

PHASE I

ENVIRONMENTAL SITE ASSESSMENT

for the

Undeveloped 87 Acre Parcel

50500 Eight Mile Road
Novi, Michigan 48167

Prepared For:

City of Novi
Parks, Recreation and Cultural Services Department
Novi, Michigan

Prepared by:



2200 Commonwealth Blvd., Suite 300
Ann Arbor, Michigan 48105

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1.0 SUMMARY

Environmental Consulting & Technology, Inc. (ECT) has performed a Phase I Environmental Site Assessment (ESA) of the undeveloped property located at 50500 Eight Mile Road, Novi, Oakland County, Michigan 48167 (herein referred to as the Subject Property) described below in conformance with the scope and limitations of ASTM Practice E 1527-13.

The Subject Property consists of approximately 87 acres of currently undeveloped land. Historical uses have included soil and topsoil screening, sand and gravel mining, and agricultural activities. The southeastern corner of the Subject Property was historically developed with a single family residence with three outbuildings which have been removed. The north and northwestern areas of the Subject Property are currently wooded. A pond area is located along the eastern side of the Subject Property. The Subject Property is accessed via Eight Mile Road to the south. The property to the north is developed as a single family residential home neighborhood. The acreage to the west is occupied by a City of Novi sports park complex. The acreage to the east is currently undeveloped, and was the former Anderson (Munn) Landfill property. Maybury State Park is located to the south across Eight Mile Road.

During the course of the on-site visual assessment process, ECT personnel observed the presence of multiple PVC pipes extending above the ground surface, indicative of former groundwater and vapor investigation activities. Piping was observed in the south central area, and in both the northeast and southeast areas of the Subject Property. In addition, ECT observed the presence of abandoned contractor materials, including tires, a work trailer, and some metal drums and containers. Direct ground staining was not readily observed. ECT was provided copies of historical Phase I and Phase II investigations completed in 2006 and a copy of an Oil Well Capping correspondence from the Michigan DNR indicating that an oil well abandoned on the Subject Property was properly capped in 2007.

This assessment activity, including information provided in the historical site investigation reports, has revealed the presence of the following Recognized Environmental Conditions (RECs) associated with the Subject Property:

- Methane gas was previously discovered both in the subsurface soils and emanating into the ambient air during the 2006 site investigation activity. The investigation revealed the presence of methane gas at concentrations above levels of concern and additional investigation to determine acute risks was recommended. It appears that the presence of the methane gas was due to the improper abandonment and following former oil well damage as a result of heavy equipment use and the presence of the former drilling mud pit.
- Historical investigations have indicated that areas of unnatural fill, primarily construction debris, were observed on the Subject Property, presumably as

part of the former sand and gravel mining operation. Soil and groundwater testing activity has revealed the presence of elevated metals.

- The Subject Property is located directly west of a former landfill (Anderson-Munn), with records revealing dumping of some chemicals and potentially hazardous materials.
- Miscellaneous dumping of materials, including tires, metals objects and possible abandoned drums were observed along the south side of the Subject Property.
- Historical use in some areas of the Subject Property as an orchard prior to the removal of sand and gravel.

Based on the presence of the RECs, ECT recommends the performance of Phase II assessment activity to include the following:

- Perform methane gas sampling from the existing wells and gas vapor points to verify the presence or absence of methane gas.
- Sample the existing on-site groundwater monitoring wells to verify the presence or absence of elevated contaminants. Perform groundwater evaluations required to confirm the groundwater flow direction, if possible.
- Perform shallow soil sampling in areas of debris dumping to verify the presence or absence of near surface impacts.

2.0 INTRODUCTION

ECT has conducted a Phase I ESA of the Subject Property located at 50500 Eight Mile Road, Novi, Oakland County, Michigan 48167 (herein referred to as the Subject Property) described below in conformance with the scope and limitations of ASTM Practice E 1527-13.

The Subject Property consists of approximately 87 acres of currently undeveloped land. Historic uses have included soil and topsoil screening, sand and gravel mining, and agricultural activities. The southeastern corner of the Subject Property was historically developed with a single family residence with three outbuildings which has been removed. The north and northwestern areas of the Subject Property are currently wooded. A pond area is located along the eastern side of the Subject Property. The Subject Property is accessed via Eight Mile Road to the south. The property to the north is developed as a single family residential home neighborhood. The acreage to the west is occupied by a City of Novi sports park complex. The

acreage to the east is currently undeveloped, and was the former Anderson (Munn) Landfill property. Maybury State Park is located to the south across Eight Mile Road.

The Site Location Map is provided as **Figure 1**.

2.1 Purpose

The City of Novi Parks, Recreation and Cultural Services Department requested that ECT conduct a Phase I ESA of the Subject Property in anticipation of a real estate acquisition. This Phase I ESA includes information gathered from federal, state, and local agencies; personal interviews with people familiar with the Subject Property and surrounding properties; and a site reconnaissance conducted by an ECT representative. The report is intended to meet the due diligence requirements of ASTM E-1527-13.

The purpose of ASTM Practice E 1527-13 is to define good commercial and customary practice in the United States of America for conducting an *environmental site assessment* of *commercial real estate* properties with respect to the range of contaminants within the scope of the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA; 42 U.S.C. §9601) and *petroleum products*. The goal of the processes established by ASTM Practice E 1527-13 is to identify *recognized environmental conditions (RECs)* and *de minimis* conditions. Any exceptions to, or deletions from, this practice are described in Section 11.0 of this report.

The objective of Phase I ESAs is to provide *all appropriate inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined at 42 U.S.C. §9601(35)(B) to permit a *user* to satisfy one of the requirements to qualify for the *innocent landowner*, *contiguous property owner*, or *bona fide prospective purchaser* limitations on CERCLA liability (a.k.a., *landowner liability protections*). The goal of Phase I ESAs is to identify current, historical, and controlled recognized environmental conditions (RECs) and *de minimis* conditions in connection with the property, to the extent feasible pursuant to the processes prescribed in the ASTM E 1527-13 guidelines. The terms current, historical, and controlled RECs and *de minimis* conditions are defined by ASTM in the following paragraphs.

A current REC is the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to any *release* to the *environment*; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. The term includes hazardous substances or petroleum products even under conditions in compliance with laws.

A historical REC is a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *Subject Property* and has been addressed to

the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *Subject Property* to any required controls.

A controlled REC is a *REC* resulting from a past *release of hazardous substances or petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances or petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions, activity and use limitations, institutional controls, or engineering controls*).

A *de minimis* condition is a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not current, historical, or controlled *RECs*.

2.2 Detailed Scope of Services

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

- A site reconnaissance of the Subject Property to look for evidence of the release(s) of hazardous materials and petroleum products and to assess the potential for onsite releases of hazardous materials and petroleum products;
- Drive-by observations of adjoining properties and the site vicinity;
- Interviews with people familiar with the Subject Property, as available;
- Review of regulatory agency file information;
- Review of historical documents, as available; and
- Preparation of a report presenting the Phase I ESA findings including a summary of conclusions and recommendations.

2.3 Significant Assumptions

ECT assumes that the information provided by the City of Novi representatives, the representatives of Servetus Opportunities, LLC (current property owner), regulatory database electronic search report provider, and the regulatory agencies is true and reliable.

2.4 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, the schedule as agreed upon by ECT, and the 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. No representation, warranty, or guarantee, expressed or implied, is intended or given. To the extent that ECT relied upon any information prepared by other parties not under contract to ECT, ECT makes no representation as to the accuracy or completeness of such information. This report is expressly for the sole and exclusive use of the party for whom this report was originally prepared for a particular purpose. Only the party for whom this report was originally prepared and/or other specifically named parties have the right to make use of and rely upon this report. Reuse of this report or any portion thereof for other than its intended purpose, or if modified, or if used by third parties, shall be at the user's sole risk.

The findings presented in this report apply solely to site conditions existing at the time when ECT's assessment was performed. It must be recognized, however, that an environmental site assessment is intended for the purpose of determining 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. ECT's ability to interpret investigation results is related to the availability of the data and the extent of the investigation activities. As such, 100 percent confidence in environmental site assessment conclusions cannot reasonably be achieved.

ECT, therefore, does not provide any guarantees, certifications, or warranties 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 applicable laws, codes, regulations, or standards.

2.5 Special Terms and Conditions

The scope of work for this Phase I ESA did not include testing of electrical equipment for the potential presence of polychlorinated biphenyls (PCBs) or the assessment of natural hazards such as the potential presence of radionuclides, or assessment of non-chemical hazards such as the potential for damage from earthquakes or floods.

2.6 User Reliance

This Phase I ESA was conducted for the use of and reliance by the City of Novi and their assigns. No use of the information contained in this report by others is permissible without receiving prior written authorization to do so from ECT. ECT is

not responsible for independent conclusions, opinions, or recommendations made by others or otherwise based on the findings presented in this report.

3.0 SITE DESCRIPTION

This section presents a general overview of the Subject Property, onsite improvements, and surrounding properties.

3.1 Location

The Subject Property is addressed as 50500 Eight Mile Road, Novi, Oakland County, Michigan 48167. The Subject Property is located along the north side of Eight Mile Road, with Napier Road to the west and Garfield Road to the east. A Site Location Map is presented as **Figure 1**.

3.2 Site and Vicinity General Characteristics

A Site and Surrounding Properties Map is presented as **Figure 2**. The Subject Property is located in a predominantly undeveloped or single family residential use area. The area is generally topographically homogenous, with a slight gradient dip to the south-southeast. The adjacent and nearby roads are paved.

3.3 Current Use of the Property

The Subject Property consists of approximately 87 acres of currently undeveloped land. Historical uses have included soil and topsoil screening, sand and gravel mining, and agricultural activities. The southeastern corner of the Subject Property was historically developed with a single family residence with three outbuildings which have been removed. The north and northwestern areas of the Subject Property are currently wooded. A pond area is located along the eastern side of the Subject Property. The Subject Property is accessed via Eight Mile Road to the south.

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

3.4.1 General Description of Structures

No structures are located on the Subject Property.

3.4.2 Roads

Primary access to the Subject Property is via Eight Mile Road to the south.

3.4.3 Potable Water Supply

The Subject Property is not connected to public water supplies.

3.4.4 Sewage Disposal System

Domestic sewerage is not connected to municipal sewerage services.

3.5 Current Uses of the Adjoining Properties

The property to the north is developed as a single family residential home neighborhood. The acreage to the west is occupied by a City of Novi sports park complex. The acreage to the east is currently undeveloped, and was the former Anderson (Munn) Landfill property. Maybury State Park is located to the south across Eight Mile Road.

4.0 USER-PROVIDED INFORMATION

This section identifies information provided by City of Novi representatives (prospective purchaser of the Subject Property).

4.1 Title Records

Available assessment and title records indicate that the Subject Property is owned by Servetus Opportunities, LLC. The records did not reveal the presence of any property liens.

4.2 Environmental Liens or Activity and Use Limitations

City of Novi representatives were asked the following questions as part of the assessment:

- Are you aware of any environmental cleanup liens against the Subject Property that are filed or recorded under federal, tribal, state, or local law?
- Are you aware of any activity or land use limitations, such as engineering controls, land use restrictions or institutional controls that are in place at the Subject Property and/or have been filed or recorded in a registry under federal, tribal, state or local law?

City of Novi representatives responded no to both questions.

4.3 Specialized Knowledge

City of Novi representatives were asked the following questions as part of the assessment:

- Do you have any specialized knowledge or experience related to the Subject Property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the Subject Property or an adjoining property so that you would have specialized knowledge of the chemicals and processes used by this type of business?
- Are you aware of commonly known or reasonably ascertainable information about the Subject Property 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 Subject Property?
 - b) Do you know of specific chemicals that are present or once were present at the Subject Property?
 - c) Do you know of spills or other chemical releases that have taken place at the Subject Property?
 - d) Do you know of any environmental cleanups that have taken place at the Subject Property?

City of Novi representatives directed ECT to contact the current property owner, who provided ECT and the City of Novi representatives with a copy of a January 2006 Phase I ESA and a Phase II investigation report prepared for the Subject Property prepared by Conestoga-Rovers & Associates, more specifically described in Section 5.2.

City of Novi representatives were also asked the following questions as part of the assessment:

- Do you know of any pending, threatened, or past litigation relevant to hazardous substances or petroleum products in, on, or from the Subject Property?
- Do you know of any pending, threatened, or past administrative proceedings relevant to hazardous substances or petroleum products in, on, or from the Subject Property?
- 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?

City of Novi representatives responded no to the above questions.

4.4 Commonly Known or Reasonably Ascertainable Information

City of Novi representatives were asked the following question as part of the assessment:

- Based on your knowledge and experience related to the Subject Property, are there any obvious indicators that point to the presence or likely presence of contamination at the Subject Property?

City of Novi representatives responded no to the above question.

4.5 Valuation Reduction for Environmental Issues

City of Novi representatives were asked whether they were aware of the presence of any environmental issues that would impact the property value. No value price reduction for environmental issues was reported.

