact: 11/02/2009
Number of Days to Update: 3	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	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 11/19/2008	Telephone: 202-307-1000
Date Made Active in Reports: 03/30/2009	Last EDR Contact: 03/23/2009
Number of Days to Update: 131	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/05/2009	Telephone: 202-564-6023
Date Made Active in Reports: 12/16/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: Department of the Navy
Date Data Arrived at EDR: 12/11/2006	Telephone: 843-820-7326
Date Made Active in Reports: 01/11/2007	Last EDR Contact: 11/20/2009
Number of Days to Update: 31	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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 10/29/2009	Telephone: 517-373-9837
Date Made Active in Reports: 11/17/2009	Last EDR Contact: 10/27/2009
Number of Days to Update: 19	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	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 10/05/2009	Telephone: 202-366-4555
Date Made Active in Reports: 11/09/2009	Last EDR Contact: 10/05/2009
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/11/2010
	Data Release Frequency: Annually

PEAS: Pollution Emergency Alerting System

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

Date of Government Version: 09/21/2009	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/22/2009	Telephone: 517-373-8427
Date Made Active in Reports: 10/05/2009	Last EDR Contact: 12/28/2009
Number of Days to Update: 13	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/18/2008	Telephone: 312-886-6186
Date Made Active in Reports: 03/16/2009	Last EDR Contact: 12/17/2009
Number of Days to Update: 118	Next Scheduled EDR Contact: 01/18/2010
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOT OPS: Incident and Accident Data

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

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

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

DOD: Department of Defense Sites

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

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

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

FUDS: Formerly Used Defense Sites

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

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

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RADINFO: Radiation Information Database

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

Date of Government Version: 10/15/2009	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/16/2009	Telephone: 202-343-9775
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 10/16/2009
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/25/2010
	Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 10/19/2009	Source: EPA
Date Data Arrived at EDR: 10/22/2009	Telephone: (312) 353-2000
Date Made Active in Reports: 12/01/2009	Last EDR Contact: 12/10/2009
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/29/2010
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

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

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	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	Source: EPA/NTIS
Date Data Arrived at EDR: 02/19/2009	Telephone: 800-424-9346
Date Made Active in Reports: 05/22/2009	Last EDR Contact: 11/20/2009
Number of Days to Update: 92	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	Source: Department of Environmental Quality
Date Data Arrived at EDR: 09/10/2009	Telephone: 517-241-1515
Date Made Active in Reports: 10/05/2009	Last EDR Contact: 11/02/2009
Number of Days to Update: 25	Next Scheduled EDR Contact: 02/15/2010
	Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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 CENTRAL
200 SOUTH BOULEVARD EAST
PONTIAC, MI 48341

TARGET PROPERTY COORDINATES

Latitude (North):	42.61730 - 42° 37' 2.3"
Longitude (West):	83.2607 - 83° 15' 38.5"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	314585.3
UTM Y (Meters):	4720581.0
Elevation:	929 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).

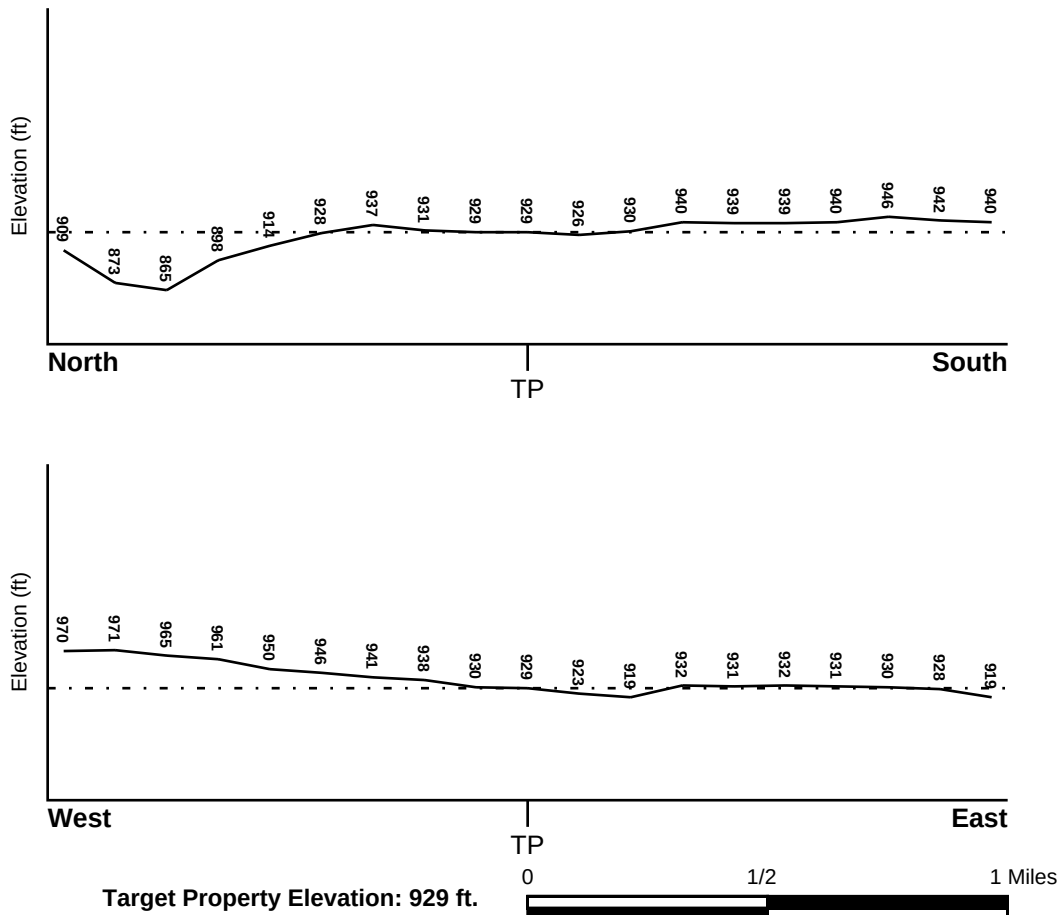
TOPOGRAPHIC INFORMATION

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



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

Target Property County
OAKLAND, MI

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

Flood Plain Panel at Target Property: 2601770010B

Additional Panels in search area: 2602630015B
2601690005B
2601690004C

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
PONTIAC SOUTH

NWI Electronic
Data Coverage
Not Available

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
33	1/2 - 1 Mile NE	N

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

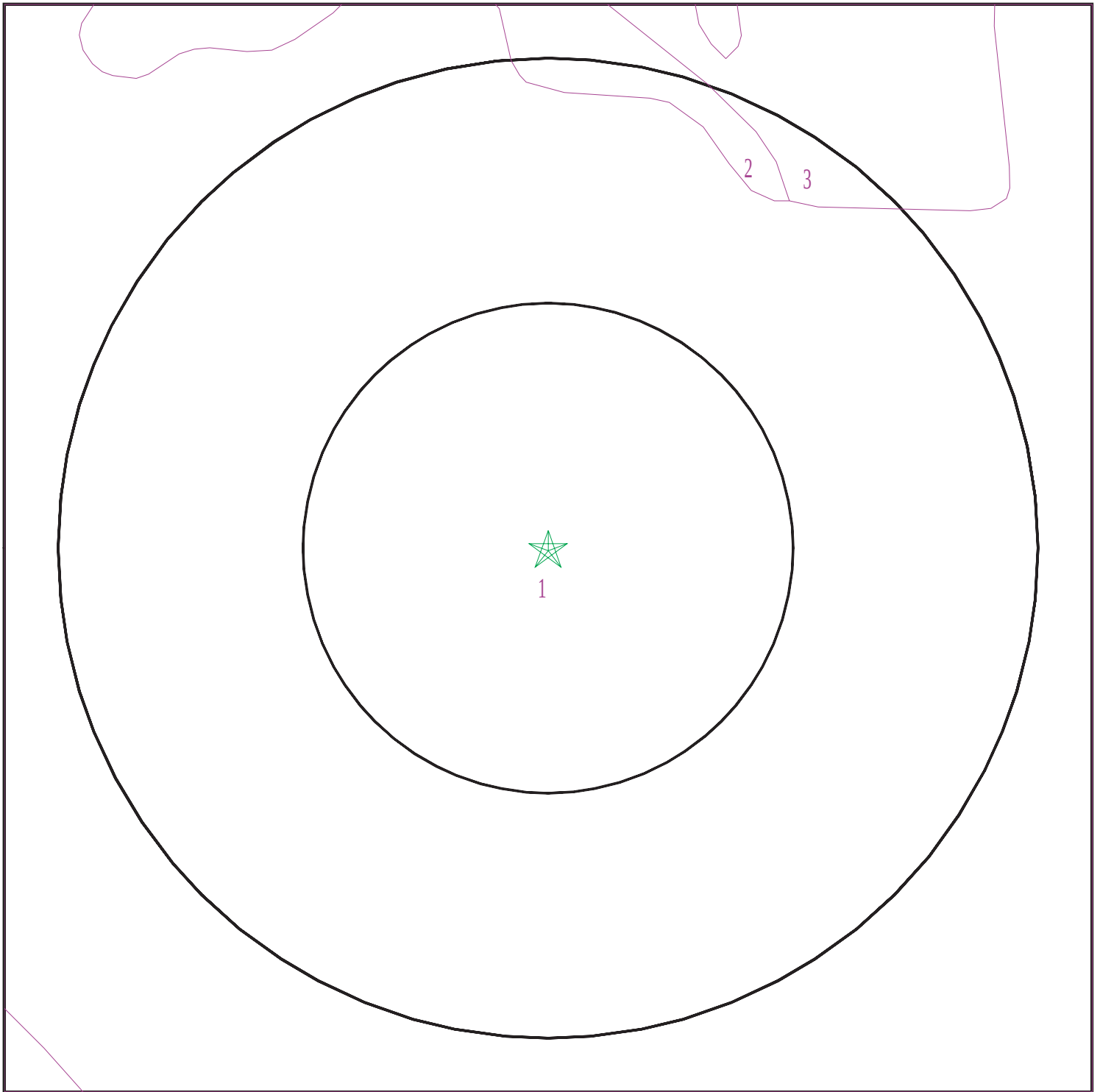
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 2672058.2s



- ★ Target Property
- SSURGO Soil
- Water



SITE NAME: PCC Central
ADDRESS: 200 South Boulevard East
Pontiac MI 48341
LAT/LONG: 42.6173 / 83.2607

CLIENT: ARCADIS U.S., Inc.
CONTACT: Moriah Bloom
INQUIRY #: 2672058.2s
DATE: January 06, 2010 11:01 am

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: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

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

Soil Surface Texture: sandy loam

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

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
2	7 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4
3	31 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