4.6 Owner, Property Manager, and Occupant Information

Servetus Opportunities, LLC was identified as the current property owner. The site is currently unoccupied.

4.7 Reason for Performing Phase I

The reason for performing the Phase I ESA is to assess the presence/absence of RECs for a potential real property transfer and acquisition.

5.0 RECORDS REVIEW

The following section presents the results of a review of readily ascertainable federal and state regulatory agency files obtained through an electronic search of the records and a historical records review, including aerial photographs, topographic maps, street directories, and Sanborn fire insurance maps pertaining to the Subject Property, adjoining properties, and proximate properties.

5.1 Standard Environmental Record Sources

Regulatory agency database information was obtained from Environmental Data Resources, Inc. (EDR), which maps and lists properties in federal and state environmental databases with existing conditions or status that may have the potential to affect the Subject Property. The EDR-Radius Map report is provided as **Appendix A**.

5.1.1 Federal Environmental Record Sources

The following federal databases were reviewed in accordance with the ASTM E 1527-13 requirements:

5.1.1.1 National Priorities List (NPL; 1.0 mile)

The National Priorities List (NPL) is a subset of the Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) and identifies over 1,200 sites for priority cleanup under the Superfund program. An NPL site must meet or surpass a predetermined hazard ranking system score, be chosen as a state's top priority site, or meet three specific criteria set jointly by the U.S. Department of Health and Human Services and the U.S. Environmental Protection Agency (EPA). Source: U.S. EPA.

The Subject Property is not listed in the NPL database. No listed NPL properties are located within one mile of the Subject Property.

5.1.1.2 Delisted NPL Site List (NPL; 1.0 mile)

The Delisted NPL Site List includes properties that have been delisted from the NPL.

The Subject Property is not listed in the Delisted NPL Site database.

No delisted NPL properties are located within one mile of the Subject Property.

5.1.1.3 Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS; 0.50 mile)

The CERCLIS database contains data on potentially hazardous waste sites that have been reported to EPA by states, municipalities, private companies, and private persons pursuant to the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). The CERCLIS list includes sites that are either proposed for the NPL or in the screening and assessment phase for possible inclusion on the NPL. Source: U.S. EPA/National Technical Information Service (NTIS).

The Subject Property is not listed in the CERCLIS database. No CERCLIS properties are located within 0.50 mile of the Subject Property.

5.1.1.4 CERCLIS-No Further Remedial Action Planned (CERCLIS-NFRAP; 0.50 mile)

The CERCLIS-NFRAP database contains data on sites where, following an initial investigation, no contamination was found, contamination was removed quickly without the need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration. Source: U.S. EPA/National Technical Information Service (NTIS).

The Subject Property is not listed in the CERCLIS-NFRAP database. One CERCLIS-NFRAP listed property is located within 0.50 mile of the Subject Property:

Anderson (Munn) Landfill, the eastern adjoining property, is located at 50250 West 8 Mile Road. The property was listed as discovery in 1980. This property is also listed in the INVENTORY and Part 201 databases. The Part 201 database lists the landfill as containing domestic, commercial, and heavy manufacturing pollutants.

5.1.1.5 Corrective Action Report (CORRACTS; 1.0 mile)

The CORRACTS database identifies hazardous waste handlers with Resource Conservation and Recovery Act (RCRA) corrective action activity. Source: U.S. EPA.

The Subject Property is not listed in the CORRACTS database. No CORRACTS listed properties are located within one mile of the Subject Property.

5.1.1.6 Resource Conservation and Recovery Act (RCRA) Treatment, Storage, and Disposal (TSD) Facilities (0.50 mile)

The RCRAInfo database is USEPA's comprehensive information system includes selective information on properties that generate, transport, store treat, and/or dispose of hazardous waste as defined by RCRA.

The Subject Property is not listed as a RCRA TSD in the RCRAInfo database. No listed RCRA TSD properties are located within 0.50 mile of the Subject Property.

5.1.1.7 RCRA Generators Lists (Site and Adjoining Properties)

The RCRAInfo database is USEPA's comprehensive information system includes selective information on properties that generate, transport, store treat, and/or dispose of hazardous waste as defined by RCRA. Large-quantity generators (LQG) are those properties that generate at least 1,000 kilograms per month (kg/month) of non-acutely hazardous waste or meet other applicable RCRA requirements. Small-quantity generators (SQG) generate between 100 and 1,000 kg/month of non-acutely hazardous waste or meet other applicable RCRA requirements. Conditionally exempt SQG (CESQG) generates less than 100 kg/month of non-acutely hazardous waste or meets other applicable RCRA requirements. Non Generators are registered hazardous waste generators that do not presently generate hazardous waste.

The Subject Property is not listed as a generator in the RCRAInfo database. No properties in the RCRAInfo database are listed within 0.25 mile of the Subject Property.

5.1.1.8 Federal Institutional Control/Engineering Control Registries (Site only)

Federal institutional control and engineering control registries were requested in the database search. The Subject Property is not identified on either registry.

5.1.1.9 Emergency Response Notification System (ERNS; Site Only)

ERNS is a national database that records and stores information on reported releases of oil and hazardous substances. The database contains information on spill reports made to federal authorities including the U.S. EPA, U.S. Coast Guard, National Response Center, and Department of Transportation.

The Subject Property is not listed on the ERNS database.

5.1.2 State Environmental Record Sources

The following state databases were reviewed in accordance with the ASTM E 1527-13 requirements:

5.1.2.1 State-Equivalent CERCLIS Hazardous Waste Sites (SHWS/State Sites; 1.0 mile)

The State Hazardous Waste Site database lists potential or confirmed hazardous substance release properties.

The Subject Property is not listed in the SHWS database. No properties are listed in the SHWS database within one mile of the Subject Property.

5.1.2.2 State-Equivalent SWF/LF, State Landfill (SWIS; 0.50 mile)

This database is an inventory of solid waste disposal sites or landfills. These may be active or inactive sites or open dumps that failed to meet RCRA Section 2004 criteria for solid waste landfills or disposal sites.

The Subject Property is not listed in the landfill and solid waste sites databases. No landfill or solid waste sites are listed within 0.50 mile of the Subject Property in the state equivalent SWF/LF database. However, the eastern adjoining property, 50250 West 8 Mile Road, is listed as a landfill in the CERCLIS-NFRAP, INVENTORY, and Part 201 databases. Further information regarding this property may be found in Section 5.1.1.4.

5.1.2.3 State Leaking Underground Storage Tank Database (LUST; 0.50 mile)

The LUST database is a list of reported leaking UST incidents.

The Subject Property is not listed in the LUST database. No listed properties are located within 0.50 mile of the Subject Property.

5.1.2.4 State Registered Underground Storage Tank (UST; Site and Adjoining Properties)

This database contains listings for current UST sites.

The Subject Property is not listed in the UST database. No UST properties are listed within 0.25 mile of the Subject Property.

5.1.2.5 State Registered Aboveground Storage Tank (AST; Site and Adjoining Properties)

This database contains listings for current AST sites.

The Subject Property is not listed in the AST database. No AST properties are listed within 0.25 mile of the Subject Property.

5.1.2.6 State Institutional Control/Engineering Control Registries (Site Only)

This database contains registry entries for institutional and engineering controls.

The Subject Property is not listed in this database.

5.1.2.7 State Voluntary Cleanup Sites (0.50 mile)

This database contains listings for current voluntary cleanup sites.

The Subject Property is not listed in this database. No properties are listed in this database within 0.50 mile of the Subject Property.

5.1.2.8 State and Tribal Brownfield Sites (0.50 mile)

This database contains listings for current Brownfield sites.

The Subject Property is not listed in this database. No properties are listed in this database within 0.50 mile of the Subject Property.

5.1.2.9 State Baseline Environmental Site Assessment Site (0.50 mile)

In Michigan, a property in which subsurface contamination is detected at concentrations that exceed applicable residential criteria is defined as a “facility.” Potential buyers of facilities can file baseline environmental assessments (BEAs) for the said facilities to document known subsurface conditions at these properties at the time of purchase and limit future cleanup liabilities. The Subject Property is not listed in this database. No properties are listed in this database within 0.50 mile of the Subject Property.

5.1.2.10 Drycleaner Sites (0.25 mile)

This database contains listings for drycleaner sites.

The Subject Property is not listed in this database. No properties are listed in this database within 0.25 mile of the Subject Property.

5.2 Additional Environmental Record Sources

EDR provides Exclusive Records containing manufactured gas plant (MGP), US Historical Auto Station, and US Historical Cleaners properties. No properties were listed in EDR's Exclusive Records. The orphan summary list in the EDR-Radius Map report identifies properties that cannot be mapped due to poor or inadequate address information. No properties were listed in the orphan summary list.

ECT reviewed a Phase I ESA for the Subject Property prepared by Conestoga-Rovers & Associates (CRA) in January, 2006. Based on the findings of the Phase I ESA and reported previously performed investigations, the following RECs were noted: the presence of methane gas, the presence of fill material, the presence of the adjacent landfill property (east), and the presence of a former dry oil well and its associated mud pit. A Phase II investigation report was also prepared in 2006, with results indicating the presence of impacted soil and groundwater which was found in excess of the MDEQ Generic Residential Criteria for various exposure pathways and for various parameters, mostly metals. In addition, the presence of methane gas was discovered at various locations across the Subject Property.

ECT reviewed MDNR documents revealing that an oil well was drilled on the south-central portion of the Subject Property in the 1950s, likely with an associated mud pit. Records indicated that the well was dry, but did allow vapor to vent to the atmosphere. The well was reportedly left in place and plugged in the late 1950s. The well was apparently damaged by heavy earthwork machinery and covered with fill, possibly in the 1990s. Later investigation activities revealed the presence of methane gas in the area of the wellhead, which was ultimately closed and resealed in 2007 by the Michigan DEQ office of Geological Survey.

ECT reviewed available MDEQ reports regarding the adjacent Anderson (Munn) landfill property located to the east of the Subject Property utilizing the MDEQ Freedom of Information Act (FOIA) process.

5.3 Physical Setting Source(s)

The U.S. Geological Survey (USGS) 7.5-minute topographic map of the Salem, Michigan quadrangle were reviewed. According to the topographic map, the average elevation at the Subject Property is approximately 969 feet above mean sea level. The topographic gradient in the vicinity of the Subject Property appears to generally slope east.

5.4 Historical Use Information on the Property and Adjoining Properties

To evaluate historical use of the property, ECT reviewed readily available topographic maps, aerial photographs, street index directories, and fire insurance maps.

5.4.1 Topographic Maps

ECT ordered available historical topographic maps of the Subject Property and its vicinity from EDR. The USGS 15-minute series quadrangle maps of South Lyon, Michigan obtained from EDR are dated 1902 and 1906. The USGS 30-minute series quadrangle maps of Ann Arbor, Michigan obtained from EDR are dated 1904 and 1908. The USGS 7.5-minute series quadrangle maps of Salem, Michigan obtained from EDR are dated 1936, 1945, 1953, 1969, 1973, 1980, and 2014.

The Subject Property is depicted as a portion of rural Novi, Michigan on all of the available topographic maps. Eight Mile Road/Base Line Road appears on all available maps. Two structures first appear on the southern portion of the Subject Property on the map dated 1953 along with an orchard in the southwestern corner. Orchards also appear on the western and eastern adjoining properties on the map dated 1953. A pond appears on the eastern adjoining property and a majority of the orchard on the eastern adjoining property appears to have been removed on the map dated 1969. A majority of the Subject Property appears to be taken up by gravel pit operations with a small pit noted on the eastern property line on the map dated 1973. The ponds on the eastern adjoining property no longer appear on the map dated 1973. The gravel pit operation takes up a majority of the Subject Property on the map dated 1980 with a large pit noted along the eastern boundary. Each subsequent map depicts further residential development in the vicinity. Copies of the available historic topographic maps are provided in **Appendix B**.

5.4.2 Aerial Photographs

ECT obtained historical aerial photographs of the Subject Property and its vicinity from EDR. The historical aerial photographs are dated 1937, 1940, 1949, 1956, 1961, 1967, 1972, 1976, 1983, 1987, 1997, 1999, 2005, 2006, 2009, 2010, and 2012. A review of historical aerial photographs documents changes that have occurred in land uses and features located at the Subject Property and on adjoining properties. Copies of the historical aerial photographs are provided in **Appendix C**. A residence and barn on the southeastern portion of the Subject Property and an orchard on the southwestern portion appear as early as 1937; the remaining portions of the Subject Property appear to have agricultural uses. The central and eastern portions of the Subject Property appear to have gravel excavating use as early as 1972. A significant amount of the northern and eastern portions of the Subject Property appear to be occupied by water from gravel pit operations as early as 1983. The barn and orchard have been removed during expansion of gravel excavating activities as early as 1997. A majority of the excavated land appears to be covered in vegetation on the

photograph dated 2009. Evidence of excavation is present on photographs dated 2010 and 2012. The eastern adjoining property appears as an orchard from as early as 1937 until as late as 1956. Some type of excavating and/or dumping appears on the northern portion of the eastern adjoining property from as early as 1961. Landfilling or excavating activities appear on the majority of the eastern adjoining property on the photograph dated 1967. Each subsequent map from 1967 through 2012 depicts increased vegetative and forest growth on the eastern adjoining property. The western adjoining property appears to be occupied by a farm residence and small orchard from as early as 1937 until as late as 1987. The western adjoining property appears to be developed with a sports park from as early as 1997. The remaining adjoining properties appear as vacant agricultural or undeveloped land.

5.4.3 Street Directories

ECT ordered a City Directory Image Report for the Subject Property and its vicinity from EDR. Street directories for Eight Mile Road were available at approximately three to five year intervals from 1974 to 2013. The Subject Property was not listed in any of the available street directories with the exception of a private owner in 2003. The southern adjoining property, 50225 Eight Mile Road, was listed as being occupied by some variation of the State Natural Resources Department from as early as 1992 until 1999. A copy of the city directory abstract is provided as **Appendix D**.

5.4.4 Fire Insurance Maps

ECT ordered available Sanborn Fire Insurance Maps for the Subject Property and its vicinity from EDR. EDR reported the Subject Property as an unmapped property. A copy of the Certified Sanborn Map Report is provided in **Appendix E**.

6.0 SITE RECONNAISSANCE

On December 15, 2016, Mr. Dirk Mammen and Mr. Pete Hill of ECT performed a site reconnaissance of the Subject Property to observe general site conditions and indications of the possible release(s) of chemicals to the subsurface. A walkover site inspection was conducted to identify visible evidence of recognized environmental conditions. Photographs taken during ECT's site inspection are included in **Appendix F**.

Mr. Mammen prepared this Phase I ESA report documenting ECT's observations and documentation review. Qualifications for Mr. Mammen are included in **Appendix G**.

6.1 Methodology and Limiting Conditions

ECT was provided access to the Subject Property. The methodology for the site reconnaissance included observing the Subject Property.

6.2 General Site Setting

6.2.1 Current Use(s) of the Property

At the time of the site reconnaissance, the 87 acre Subject Property was undeveloped and unoccupied, with no apparent current uses.

6.2.2 Past Use(s) of the Property

Based on a review of aerial photography and other historical records, it appears that the Subject Property has historically been occupied by a sand and gravel mining operations, with current visual evidence of historical earthwork, including pond creation. Prior uses include general agriculture and orchard activities.

6.2.3 Current Uses of Adjoining Properties

The northern adjoining properties are residential subdivision lots. The western adjoining property is the ITC Community Sports Park. The southern adjoining property is part of the Maybury Farm State Park. The eastern adjoining property is vacant and wooded.

6.2.4 Past Uses of Adjoining Properties

The vicinity of the Subject Property was agricultural with interspersed residences from as early as 1937. The eastern adjoining property was an orchard from as early as 1937 until as late as 1967. Landfilling or excavating activities appeared on the majority of the eastern adjoining property on the aerial photograph dated 1967. Each subsequent map from 1967 through 2012 depicts increased vegetative and forest growth on the eastern adjoining property. The western adjoining property was developed with a sports park as early as 1997.

6.2.5 Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions

Based on surface topography as interpreted from the USGS topographic map, regional shallow ground water in the site vicinity is anticipated to flow towards the east.

The EDR-Radius Map report stated that the Subject Property is underlain by bedrock of the Paleozoic Era, Mississippian System, and Osagean and Kinderhookian Series. The dominant soil compositions in the general vicinity of the Subject Property are excessively drained sands.

6.3 Observations

The following items were looked for, or identification was attempted, as indicated in the ASTM standard.

6.3.1 Hazardous Substances and Petroleum Products in Connection with Identified Uses

The presence of hazardous substances or petroleum products in connection with the Subject Property was investigated. No hazardous substances or petroleum products were observed on the Subject Property at the time of the site reconnaissance.

6.3.2 Storage Tanks

ECT looked for ASTs, USTs, and evidence of USTs (e.g., vent pipes, fill pipes, or access ways indicating USTs) during the site reconnaissance. No ASTs or evidence of USTs were observed on the Subject Property at the time of the site reconnaissance. ECT observed metal debris along the south side of the Subject Property, including what may have been an abandoned AST.

6.3.3 Odors

The Subject Property was checked for strong, pungent, or noxious odors and their sources during the site reconnaissance. No readily noticeable strong, pungent, or noxious odors were encountered.

6.3.4 Pools of Liquid

ECT looked for standing surface water and pools or sumps containing liquids likely to contain hazardous substances or petroleum products during the site reconnaissance. No standing surface water, pools, or sumps likely to contain hazardous substances or petroleum products were observed on the Subject Property at the time of the site reconnaissance. A pond is located along the east central portion of the Subject Property, with no evidence of staining or sheen observed.

6.3.5 Drums

ECT looked for storage drums during the site reconnaissance. ECT observed the presence of debris along the south side of the Subject Property, including heavily rusted and damaged drums (approximately five drums). Snow cover made detailed descriptions impracticable, however, the drums appeared to be empty, with some still showing labels identifying the historical use of motor oil storage.

6.3.6 Hazardous Substances and Petroleum Products Containers (Not Necessarily in Connection with Identified Uses)

ECT looked for hazardous substances and petroleum products containers during the site reconnaissance. No hazardous substances and petroleum products containers were observed on the Subject Property at the time of the site reconnaissance with the exception of the debris and drums previously identified.

6.3.7 Unidentified Substance Containers

ECT looked for open or damaged containers containing unidentified substances suspected of being hazardous substances or petroleum products during the site reconnaissance. No such containers were observed on the Subject Property at the time of the site reconnaissance with the exception of the previously identified debris and drums, as well as de minimus quantities of what appears to be used motor oil located within the tool trailer.

6.3.8 PCBs

ECT looked for electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs during the site reconnaissance. As indicated in the ASTM standard, fluorescent light ballasts (which may or may not be present onsite) were not evaluated. No electrical or hydraulic equipment known to contain PCBs or likely to contain PCBs were observed on the Subject Property at the time of the site reconnaissance.

6.3.9 Pits, Ponds, or Lagoons

ECT looked for pits, ponds, or lagoons on the Subject Property and on adjoining properties (to the extent they were visually and/or physically observable from the Subject Property) during the site reconnaissance. A pond is located along the east central portion of the Subject Property, with no evidence of staining or sheen observed.

6.3.10 Stained Soil or Pavement

ECT looked for areas of stained soil or pavement during the site reconnaissance. No areas of significant stained soil or pavement were observed on the Subject Property at the time of the site reconnaissance.

6.3.11 Stressed Vegetation

ECT looked for areas of stressed vegetation (from other than insufficient watering) during the site reconnaissance. No areas of stressed vegetation were observed on the Subject Property at the time of the site reconnaissance.

6.3.12 Solid Waste

ECT looked for areas that are apparently filled or graded by non-natural causes (or filled by fill of unknown origin) suggesting trash construction debris, demolition debris, or other solid waste disposal, or mounds or depressions suggesting trash or other solid waste disposal during the site reconnaissance. It appears that much of the northern portion of the Subject Property may have undergone some form of land balancing/flattening, with berm creation along the western and eastern property lines and drainage/pond manipulation. Small stockpiles of soils were also observed. In addition, ECT observed the presence of metal debris, aged equipment and tool trailer, and other materials along the south side of the Subject Property.

6.3.13 Wastewater

ECT looked for wastewater or other liquids (including storm water) or any discharge into a drain, ditch, underground injection system, or stream on or adjoining to the Subject Property during the site reconnaissance. Storm water runoff is expected to seep into the ground and follow natural topography to the nearest surface water body, which may include the on-site pond.

6.3.14 Wells

ECT looked for wells, including dry wells, irrigation wells, injection wells, monitoring wells, abandoned wells, or other wells during the site reconnaissance. ECT observed the presence of what appears to be approximately five groundwater monitoring wells across the Subject Property (2 inch diameter PVC pipe) and up to approximately twenty soil vapor monitoring points (1 inch diameter PVC pipe with vapor nozzles). ECT did not observed the presence of any potable water supply wells. A former farm home area was observed along the southeast corner of the Subject Property, however, no wells were observed.

6.3.15 Septic Systems

ECT looked for indications of onsite septic systems or cesspools during the site reconnaissance. No indications of onsite septic systems or cesspools were observed at the Subject Property, with the exception of the presumed presence of a former septic system associated with the former farm home located along the southeast corner of the Subject Property.

7.0 INTERVIEWS

7.1 Interviews with Site Contacts

The Subject Property was unoccupied. An interview with representatives of Servetus Opportunities LLC (current landowner) was completed and ECT was provided with historical site assessment reports previously identified, including documentation of the former farm home removal and oil well capping process.

7.2 Interviews with Local Government Officials

ECT reviewed on-line records maintained by the Oakland County GIS and Assessment Departments. Pertinent information obtained from the municipal records review is summarized in the appropriate sections of this report. In addition, the Oakland County Department of Environmental Health was contacted, with no reference to known environmental concerns.

8.0 FINDINGS

This section identifies known or suspect current RECs, historical RECs, controlled RECs, and *de minimis* conditions discovered during this Phase I ESA investigation.

8.1 Known or Suspect Current RECs

No known or suspected current RECs were identified during this Phase I ESA, with the exception of the following RECs:

- Methane gas was previously discovered both in the subsurface soils and emanating into the ambient air during the 2006 site investigation activity. The investigation revealed the presence of methane gas at concentrations above levels of concern and additional investigation to determine acute risks was recommended. It appears that the presence of the methane gas was due to the improper abandonment and following former oil well damage as a result of heavy equipment use and the presence of the former drilling mud pit.
- Historical investigations have indicated that areas of unnatural fill, primarily construction debris, were observed on the Subject Property, presumably as part of the former sand and gravel mining operation. Soil and groundwater testing activity has revealed the presence of elevated metals.
- The Subject Property is located directly west of a former landfill (Anderson-Munn), with records revealing dumping of some chemicals and potentially hazardous materials.

- Miscellaneous dumping of materials, including tires, metals objects and possible abandoned drums were observed along the south side of the Subject Property.
- Historical use in some areas of the Subject Property as an orchard prior to the removal of sand and gravel.

8.2 Historical RECs

No historical RECs were identified during this Phase I ESA.

8.3 Controlled RECs

No controlled RECs were identified during this Phase I ESA.

8.4 De Minimis Conditions

No *de minimis* conditions were identified during this Phase I ESA.

9.0 OPINION AND CONCLUSIONS

ECT has performed a Phase I and II ESA in conformance with the scope and limitations of ASTM Practice E 1527-13 of the Subject Property located at 50500 Eight Mile Road, Novi, Oakland County, Michigan. This assessment has revealed no evidence of current, historical or controlled Recognized Environmental Conditions (RECs) or *de minimis* conditions associated with the Subject Property with the exception of the following current RECs:

- Methane gas was previously discovered both in the subsurface soils and emanating into the ambient air during the 2006 site investigation activity. The investigation revealed the presence of methane gas at concentrations above levels of concern and additional investigation to determine acute risks was recommended. It appears that the presence of the methane gas was due to the improper abandonment and following former oil well damage as a result of heavy equipment use and the presence of the former drilling mud pit.
- Historical investigations have indicated that areas of unnatural fill, primarily construction debris, were observed on the Subject Property, presumably as part of the former sand and gravel mining operation. Soil and groundwater testing activity has revealed the presence of elevated metals.
- The Subject Property is located directly west of a former landfill (Anderson-Munn), with records revealing dumping of some chemicals and potentially hazardous materials.

- Miscellaneous dumping of materials, including tires, metals objects and possible abandoned drums were observed along the south side of the Subject Property.
- Historical use in some areas of the Subject Property as an orchard prior to the removal of sand and gravel.

Based on the presence of the RECs, ECT recommends the performance of Phase II assessment activity to include the following:

- Perform methane gas sampling from the existing wells and gas vapor points to verify the presence or absence of methane gas.
- Sample the existing on-site groundwater monitoring wells to verify the presence or absence of elevated contaminants. Perform groundwater evaluations required to confirm the groundwater flow direction, if possible.
- Perform shallow soil sampling in areas of debris dumping to verify the presence or absence of near surface impacts.

10.0 DEVIATIONS/DATA GAPS

No significant deviations or data gaps from the ASTM practice were identified, with the exception of the presence of snow cover in some areas reducing the ability to make visual observations.

11.0 ADDITIONAL SERVICES

The following additional services were not provided as part of the scope for conducting this Phase I ESA:

Asbestos-containing materials assessment;	Industrial hygiene;
Radon assessment;	Health and safety;
Lead-based paint;	Ecological resources;
Lead in drinking water;	Endangered species;
Wetlands;	Indoor air quality;
Regulated compliance;	Biological agents; and
Cultural and historic resources;	Mold.

12.0 REFERENCES

ASTM, 2013 American Society for Testing and Materials (ASTM), Standard E 1527, Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process, 2013.

Environmental Data Resources, Inc., (EDR), EDR-Radius Map Report with GeoCheck: Inquiry No. 4803584.2s, December 12, 2016.