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

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

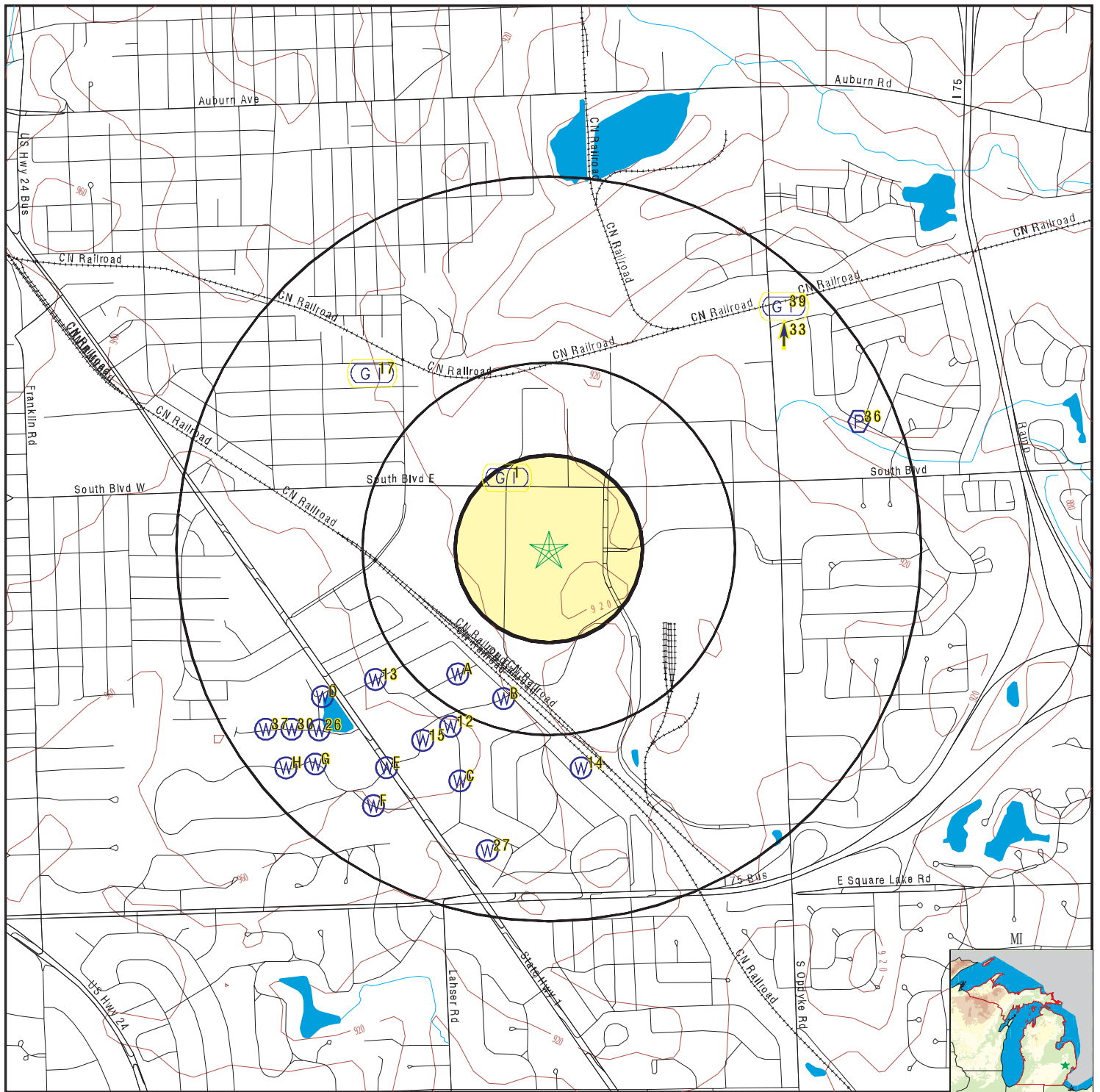
MAP ID	WELL ID	LOCATION FROM TP
36	MI0000310	1/2 - 1 Mile ENE

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 SW
A3	MI20244851	1/4 - 1/2 Mile SW
A4	MI20244849	1/4 - 1/2 Mile SW
A5	MI20244858	1/4 - 1/2 Mile SW
B6	MI20244856	1/4 - 1/2 Mile SSW
B7	MI20244845	1/4 - 1/2 Mile SSW
B8	MI20244857	1/4 - 1/2 Mile SSW
A9	MI20244848	1/4 - 1/2 Mile SW
A10	MI20244847	1/4 - 1/2 Mile SW
A11	MI20244846	1/4 - 1/2 Mile SW
12	MI20244852	1/2 - 1 Mile SSW
13	MI20244861	1/2 - 1 Mile SW
14	MI20244859	1/2 - 1 Mile South
15	MI20261704	1/2 - 1 Mile SSW
C16	MI20244853	1/2 - 1 Mile SSW
C18	MI20244854	1/2 - 1 Mile SSW
C19	MI20241192	1/2 - 1 Mile SSW
C20	MI20244855	1/2 - 1 Mile SSW
D21	MI20244879	1/2 - 1 Mile WSW
D22	MI20244880	1/2 - 1 Mile WSW
E23	MI20244884	1/2 - 1 Mile SW
E24	MI20244883	1/2 - 1 Mile SW
D25	MI20260415	1/2 - 1 Mile SW
26	MI20244881	1/2 - 1 Mile SW
27	MI20244860	1/2 - 1 Mile SSW
F28	MI20260650	1/2 - 1 Mile SSW
F29	MI20244863	1/2 - 1 Mile SW
30	MI20244882	1/2 - 1 Mile SW
G31	MI20244864	1/2 - 1 Mile SW
G32	MI20244862	1/2 - 1 Mile SW
G34	MI20244865	1/2 - 1 Mile SW
G35	MI20244866	1/2 - 1 Mile SW
37	MI20261282	1/2 - 1 Mile WSW
H38	MI20244867	1/2 - 1 Mile SW
H40	MI20244868	1/2 - 1 Mile SW
H41	MI20244869	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 2672058.2s



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

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

SITE NAME: PCC Central
 ADDRESS: 200 South Boulevard East
 Pontiac MI 48341
 LAT/LONG: 42.6173 / 83.2607

CLIENT: ARCADIS U.S., Inc.
 CONTACT: Moriah Bloom
 INQUIRY #: 2672058.2s
 DATE: January 06, 2010 11:01 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

A2
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	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
SW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	80		
Horiz Conduct:	50.00008		
Vert Conduct:	.00013		
T2:	4000.006		
D50plek:	518.45259		

**A4
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

A5
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	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		

B6
SSW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

B7
SSW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

B8

SSW

**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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	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		

**A9
SW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	39		
Horiz Conduct:	11.53923		
Vert Conduct:	.0013		
T2:	450.03		
D50plek:	31.89453		

**A10
SW
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 CREATIONS		
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

A11

SW

**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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

12
SSW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	159		
Horiz Conduct:	6.60464		
Vert Conduct:	.00115		
T2:	1050.138		
D50plek:	289.75676		

**13
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244861

Wellid:	63000003885	Import id:	63028004001
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ALVIN E TAYLOR		
Well addr:	135 BLOOMFIELD BD		
Well depth:	125		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1968-07-08 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	120		
Screen frm:	120		
Screen to:	125		
Swl:	100		
Test depth:	121		
Test hours:	2.5		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.61221715		
Longitude:	-83.26982473		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	10
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	34
Pct aq d:	34	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	1

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

14

South
1/2 - 1 Mile
Higher

MI WELLS

MI20244859

Wellid:	63000003883	Import id:	63028003301
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	3
Owner name:	SOUTH BLOOMFIELD HIGHLANDS		
Well addr:	SOUTH BLOOMFIELD HIGHLANDS #1		
Well depth:	127		
Well type:	Type I public		
Wssn:	6080		
Well num:	1	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	8		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	125
Latitude:	42.608778		
Longitude:	-83.258992		
Methd coll:	GPS Code Meas. Std. Positioning Svc. SA Off		
Elevation:	934		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	932	Elev dif:	2
Elev miv:	934	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	67
Pct cm d:	67	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	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		

15
SSW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	80		
Horiz Conduct:	75.00008		
Vert Conduct:	.00013		
T2:	6000.006		
D50plek:	762.33555		