EDR, The EDR Aerial Photo Decade Package: Inquiry No. 4803584.9, December 12, 2016.

EDR, The EDR Historical Topographic Map Report: Inquiry No. 4803584.4, December 12, 2016.

EDR, The EDR Sanborn Map Report: Inquiry No. 4803584.3, December 12, 2016.

EDR, The EDR City Directory Image Report: Inquiry No. 4803584.5, December 12, 2016.

Conestoga-Rovers & Associates, Phase I Environmental Site Assessment, January, 2006.

Conestoga-Rovers & Associates, Phase II Environmental Site Assessment, January, 2006.

MDEQ FOIA records for the Anderson (Munn) landfill, miscellaneous documents.

On-Site Oil Well Capping Correspondence with Michigan DEQ.

City of Novi records pertaining to former removal and elimination of abandoned structures (former farm home).

13.0 SIGNATURE(S) OF ENVIRONMENTAL PROFESSIONAL(S)

The environmental assessment described herein was conducted by the undersigned employees of ECT. ECT's investigation consisted solely of the activities described in the Introduction of this report, and in accordance with the Terms and Conditions of the Standard Consulting Services Agreement signed prior to initiation of the assessment, as applicable.

We declare that, to the best of our professional knowledge and belief, we meet the definition of environmental professionals 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.

Report Prepared By:

A handwritten signature in dark ink, appearing to read "Dirk S. Mammen", is written over a horizontal line. The signature is cursive and fluid.

Dirk S. Mammen
Principal Scientist

FIGURES

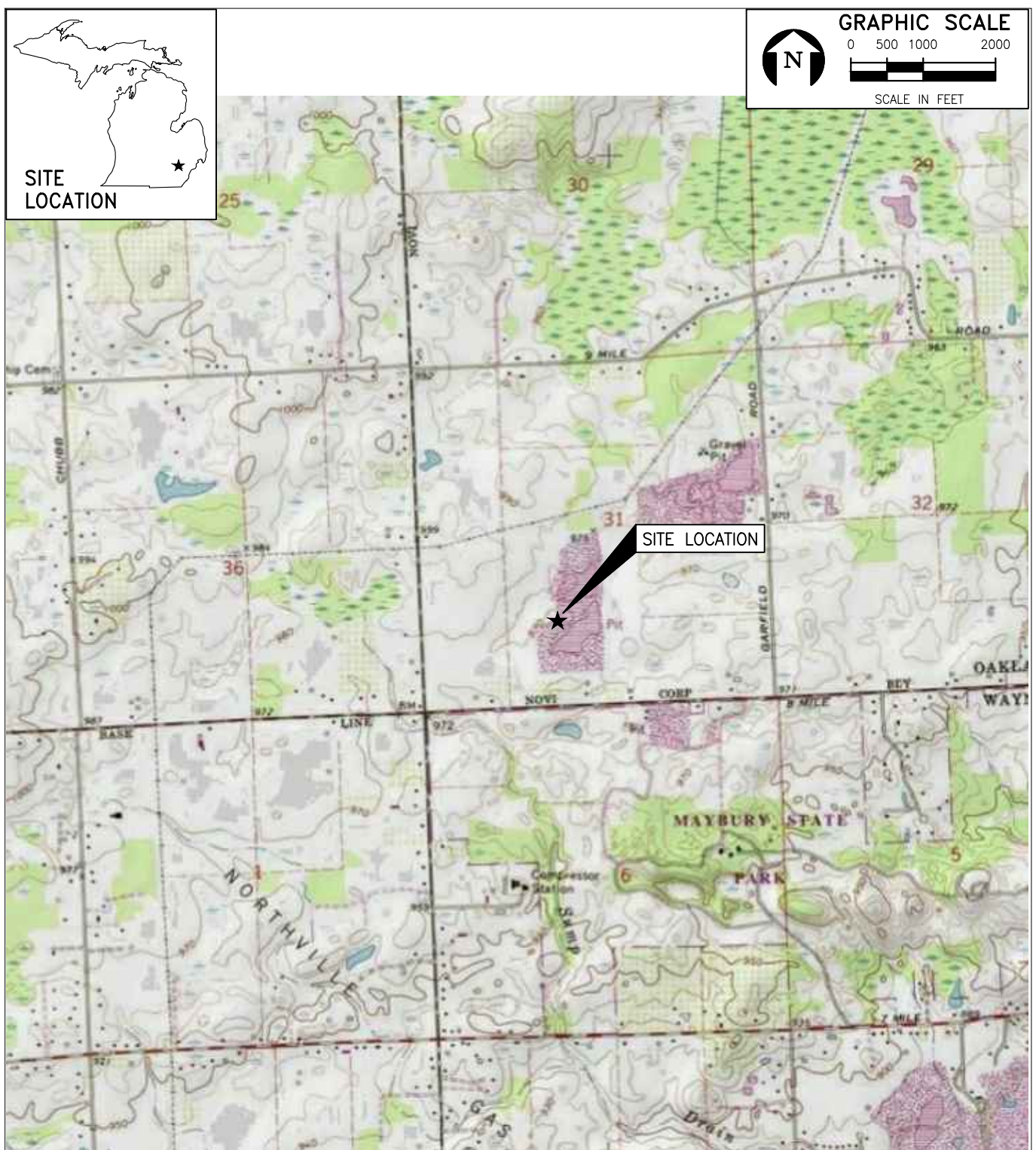


FIGURE 1.
SITE LOCATION MAP

Sources: USGS US Topo (7.5') Salem, MI, 2014; ECT, 2016.

ECT Environmental
Consulting &
Technology, Inc.

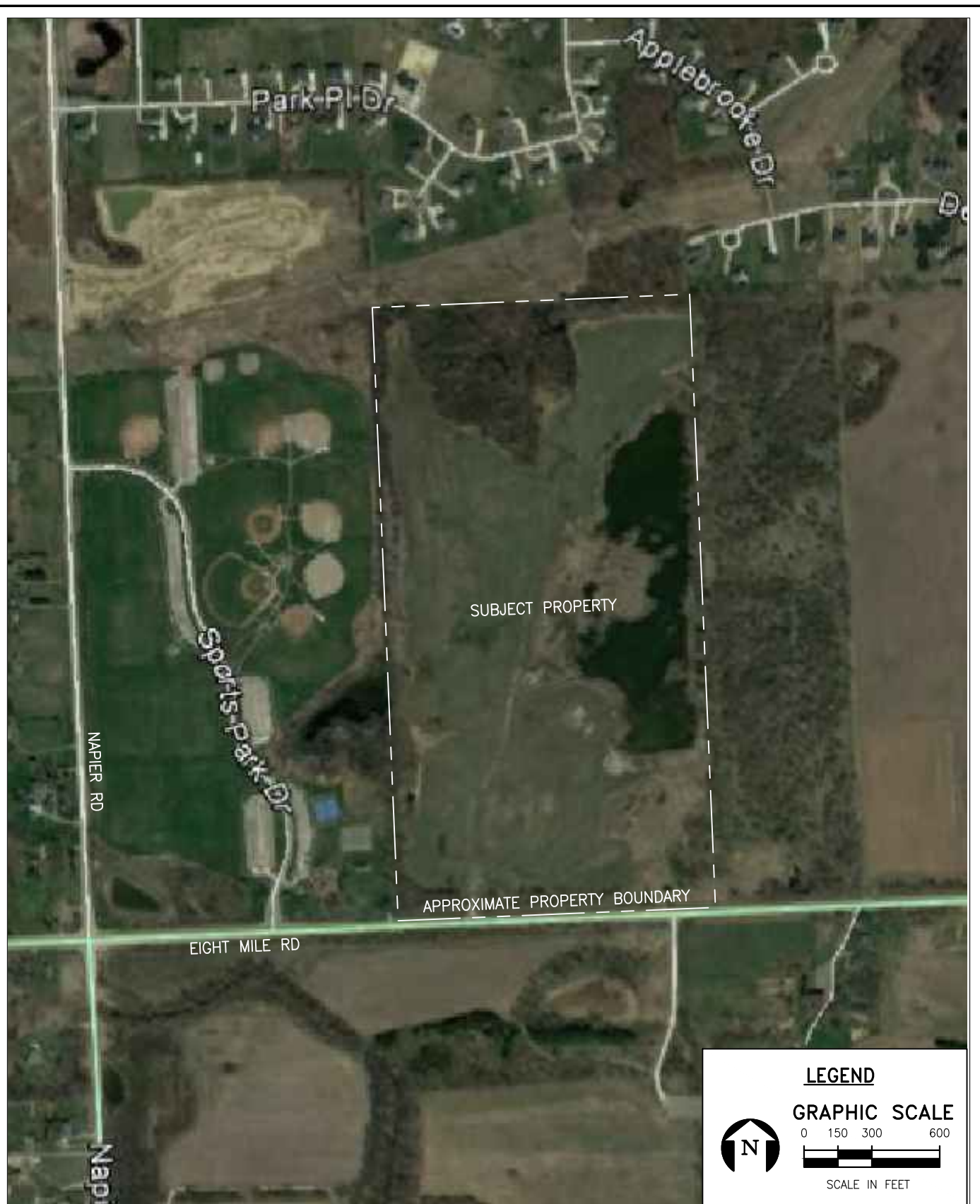


FIGURE 2.
SITE AND SURROUNDING PROPERTIES

Source: Google Earth, 2016.

ECT Environmental
Consulting &
Technology, Inc.

APPENDIX A

EDR-Radius Map Report

Novi Parks - 50500 8 Mile

50500 East 8 Mile

Northville, MI 48167

Inquiry Number: 4803584.2s

December 12, 2016

The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor
Shelton, CT 06484
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 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

50500 EAST 8 MILE
NORTHVILLE, MI 48167

COORDINATES

Latitude (North):	42.4387750 - 42° 26' 19.59"
Longitude (West):	83.5441480 - 83° 32' 38.93"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	290741.3
UTM Y (Meters):	4701416.5
Elevation:	969 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	6066326 SALEM, MI
Version Date:	2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140705
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
50500 EAST 8 MILE
NORTHVILLE, MI 48167

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	ANDERSON MUNICIPAL L	50250 W 8 MILE RD(BT	INVENTORY, PART 201	Lower	884, 0.167, ENE
2	ANDERSON (MUNN) LAND	50250 WEST 8 MILE RO	SEMS-ARCHIVE	Higher	1324, 0.251, SSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL..... National Priority List
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

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-LQG..... RCRA - Large Quantity Generators
RCRA-SQG..... RCRA - Small Quantity Generators
RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

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State- and tribal - equivalent CERCLIS

SHWS..... This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

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

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

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Underground Storage Tank Facility List
AST..... Aboveground Tanks
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal institutional control / engineering control registries

AUL..... Engineering and Institutional Controls

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Brownfields and UST Site Database

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL..... Delisted National Clandestine Laboratory Register
CDL..... Clandestine Drug Lab Listing
DEL PART 201..... Delisted List of Contaminated Sites

EXECUTIVE SUMMARY

US CDL..... National Clandestine Laboratory Register

Local Land Records

LIENS..... Lien List
LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

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

Other Ascertainable Records

RCRA NonGen / NLR..... RCRA - Non Generators / No Longer Regulated
FUDS..... Formerly Used Defense Sites
DOD..... Department of Defense Sites
SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PRP..... Potentially Responsible Parties
PADS..... PCB Activity Database System
ICIS..... Integrated Compliance Information System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
FINDS..... Facility Index System/Facility Registry System
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
UXO..... Unexploded Ordnance Sites
AIRS..... Permit and Emissions Inventory Data
BEA..... Baseline Environmental Assessment Database
COAL ASH..... Coal Ash Disposal Sites
DRYCLEANERS..... Drycleaning Establishments
LEAD..... Lead Safe Housing Registry
NPDES..... List of Active NPDES Permits

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UIC.....	Underground Injection Wells Database
WDS.....	Waste Data System
ABANDONED MINES.....	Abandoned Mines
FUELS PROGRAM.....	EPA Fuels Program Registered Listing
ECHO.....	Enforcement & Compliance History Information

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Auto.....	EDR Exclusive Historic Gas Stations
EDR Hist Cleaner.....	EDR Exclusive Historic Dry Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA PART 201.....	Recovered Government Archive State Hazardous Waste Facilities List
RGA LF.....	Recovered Government Archive Solid Waste Facilities List
RGA LUST.....	Recovered Government Archive Leaking Underground Storage Tank

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

SEMS-ARCHIVE: SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

A review of the SEMS-ARCHIVE list, as provided by EDR, and dated 03/07/2016 has revealed that there

EXECUTIVE SUMMARY

is 1 SEMS-ARCHIVE site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANDERSON (MUNN) LAND	50250 WEST 8 MILE RO	SSW 1/4 - 1/2 (0.251 mi.)	2	8

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

INVENTORY: The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

A review of the INVENTORY list, as provided by EDR, and dated 07/26/2016 has revealed that there is 1 INVENTORY site within approximately 0.5 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANDERSON MUNICIPAL L Facility ID: 63000005	50250 W 8 MILE RD(BT	ENE 1/8 - 1/4 (0.167 mi.)	1	8

PART 201: A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental impact.