C16
SSW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

C18
SSW
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 d:	10	Pct aq:	10
Pct maq:	0	Pct aq r:	0
Pct maq r:	0	Pct maq d:	0
Pct cm d:	76	Pct cm:	76
Pct pcm:	14	Pct cm r:	0
Pct pcm r:	0	Pct pcm d:	14
Pct na d:	0	Pct na:	0
Pct flag:	Not Reported	Pct na r:	0
D r type:	Not Reported	Rock top:	-1
A thicknes:	0	Spc cpcity:	0
A pct maq:	0	A pct aq:	0
A pct cm:	0	A pct pcm:	0
A thickns2:	0	A pct na:	0
A pct maq2:	0	A pct aq2:	0
A pct cm2:	0	A pct pcm2:	0
A hit swl:	F	A pct na2:	0
A hit rock:	F	A hit top:	T
A sc lmod1:	Not Reported	A sc lith1:	Not Reported
A sc lpct1:	0	A sc lmaq1:	Not Reported
A sc lmod2:	Not Reported	A sc lith2:	Not Reported
A sc lpct2:	0	A sc lmaq2:	Not Reported
Pct maq 1:	0	Pct aq 1:	0
Pct pcm 1:	0	Pct cm 1:	100
		Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

C19
SSW
1/2 - 1 Mile
Higher

MI WELLS MI20241192

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	170		
Screen frm:	0		
Screen to:	0		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60819945		
Longitude:	-83.26536963		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	961	Elev dif:	13
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	21
Pct aq d:	21	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	21
Pct cm d:	21	Pct cm r:	0
Pct pcm:	18	Pct pcm d:	18
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	75	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	25	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	100
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	35
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	48	Pct pcm 6:	52
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	32
Pct pcm 7:	68	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

C20
SSW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

D21
WSW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

D22
WSW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

**E23
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

E24
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

**D25
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	78		
Screen frm:	78		
Screen to:	88		
Swl:	17		
Test depth:	25		
Test hours:	1		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.61124372		
Longitude:	-83.2729562		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	964
Elev miv:	964	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	28
Pct aq d:	28	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	66
Pct cm d:	66	Pct cm r:	0
Pct pcm:	6	Pct pcm d:	6
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	28	A pct aq:	82
A pct maq:	0	A pct pcm:	18
A pct cm:	0	A pct na:	0
A thickns2:	71	A pct aq2:	35
A pct maq2:	0	A pct pcm2:	7
A pct cm2:	58	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	10
Pct maq 3:	0	Pct cm 3:	90
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	75	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	25
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

26
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	53	Pct pcm d:	53
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	11	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	86	A pct aq2:	59
A pct maq2:	0	A pct pcm2:	41
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel & Sand
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	35
Pct na 2:	65	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	35
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	65	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	32
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	68	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	86		
Horiz Conduct:	29.65523		
Vert Conduct:	.02456		
T2:	2550.35		
D50plek:	363.47024		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

27

SSW

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	85	Pct pcm 4:	15
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	40	Pct cm 7:	60
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	13	Pct maq 8:	6
Pct cm 8:	31	Pct pcm 8:	50
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	159		
Horiz Conduct:	9.45279		
Vert Conduct:	.00065		
T2:	1502.9937		
D50plek:	406.95241		

F28
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	119		
Screen frm:	120		
Screen to:	128		
Swl:	70		
Test depth:	115		
Test hours:	2		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	42.60711396		
Longitude:	-83.26938223		
Methd coll:	Address Matching-House Number		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	41
Pct aq d:	41	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	59
Pct cm d:	59	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	35	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	58	A pct aq2:	60
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	40	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	25
Pct maq 1:	0	Pct cm 1:	75
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	65	Pct maq 2:	0
Pct cm 2:	35	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	35
Pct maq 5:	0	Pct cm 5:	65
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