A review of the PART 201 list, as provided by EDR, and dated 10/01/2013 has revealed that there is 1 PART 201 site within approximately 1 mile of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
ANDERSON MUNICIPAL L Facility Status: Inactive - no actions taken to address contamination Facility ID: 63000005	50250 W 8 MILE RD(BT	ENE 1/8 - 1/4 (0.167 mi.)	1	8

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 4803584.2S



★ 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

— County Boundary

— Power transmission lines

— Pipelines

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ State Wetlands

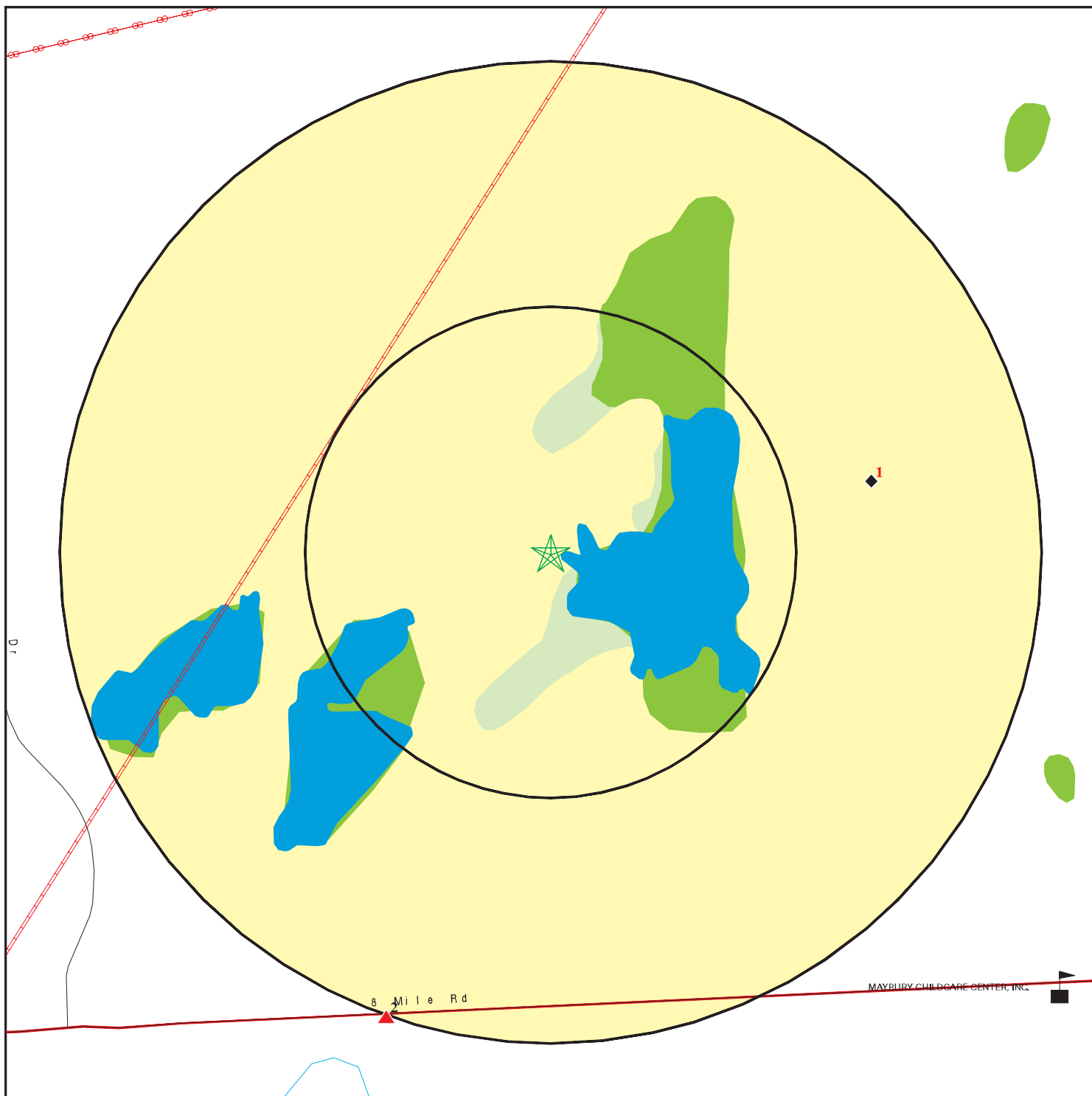
0 1/4 1/2 1 Miles

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

SITE NAME: Novi Parks - 50500 8 Mile
ADDRESS: 50500 East 8 Mile
Northville MI 48167
LAT/LONG: 42.438775 / 83.544148

CLIENT: ECT
CONTACT: Dirk Mammen
INQUIRY #: 4803584.2s
DATE: December 12, 2016 10:54 am

DETAIL MAP - 4803584.2S



-  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
-  County Boundary
-  Power transmission lines
-  Pipelines
-  100-year flood zone
-  500-year flood zone
-  National Wetland Inventory
-  State Wetlands

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

SITE NAME: Novi Parks - 50500 8 Mile
ADDRESS: 50500 East 8 Mile
Northville MI 48167
LAT/LONG: 42.438775 / 83.544148

CLIENT: ECT
CONTACT: Dirk Mammen
INQUIRY #: 4803584.2s
DATE: December 12, 2016 10:55 am

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 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	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
<i>Federal Delisted NPL site list</i>								
Delisted NPL	1.000		0	0	0	0	NR	0
<i>Federal CERCLIS list</i>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<i>Federal CERCLIS NFRAP site list</i>								
SEMS-ARCHIVE	0.500		0	0	1	NR	NR	1
<i>Federal RCRA CORRACTS facilities list</i>								
CORRACTS	1.000		0	0	0	0	NR	0
<i>Federal RCRA non-CORRACTS TSD facilities list</i>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<i>Federal RCRA generators list</i>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
<i>Federal institutional controls / engineering controls registries</i>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
<i>Federal ERNS list</i>								
ERNS	TP		NR	NR	NR	NR	NR	0
<i>State- and tribal - equivalent CERCLIS</i>								
SHWS	1.000		0	0	0	0	NR	0
<i>State and tribal landfill and/or solid waste disposal site lists</i>								
SWF/LF	0.500		0	0	0	NR	NR	0
<i>State and tribal leaking storage tank lists</i>								
LUST	0.500		0	0	0	NR	NR	0
INDIAN LUST	0.500		0	0	0	NR	NR	0
<i>State and tribal registered storage tank lists</i>								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
INVENTORY	0.500		0	1	0	NR	NR	1
PART 201	1.000		0	1	0	0	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
BEA	0.500		0	0	0	NR	NR	0
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA PART 201	TP		NR	NR	NR	NR	NR	0
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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		0	0	2	1	0	0	3

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
1/8-1/4
0.167 mi.
884 ft.

ANDERSON MUNICIPAL LF
50250 W 8 MILE RD(BTW GARFIELD & NAPIER)
NOVI, MI 48167

INVENTORY
PART 201
1000218556
N/A

Relative:
Lower

INVENTORY:
Bea Number: Not reported
Township: Novi
District: Southeast MI
Data Source: Part 201
Latitude: 42.43962
Longitude: -83.42703

Actual:
965 ft.

PART 201:
Facility ID: 63000005
Facility Status: Inactive - no actions taken to address contamination
Source: Refuse Systems
SAM Score: 28
SAM Score Date: 01/22/2004
Township: 01N
Range: 08E
Section: 31
Quarter: SW
Quarter/Quarter: SE
Pollutants: Domestic comm; Heavy mfg

2
SSW
1/4-1/2
0.251 mi.
1324 ft.

ANDERSON (MUNN) LANDFILL
50250 WEST 8 MILE ROAD (@GARFIELD)
NOVI TWP, MI 48050

SEMS-ARCHIVE
1003871304
MID980678528

Relative:
Higher

SEMS-ARCHIVE:
Site ID: 502925
EPA ID: MID980678528
Federal Facility: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Actual:
974 ft.

Following information was gathered from the prior CERCLIS update completed in 10/2013:

Site ID: 0502925
Federal Facility: Not a Federal Facility
NPL Status: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

CERCLIS-NFRAP Site Alias Name(s):

Alias Name: ANDERSON (MUNN) LDFL
Alias Address: 50250 W 8 MILE RD (@GARFIELD)
NOVI TWP, MI 48050

Program Priority:

Description: Great Lakes

CERCLIS-NFRAP Assessment History:

Action: DISCOVERY
Date Started: / /
Date Completed: 12/11/80

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ANDERSON (MUNN) LANDFILL (Continued)

1003871304

Priority Level: Not reported

Action: ARCHIVE SITE

Date Started: / /

Date Completed: 09/14/88

Priority Level: Not reported

Action: SITE INSPECTION

Date Started: / /

Date Completed: 09/14/88

Priority Level: NFRAP-Site does not qualify for the NPL based on existing information

Action: PRELIMINARY ASSESSMENT

Date Started: / /

Date Completed: 07/24/85

Priority Level: Low priority for further assessment

Count: 0 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
NO SITES FOUND					

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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	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: 08/15/2011
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/28/2011
	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: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: N/A
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 09/14/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/04/2016	Telephone: 703-603-8704
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/04/2016
Number of Days to Update: 17	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly known as CERCLIS, renamed to SEMS by the EPA in 2015. The list 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). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS 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 the 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. The 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 potential NPL site.

Date of Government Version: 03/07/2016	Source: EPA
Date Data Arrived at EDR: 04/05/2016	Telephone: 800-424-9346
Date Made Active in Reports: 04/15/2016	Last EDR Contact: 10/20/2016
Number of Days to Update: 10	Next Scheduled EDR Contact: 01/30/2017
	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: 06/27/2016	Source: EPA
Date Data Arrived at EDR: 06/30/2016	Telephone: 800-424-9346
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, 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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 312-886-6186
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 312-886-6186
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 312-886-6186
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	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: 06/21/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/30/2016	Telephone: 312-886-6186
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 09/28/2016
Number of Days to Update: 64	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

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: 05/28/2015	Source: Department of the Navy
Date Data Arrived at EDR: 05/29/2015	Telephone: 843-820-7326
Date Made Active in Reports: 06/11/2015	Last EDR Contact: 11/18/2016
Number of Days to Update: 13	Next Scheduled EDR Contact: 02/27/2017
	Data Release Frequency: Varies

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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	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: 05/09/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/01/2016	Telephone: 703-603-0695
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 93	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 09/29/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

State- and tribal - equivalent CERCLIS

SHWS: This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

This state does not maintain a SHWS list. See the Federal CERCLIS list and Federal NPL list.

Date of Government Version: N/A
Date Data Arrived at EDR: 10/31/2013
Date Made Active in Reports: 11/20/2013
Number of Days to Update: 20

Source: Dept of Environmental Quality
Telephone: 517-284-5103
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

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: 09/27/2016
Date Data Arrived at EDR: 09/27/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 22

Source: Dept of Environmental Quality
Telephone: 517-335-4035
Last EDR Contact: 09/27/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 06/29/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 11/02/2016
Number of Days to Update: 77

Source: Dept of Environmental Quality
Telephone: 517-373-9837
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Annually

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land

Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 02/17/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

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: 10/27/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

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

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

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

Date of Government Version: 10/13/2015
Date Data Arrived at EDR: 10/23/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 118

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
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: 10/09/2015
Date Data Arrived at EDR: 02/12/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 112

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
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: 12/11/2015
Date Data Arrived at EDR: 02/19/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 105

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

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

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 10/11/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Varies

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: 06/29/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 63

Source: Dept of Environmental Quality
Telephone: 517-241-8847
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

A listing of underground storage tank site locations that have unknown owner information.

Date of Government Version: 07/19/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 38

Source: Dept of Environmental Quality
Telephone: 517-241-8847
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 08/03/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 58

Source: Dept of Environmental Quality
Telephone: 517-241-8847
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

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: 12/03/2015
Date Data Arrived at EDR: 02/04/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 120

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

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: 09/23/2014
Date Data Arrived at EDR: 11/25/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 65

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
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).

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 01/26/2016
Date Data Arrived at EDR: 02/05/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 119

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

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: 11/05/2015
Date Data Arrived at EDR: 11/13/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 52

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/25/2016
Date Data Arrived at EDR: 04/27/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 37

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R4: Underground Storage Tanks on Indian Land

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

Date of Government Version: 02/05/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 35

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 01/07/2016
Date Data Arrived at EDR: 01/08/2016
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 41

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/20/2015
Date Data Arrived at EDR: 10/29/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 67

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 10/28/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

AUL: Engineering and Institutional Controls

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

Date of Government Version: 09/15/2016	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 09/16/2016	Telephone: 517-373-4828
Date Made Active in Reports: 10/19/2016	Last EDR Contact: 11/28/2016
Number of Days to Update: 33	Next Scheduled EDR Contact: 03/13/2017
	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: 07/27/2015	Source: EPA, Region 1
Date Data Arrived at EDR: 09/29/2015	Telephone: 617-918-1102
Date Made Active in Reports: 02/18/2016	Last EDR Contact: 09/26/2016
Number of Days to Update: 142	Next Scheduled EDR Contact: 01/09/2017
	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	Source: EPA, Region 7
Date Data Arrived at EDR: 04/22/2008	Telephone: 913-551-7365
Date Made Active in Reports: 05/19/2008	Last EDR Contact: 04/20/2009
Number of Days to Update: 27	Next Scheduled EDR Contact: 07/20/2009
	Data Release Frequency: Varies

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: 01/15/2016	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 02/02/2016	Telephone: 517-373-4805
Date Made Active in Reports: 04/04/2016	Last EDR Contact: 10/24/2016
Number of Days to Update: 62	Next Scheduled EDR Contact: 02/06/2017
	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	Source: Economic Development Corporation
Date Data Arrived at EDR: 04/10/2007	Telephone: 888-522-0103
Date Made Active in Reports: 05/01/2007	Last EDR Contact: 11/28/2016
Number of Days to Update: 21	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/20/2016
Date Data Arrived at EDR: 09/21/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 51

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/21/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

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

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

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/11/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 52

Source: Dept of Environmental Quality
Telephone: 517-241-5719
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 10/31/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory

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

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

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

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations

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

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

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land

A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 11/04/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 17

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/31/2016
Next Scheduled EDR Contact: 10/10/2016
Data Release Frequency: No Update Planned

PART 201: Part 201 Site List

A Part 201 Listed site is a location that has been evaluated and scored by the DEQ using the Part 201 scoring model. The location is or includes a "facility" as defined by Part 201, where there has been a release of a hazardous substance(s) in excess of the Part 201 residential criteria, and/or where corrective actions have not been completed under Part 201 to meet the applicable cleanup criteria for unrestricted residential use. The Part 201 List does not include all of the sites of contamination that are subject to regulation under Part 201 because owners are not required to inform the DEQ about the sites and can pursue cleanup independently. Sites of environmental contamination that are not known to DEQ are not on the list, nor are sites with releases that resulted in low environmental impact.

Date of Government Version: 10/01/2013
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 10/03/2014
Number of Days to Update: 0

Source: Department of Environmental Quality
Telephone: 517-284-5103
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: No Update Planned

INVENTORY: Inventory of Facilities

The Inventory of Facilities has three data sources: Facilities under Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA) identified through state funded or private party response activities (Projects); Facilities under Part 213, Leaking Underground Storage Tanks of the NREPA; and Facilities identified through submittals of Baseline Environmental Assessments (BEA) submitted pursuant to Part 201 or Part 213 of the NREPA. The Part 201 Projects Inventory does not include all of the facilities that are subject to regulation under Part 201 because owners are not required to inform the Department of Environmental Quality (DEQ) about the facilities and can pursue cleanup independently. Facilities that are not known to DEQ are not on the Inventory, nor are locations with releases that resulted in low environmental impact. Part 213 facilities listed here may have more than one release; a list of releases for which corrective actions have been completed and list of releases for which corrective action has not been completed is located on the Leaking Underground Storage Tanks Site Search webpage. The DEQ may or may not have reviewed and concurred with the conclusion that the corrective actions described in a closure report meets criteria. A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

Date of Government Version: 07/26/2016
Date Data Arrived at EDR: 07/27/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 36

Source: Department of Environmental Quality
Telephone: 517-284-5136
Last EDR Contact: 10/26/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 05/11/2016
Date Data Arrived at EDR: 05/24/2016
Date Made Active in Reports: 07/05/2016
Number of Days to Update: 42

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion.

A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 08/01/2013	Telephone: 517-373-9541
Date Made Active in Reports: 09/11/2013	Last EDR Contact: 10/24/2016
Number of Days to Update: 41	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

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: 08/30/2016	Source: Drug Enforcement Administration
Date Data Arrived at EDR: 09/06/2016	Telephone: 202-307-1000
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 11/29/2016
Number of Days to Update: 17	Next Scheduled EDR Contact: 03/13/2017
	Data Release Frequency: Quarterly

Local Land Records

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: 07/07/2015	Source: Dept of Environmental Quality
Date Data Arrived at EDR: 07/24/2015	Telephone: 517-241-7603
Date Made Active in Reports: 08/05/2015	Last EDR Contact: 10/21/2016
Number of Days to Update: 12	Next Scheduled EDR Contact: 01/30/2017
	Data Release Frequency: Varies

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: 02/18/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/18/2014	Telephone: 202-564-6023
Date Made Active in Reports: 04/24/2014	Last EDR Contact: 10/28/2016
Number of Days to Update: 37	Next Scheduled EDR Contact: 02/06/2017
	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: 06/27/2016	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 06/28/2016	Telephone: 202-366-4555
Date Made Active in Reports: 09/23/2016	Last EDR Contact: 09/27/2016
Number of Days to Update: 87	Next Scheduled EDR Contact: 01/09/2017
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/01/2016
Date Data Arrived at EDR: 07/29/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 34

Source: Dept of Environmental Quality
Telephone: 517-373-8427
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Quarterly

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

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: 06/21/2016
Date Data Arrived at EDR: 06/30/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 64

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/28/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

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: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 12/08/2016
Next Scheduled EDR Contact: 03/20/2017
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: 888-275-8747
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

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: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: N/A

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 03/07/2011
Date Data Arrived at EDR: 03/09/2011
Date Made Active in Reports: 05/02/2011
Number of Days to Update: 54

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 11/28/2016
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 07/12/2016
Date Data Arrived at EDR: 08/17/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 65

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 11/16/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

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: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 09/23/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Every 4 Years

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 11/22/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

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: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 10/24/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Annually

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: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/22/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 81

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 11/18/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013	Source: EPA
Date Data Arrived at EDR: 10/17/2014	Telephone: 202-564-6023
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 11/07/2016
Number of Days to Update: 3	Next Scheduled EDR Contact: 02/20/2017
	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: 01/20/2016	Source: EPA
Date Data Arrived at EDR: 04/28/2016	Telephone: 202-566-0500
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 10/14/2016
Number of Days to Update: 127	Next Scheduled EDR Contact: 01/23/2017
	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: 07/27/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/05/2016	Telephone: 202-564-5088
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/11/2016
Number of Days to Update: 77	Next Scheduled EDR Contact: 01/23/2017
	Data Release Frequency: Quarterly

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	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	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	Source: EPA
Date Data Arrived at EDR: 04/16/2009	Telephone: 202-566-1667
Date Made Active in Reports: 05/11/2009	Last EDR Contact: 11/17/2016
Number of Days to Update: 25	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Quarterly

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: 08/30/2016	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 09/08/2016	Telephone: 301-415-7169
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 11/07/2016
Number of Days to Update: 43	Next Scheduled EDR Contact: 02/20/2017
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

COAL ASH DOE: Steam-Electric Plant Operation Data

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

Date of Government Version: 12/31/2005	Source: Department of Energy
Date Data Arrived at EDR: 08/07/2009	Telephone: 202-586-8719
Date Made Active in Reports: 10/22/2009	Last EDR Contact: 12/06/2016
Number of Days to Update: 76	Next Scheduled EDR Contact: 03/20/2017
	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: 07/01/2014	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/10/2014	Telephone: N/A
Date Made Active in Reports: 10/20/2014	Last EDR Contact: 12/06/2016
Number of Days to Update: 40	Next Scheduled EDR Contact: 03/20/2017
	Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database

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

Date of Government Version: 02/01/2011	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/19/2011	Telephone: 202-566-0517
Date Made Active in Reports: 01/10/2012	Last EDR Contact: 10/28/2016
Number of Days to Update: 83	Next Scheduled EDR Contact: 02/06/2017
	Data Release Frequency: Varies

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: 10/03/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 10/05/2016	Telephone: 202-343-9775
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 10/05/2016
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/16/2017
	Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

Date of Government Version: 10/19/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/01/2007	Telephone: 202-564-2501
Date Made Active in Reports: 04/10/2007	Last EDR Contact: 12/17/2007
Number of Days to Update: 40	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.

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: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

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

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
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: 03/31/2016
Date Data Arrived at EDR: 08/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 53

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Varies

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: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 11/23/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Biennially

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: 10/14/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 07/21/2016
Date Data Arrived at EDR: 07/26/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 59

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 11/08/2016
Next Scheduled EDR Contact: 02/20/2017
Data Release Frequency: Varies

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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 09/09/2016
Next Scheduled EDR Contact: 12/05/2016
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 03/07/2016
Date Data Arrived at EDR: 04/07/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 148

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 10/20/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931 and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 06/30/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 88

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2016
Next Scheduled EDR Contact: 01/09/2017
Data Release Frequency: Annually

US 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: 08/05/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 09/23/2016
Number of Days to Update: 22

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 12/01/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 11/29/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 12/02/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

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: 07/15/2016
Date Data Arrived at EDR: 09/07/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 65

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 12/06/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 11/28/2016
Next Scheduled EDR Contact: 03/13/2017
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 12/05/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Varies

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 09/21/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 27

Source: Dept of Environmental Quality
Telephone: 517-373-7074
Last EDR Contact: 09/19/2016
Next Scheduled EDR Contact: 01/02/2017
Data Release Frequency: Varies

BEA: Baseline Environmental Assessment Database

A BEA is a document that new or prospective property owners/operations disclose to the DEQ identifying the property as a facility pursuant to Part 201 and Part 213. The Inventory of BEA Facilities overlaps in part with the Part 201 Projects facilities and Part 213 facilities. There may be more than one BEA for each facility.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/21/2013
Date Data Arrived at EDR: 08/23/2013
Date Made Active in Reports: 09/12/2013
Number of Days to Update: 20

Source: Dept of Environmental Quality
Telephone: 517-373-9541
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

COAL ASH: Coal Ash Disposal Sites

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

Date of Government Version: 07/07/2016
Date Data Arrived at EDR: 07/18/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 45

Source: Dept of Environmental Quality
Telephone: 586-753-3754
Last EDR Contact: 06/30/2016
Next Scheduled EDR Contact: 10/17/2016
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 07/20/2016
Date Data Arrived at EDR: 07/25/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 38

Source: Dept of Environmental Quality
Telephone: 517-335-4586
Last EDR Contact: 10/17/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

LEAD CERT: Lead Safe Housing Registry

A listing of Michigan properties included in the Lead Safe Housing Registry.

Date of Government Version: 09/15/2015
Date Data Arrived at EDR: 09/16/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 14

Source: Department of Community Health
Telephone: 517-335-9699
Last EDR Contact: 12/05/2016
Next Scheduled EDR Contact: 03/20/2017
Data Release Frequency: Quarterly

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: 05/04/2016
Date Data Arrived at EDR: 07/07/2016
Date Made Active in Reports: 09/01/2016
Number of Days to Update: 56

Source: Dept of Environmental Quality
Telephone: 517-241-1300
Last EDR Contact: 10/07/2016
Next Scheduled EDR Contact: 01/16/2017
Data Release Frequency: Varies

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: 09/22/2016
Date Data Arrived at EDR: 09/22/2016
Date Made Active in Reports: 10/20/2016
Number of Days to Update: 28

Source: Dept of Environmental Quality
Telephone: 517-241-1515
Last EDR Contact: 11/07/2016
Next Scheduled EDR Contact: 02/06/2017
Data Release Frequency: Varies

WDS: Waste Data System

The Waste Data System (WDS) tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs.

Date of Government Version: 08/31/2016
Date Data Arrived at EDR: 09/01/2016
Date Made Active in Reports: 10/19/2016
Number of Days to Update: 48

Source: Dept of Environmental Quality
Telephone: 517-284-6562
Last EDR Contact: 11/17/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 06/09/2016	Source: Department of Interior
Date Data Arrived at EDR: 06/13/2016	Telephone: 202-208-2609
Date Made Active in Reports: 09/02/2016	Last EDR Contact: 12/09/2016
Number of Days to Update: 81	Next Scheduled EDR Contact: 03/27/2017
	Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 09/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 09/20/2016	Telephone: 202-564-2280
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 09/20/2016
Number of Days to Update: 31	Next Scheduled EDR Contact: 01/02/2017
	Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 08/22/2016	Source: EPA
Date Data Arrived at EDR: 08/23/2016	Telephone: 800-385-6164
Date Made Active in Reports: 10/21/2016	Last EDR Contact: 11/22/2016
Number of Days to Update: 59	Next Scheduled EDR Contact: 03/06/2017
	Data Release Frequency: Quarterly

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A	Source: EDR, Inc.
Date Data Arrived at EDR: N/A	Telephone: N/A
Date Made Active in Reports: N/A	Last EDR Contact: N/A
Number of Days to Update: N/A	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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: Varies

EDR Hist Cleaner: EDR Exclusive 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. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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 RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA PART 201: Recovered Government Archive State Hazardous Waste Facilities List

The EDR Recovered Government Archive State Hazardous Waste database provides a list of SHWS incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Environmental Quality in Michigan.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/24/2013
Number of Days to Update: 176

Source: Department of Environmental Quality
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 11/11/2016
Next Scheduled EDR Contact: 02/27/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 07/17/2015
Date Made Active in Reports: 08/12/2015
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/12/2016
Next Scheduled EDR Contact: 01/23/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

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

Date of Government Version: 08/01/2016
Date Data Arrived at EDR: 08/03/2016
Date Made Active in Reports: 09/09/2016
Number of Days to Update: 37

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 11/02/2016
Next Scheduled EDR Contact: 02/13/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 10/14/2016
Next Scheduled EDR Contact: 01/30/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 11/21/2016
Next Scheduled EDR Contact: 03/06/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 09/12/2016
Next Scheduled EDR Contact: 12/26/2016
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Oil/Gas Pipelines

Source: PennWell Corporation

Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). 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.