**F29
SW
1/2 - 1 Mile
Higher**

MI WELLS MI20244863

Wellid:	63000003887	Import id:	63028004003
County:	Oakland	Township:	Bloomfield
Town range:	02N 10E	Section:	4
Owner name:	ROBERT & JULIE THOMPSON		
Well addr:	71 S BERKSHIRE		
Well depth:	141		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	140
Const date:	1996-07-15 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	133		
Screen frm:	133		
Screen to:	141		
Swl:	76		
Test depth:	90		
Test hours:	1		
Test rate:	40	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.60750605		
Longitude:	-83.27046593		
Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	10
Elev miv:	948	Aq code:	Drift Well
Aq flag:	Not Reported	Pct aq:	33
Pct aq d:	33	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	36

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	36	Pct cm r:	0
Pct pcm:	31	Pct pcm d:	31
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	39	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	65	A pct aq2:	60
A pct maq2:	0	A pct pcm2:	6
A pct cm2:	34	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	35	Pct maq 2:	0
Pct cm 2:	45	Pct pcm 2:	20
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	92	Pct maq 6:	0
Pct cm 6:	8	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	65		
Horiz Conduct:	60.00065		
Vert Conduct:	.00029		
T2:	3900.0422		
D50plek:	411.2321		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

30
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	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		

**G31
SW
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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

G32
SW
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	21	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

33
NE
1/2 - 1 Mile
Lower

Site ID: 635122
Groundwater Flow: N
Shallowest Water Table Depth: Not Reported
Deepest Water Table Depth: Not Reported
Average Water Table Depth: 3.43
Date: 10/01/1996

AQUIFLOW 39525

G34
SW
1/2 - 1 Mile
Higher

MI WELLS MI20244865

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

G35
SW
1/2 - 1 Mile
Higher

MI WELLS MI20244866

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

36
ENE
1/2 - 1 Mile
Lower

FRDS PWS MI0000310

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

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

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

Violations information not reported.

37
WSW
1/2 - 1 Mile
Higher

MI WELLS MI20261282

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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 thickness:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	39		
Horiz Conduct:	53.8462		
Vert Conduct:	.00022		
T2:	2100.0018		
D50plek:	137.07564		

H38 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		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Address Matching-House Number		
Elevation:	948		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

**H40
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

H41
SW
1/2 - 1 Mile
Higher

MI WELLS MI20244869

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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 thickness:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

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

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

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

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

STREET AND ADDRESS INFORMATION

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APPENDIX D

Photograph Log

**Phase I Environmental Site Assessment
2000 Centerpoint Parkway, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 1	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: Hydraulic lifts on the North Dock	

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 2	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: Floor staining on North Dock	

**Phase I Environmental Site Assessment
2000 Centerpoint Parkway, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 3	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: 116-gallon diesel tank in Boiler Room	

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 4	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: 55-gallon drums in Boiler Room	

**Phase I Environmental Site Assessment
2000 Centerpoint Parkway, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 5	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: Carbon Dioxide cylinders located near the South Dock	

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 6	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION: Northeast	
COMMENT: Outside of Pontiac Centerpoint Campus – Central facing	

**Phase I Environmental Site Assessment
2000 Centerpoint Parkway, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 7	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION: Southwest	
COMMENT: Outside of Pontiac Centerpoint Campus - Central	

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 8	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION: South	
COMMENT: Parking area south of Pontiac Centerpoint Campus – Central building	

**Phase I Environmental Site Assessment
2000 Centerpoint Parkway, Pontiac, MI**

Appendix D - Photograph Log

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 9	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION: South	
COMMENT: Inside the Pontiac Centerpoint Campus – Central building	

CLIENT: Motors Liquidation Company	SITE NAME: Pontiac Centerpoint Campus - Central
PROJECT #: BN011531700	SITE LOCATION: 2000 Centerpoint Parkway, Pontiac, MI
PHOTOGRAPH #: 10	
PHOTOGRAPHER: MB	
DATE: 1/13/10	
DIRECTION:	
COMMENT: Former office area	

APPENDIX E

Qualifications of Environmental Professionals

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