Electric Power Transmission Line Data

Source: PennWell Corporation

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

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

NOVI PARKS - 50500 8 MILE
50500 EAST 8 MILE
NORTHVILLE, MI 48167

TARGET PROPERTY COORDINATES

Latitude (North):	42.438775 - 42° 26' 19.59"
Longitude (West):	83.544148 - 83° 32' 38.93"
Universal Transverse Mercator:	Zone 17
UTM X (Meters):	290741.3
UTM Y (Meters):	4701416.5
Elevation:	969 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6066326 SALEM, MI
Version Date:	2014

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 principal 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).

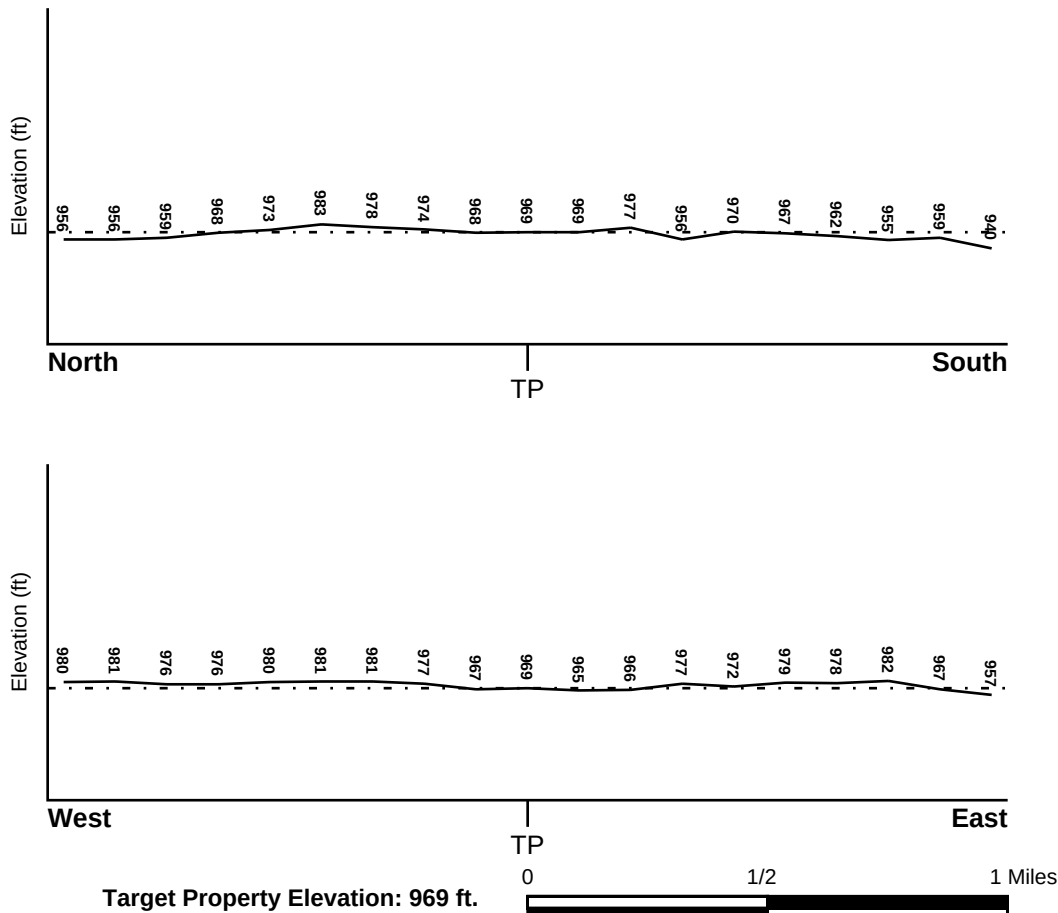
TOPOGRAPHIC INFORMATION

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 East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
26125C0608F	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
26125C0605F	FEMA FIRM Flood data
26163C0009E	FEMA FIRM Flood data
26163C0020E	FEMA FIRM Flood data
26125C0615F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
SALEM	YES - refer to the Overview Map and Detail Map

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

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

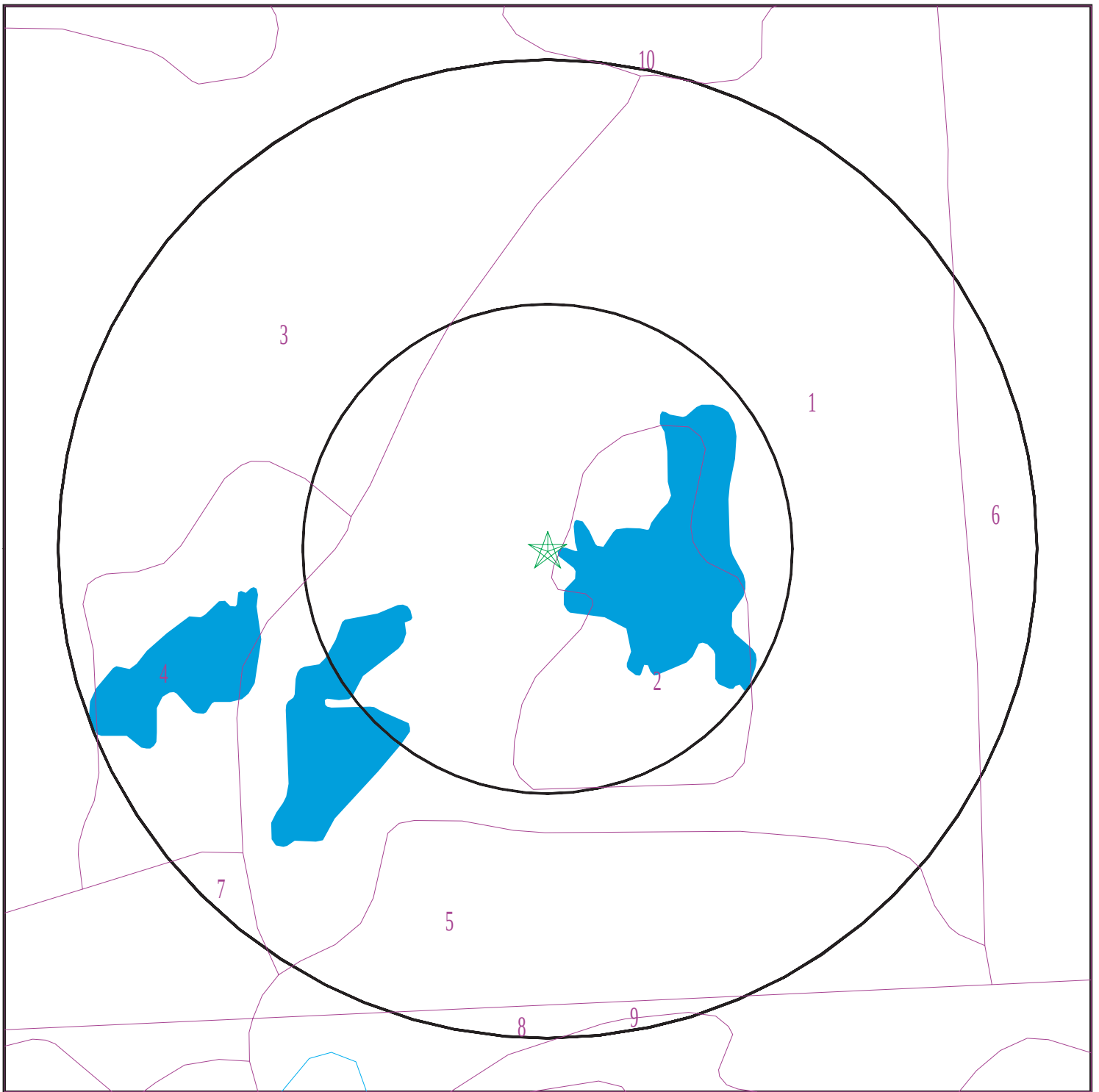
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 (<i>decoded above as Era, System & Series</i>)

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 - 4803584.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Novi Parks - 50500 8 Mile
ADDRESS: 50500 East 8 Mile
Northville MI 48167
LAT/LONG: 42.438775 / 83.544148

CLIENT: ECT
CONTACT: Dirk Mammen
INQUIRY #: 4803584.2s
DATE: December 12, 2016 10:56 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: Udipsamments

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1

Soil Map ID: 2

Soil Component Name: Pits

Soil Surface Texture: sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: Blount

Soil Surface Texture: loam

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

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 61 inches

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	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	7 inches	29 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 7.8 Min: 5.1
3	29 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 0.42	Max: 8.4 Min: 7.4

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: Capac

Soil Surface Texture: sandy loam

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

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 46 inches

Soil Layer Information							
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.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.6
2	7 inches	31 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 5.6
3	31 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 7.4

Soil Map ID: 5

Soil Component Name: Oshtemo

Soil Surface Texture: stratified sand to gravelly sand

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

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	55 inches	59 inches	stratified sand to gravelly sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 141	Max: 8.4 Min: 7.4
2	0 inches	7 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
3	7 inches	18 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.1
4	18 inches	40 inches	sandy loam	Not reported	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 42 Min: 14	Max: 6.5 Min: 5.1
5	40 inches	55 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1

Soil Map ID: 6

Soil Component Name: Fox

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

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	16 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 5.1
2	16 inches	29 inches	gravelly sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.8 Min: 6.1
3	29 inches	59 inches	gravelly sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 141 Min: 42	Max: 8.4 Min: 7.4

Soil Map ID: 7

Soil Component Name: Metamora

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: Somewhat poorly drained

Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: Moderate

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	9 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1
2	9 inches	27 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 42 Min: 14	Max: 7.3 Min: 5.1
3	27 inches	35 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 7.3 Min: 6.1
4	35 inches	59 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 1.4	Max: 8.4 Min: 6.6

Soil Map ID: 8

Soil Component Name: Boyer

Soil Surface Texture: loamy sand

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	17 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	17 inches	29 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.8 Min: 5.6
3	29 inches	59 inches	gravelly loamy sand	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 8.4 Min: 7.4

Soil Map ID: 9

Soil Component Name: Boyer

Soil Surface Texture: sandy clay 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	17 inches	29 inches	sandy clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 14 Min: 4	Max: 7.8 Min: 5.6
2	0 inches	17 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 14 Min: 4	Max: 7.3 Min: 5.6
3	29 inches	59 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 141	Max: 8.4 Min: 7.4

Soil Map ID: 10

Soil Component Name: Lenawee

Soil Surface Texture: silty clay loam

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

Soil Drainage Class: Poorly drained

Hydric Status: All hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
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	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 7.8 Min: 6.1
2	7 inches	53 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 4 Min: 1.4	Max: 7.8 Min: 6.1
3	53 inches	59 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 4 Min: 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>
H29	USGS40000481918	1/2 - 1 Mile South
J37	USGS40000481920	1/2 - 1 Mile WSW

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
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MI3000000074113	1/8 - 1/4 Mile ESE
2	MI3000000073423	1/8 - 1/4 Mile SSW
A3	MI3000000074629	1/4 - 1/2 Mile ENE
A4	MI3000000074793	1/4 - 1/2 Mile NE
B5	MI3000000073179	1/4 - 1/2 Mile SE
B6	MI3000000073123	1/4 - 1/2 Mile SE
7	MI3000000075560	1/4 - 1/2 Mile North
8	MI3000000073351	1/4 - 1/2 Mile ESE
C9	MI3000000073802	1/4 - 1/2 Mile WSW
10	MI3000000074841	1/2 - 1 Mile WNW
D11	MI3000000075750	1/2 - 1 Mile NNW
C12	MI3000000073382	1/2 - 1 Mile WSW
D13	MI3000000075748	1/2 - 1 Mile NNW
D14	MI3000000075764	1/2 - 1 Mile NNW
E15	MI3000000075339	1/2 - 1 Mile NE
E16	MI3000000075427	1/2 - 1 Mile NE
F17	MI3000000072700	1/2 - 1 Mile SSE
E18	MI3000000075374	1/2 - 1 Mile NE
D19	MI3000000075832	1/2 - 1 Mile NNW
E20	MI3000000075411	1/2 - 1 Mile NE
E21	MI3000000075430	1/2 - 1 Mile NE
D22	MI3000000075868	1/2 - 1 Mile NNW
F23	MI3000000072705	1/2 - 1 Mile SSE
24	MI3000000072910	1/2 - 1 Mile SE
E25	MI3000000075470	1/2 - 1 Mile NE
26	MI3000000076061	1/2 - 1 Mile NNW
G27	MI3000000075439	1/2 - 1 Mile NE
H28	MI3000000072431	1/2 - 1 Mile South
I30	MI3000000075257	1/2 - 1 Mile ENE
31	MI3000000072798	1/2 - 1 Mile SW
I32	MI3000000075256	1/2 - 1 Mile ENE
G33	MI3000000075425	1/2 - 1 Mile NE
J34	MI3000000073240	1/2 - 1 Mile WSW
K35	MI3000000075663	1/2 - 1 Mile NW
K36	MI3000000075809	1/2 - 1 Mile NW
38	MI3000000073405	1/2 - 1 Mile WSW
39	MI3000000075996	1/2 - 1 Mile NNW
40	MI3000000076161	1/2 - 1 Mile NNW
H41	MI3000000072329	1/2 - 1 Mile South
I42	MI3000000075415	1/2 - 1 Mile ENE
43	MI3000000076424	1/2 - 1 Mile North
44	MI3000000075551	1/2 - 1 Mile NE
45	MI3000000076443	1/2 - 1 Mile NNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
46	MI3000000076494	1/2 - 1 Mile North
47	MI3000000076389	1/2 - 1 Mile NNW
L48	MI3000000075833	1/2 - 1 Mile NE
L49	MI3000000075969	1/2 - 1 Mile NE
M50	MI3000000076619	1/2 - 1 Mile North
L51	MI3000000075902	1/2 - 1 Mile NE
52	MI3000000076560	1/2 - 1 Mile NNE
L53	MI3000000076027	1/2 - 1 Mile NE
M54	MI3000000076668	1/2 - 1 Mile North
L55	MI3000000075839	1/2 - 1 Mile NE
M56	MI3000000076695	1/2 - 1 Mile North
N57	MI3000000076383	1/2 - 1 Mile NNW
O58	MI3000000076109	1/2 - 1 Mile NE
L59	MI3000000076005	1/2 - 1 Mile NE
L60	MI3000000075911	1/2 - 1 Mile NE
O61	MI3000000076076	1/2 - 1 Mile NE
62	MI3000000076303	1/2 - 1 Mile NW
63	MI3000000076760	1/2 - 1 Mile NNW
64	MI3000000076088	1/2 - 1 Mile NE
N65	MI3000000076461	1/2 - 1 Mile NNW
O66	MI3000000076274	1/2 - 1 Mile NE
67	MI3000000074058	1/2 - 1 Mile West
68	MI3000000076457	1/2 - 1 Mile NW
P69	MI3000000071851	1/2 - 1 Mile South
Q70	MI3000000073069	1/2 - 1 Mile ESE
P71	MI3000000071827	1/2 - 1 Mile South
72	MI3000000076566	1/2 - 1 Mile NE
P73	MI3000000071840	1/2 - 1 Mile SSE
R74	MI3000000071854	1/2 - 1 Mile SSE
75	MI3000000073201	1/2 - 1 Mile ESE
P76	MI3000000071789	1/2 - 1 Mile South
S77	MI3000000076448	1/2 - 1 Mile NW
P78	MI3000000071785	1/2 - 1 Mile South
79	MI3000000077009	1/2 - 1 Mile NNE
S80	MI3000000076444	1/2 - 1 Mile NW
R81	MI3000000071749	1/2 - 1 Mile SSE
Q82	MI3000000072940	1/2 - 1 Mile ESE
83	MI3000000077168	1/2 - 1 Mile North
84	MI3000000075448	1/2 - 1 Mile ENE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

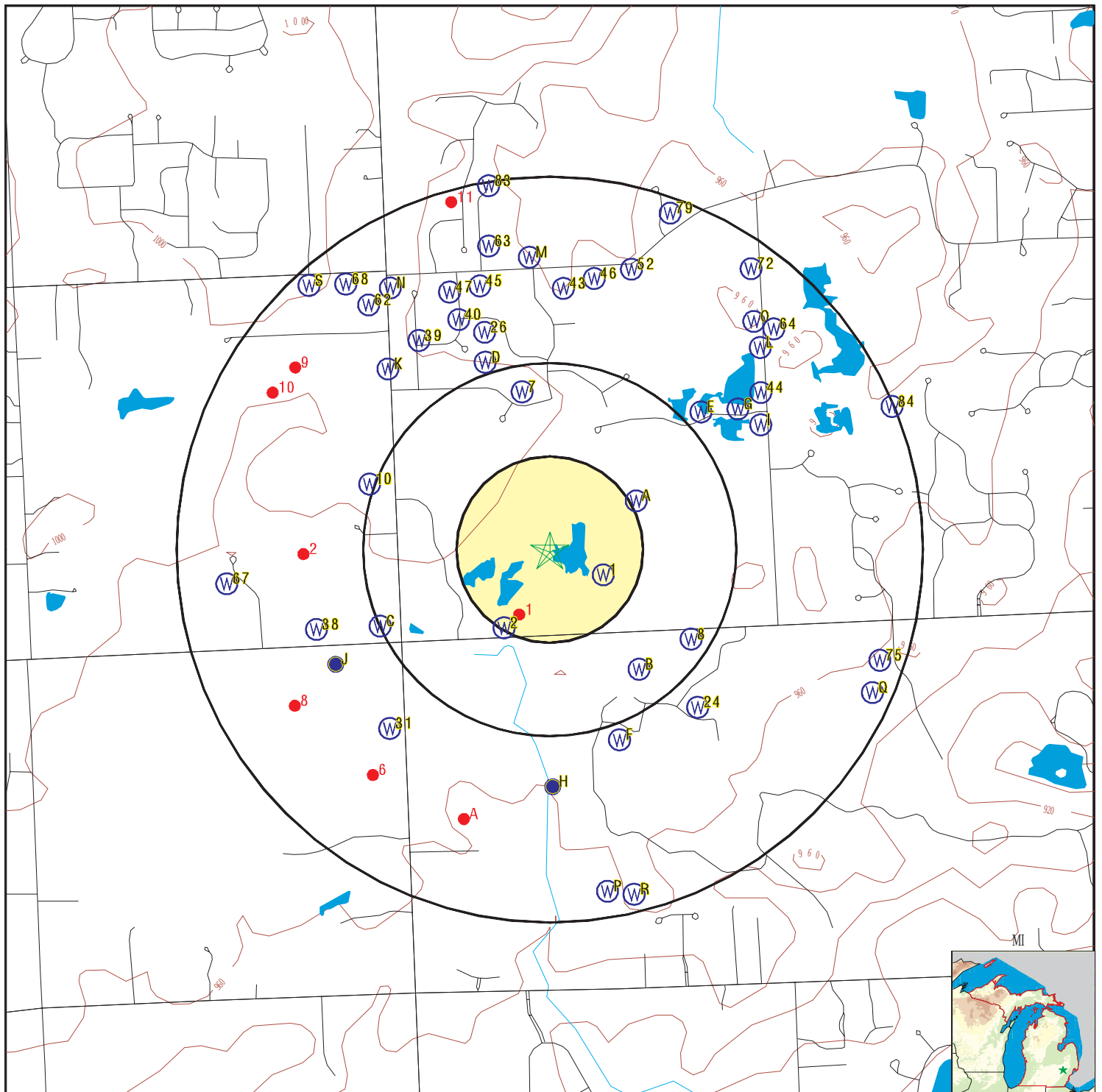
MAP ID	WELL ID	LOCATION FROM TP
1	MIOG90000045569	1/8 - 1/4 Mile SSW
2	MIOG90000045545	1/2 - 1 Mile West
A3	MIOG90000063823	1/2 - 1 Mile SSW
A5	MIOG90000063830	1/2 - 1 Mile SSW
A4	MIOG90000063829	1/2 - 1 Mile SSW
6	MIOG90000063599	1/2 - 1 Mile SW
A7	MIOG90000063711	1/2 - 1 Mile SSW
8	MIOG90000063413	1/2 - 1 Mile WSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
9	MIOG90000045572	1/2 - 1 Mile NW
10	MIOG90000045570	1/2 - 1 Mile WNW
11	MIOG90000045561	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 4803584.2s



- 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: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville MI 48167
 LAT/LONG: 42.438775 / 83.544148

CLIENT: ECT
 CONTACT: Dirk Mammen
 INQUIRY #: 4803584.2s
 DATE: December 12, 2016 10:56 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

1

ESE

1/8 - 1/4 Mile

Lower

MI WELLS

MI3000000074113

Wellid:	63000019414	Import id:	Not Reported
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	GREYSTONE BLDG.		
Well addr:	Not Reported		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1984
Const date:	2000-05-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	92		
Screen frm:	92		
Screen to:	100		
Swl:	50		
Test depth:	50		
Test hours:	2		
Test rate:	35	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	18
Latitude:	42.43779262		
Longitude:	-83.54133598		
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:	964	Elev dif:	964
Elev miv:	964	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:	25
Pct cm d:	25	Pct cm r:	0
Pct pcm:	54	Pct pcm d:	54
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:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	50	A pct aq2:	28
A pct maq2:	0	A pct pcm2:	72
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:	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:	35
Pct maq 1:	0	Pct cm 1:	65
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:	60	Pct pcm 2:	40
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:	70
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	30	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:	50		
Horiz Conduct:	28.0072		
Vert Conduct:	.01389		
T2:	1400.36		
D50plek:	119.67532		

2
SSW
1/8 - 1/4 Mile
Higher

MI WELLS MI3000000073423

Wellid:	63000022593	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	City of Novi		
Well addr:	51000 8-Mile Road		
Well depth:	108		
Well type:	Type II public		
Wssn:	2273463		
Well num:	Not Reported	Driller id:	817
Const date:	2002-06-19 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	98		
Screen frm:	98		
Screen to:	108		
Swl:	50		
Test depth:	100		
Test hours:	1		
Test rate:	60	Test methd:	Air
Grouted:	1	Pmp cpcity:	25
Latitude:	42.43573775		
Longitude:	-83.54653433		
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:	971	Elev dif:	971
Elev miv:	971	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	17		
Pct aq d:	17	Pct aq r:	0
Pct maq:	19	Pct maq d:	19
Pct maq r:	0	Pct cm:	32
Pct cm d:	32	Pct cm r:	0
Pct pcm:	19	Pct pcm d:	19
Pct pcm r:	0	Pct na:	14
Pct na d:	14	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	38	A pct aq:	47
A pct maq:	53	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	58	A pct aq2:	31
A pct maq2:	34	A pct pcm2:	34
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	0	Pct na 1:	75
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:	50
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	50
Pct cm 4:	0	Pct pcm 4:	50
Pct na 4:	0	Pct aq 5:	50
Pct maq 5:	50	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:	58		
Horiz Conduct:	9.51724		
Vert Conduct:	.28331		
T2:	552		
D50plek:	57.52636		

A3
ENE
1/4 - 1/2 Mile
Higher

MI WELLS MI3000000074629

Wellid:	63000021001	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	KEVIN WILNER STONEBROOK DEV		
Well addr:	49681 DEER RUN		
Well depth:	118		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	2001-08-08 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	114		
Screen frm:	114		
Screen to:	118		
Swl:	39		
Test depth:	117		
Test hours:	2		
Test rate:	70	Test methd:	Air
Grouted:	1	Pmp cpcity:	15
Latitude:	42.44027073		
Longitude:	-83.53933647		
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:	968	Elev dif:	968
Elev miv:	968	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	55		
Pct aq d:	55	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	34

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	34	Pct cm r:	0
Pct pcm:	11	Pct pcm d:	11
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:	65	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	79	A pct aq2:	82
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	18	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & 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:	35
Pct pcm 1:	65	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:	35
Pct maq 3:	0	Pct cm 3:	65
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	80	Pct maq 6:	0
Pct cm 6:	20	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:	79		
Horiz Conduct:	68.35445		
Vert Conduct:	.00056		
T2:	5400.0014		
D50plek:	681.01657		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A4
NE
1/4 - 1/2 Mile
Lower

MI WELLS MI3000000074793

Wellid:	63000022585	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	Kevin Wilner/Stonebrook Dev.		
Well addr:	49871 Deer Run, Lot #6		
Well depth:	205		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	2002-05-09 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	205		
Screen frm:	201		
Screen to:	204		
Swl:	43		
Test depth:	155		
Test hours:	2		
Test rate:	100	Test methd:	Air
Grouted:	1	Pmp cpcity:	15
Latitude:	42.44106439		
Longitude:	-83.5398853		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	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:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	161	A pct aq2:	46
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	54	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:	15
Pct maq 1:	0	Pct cm 1:	85
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	15	Pct maq 2:	0
Pct cm 2:	85	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	28	Pct maq 6:	0
Pct cm 6:	72	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:	27	Pct maq 8:	0
Pct cm 8:	73	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:	161		
Horiz Conduct:	137.88825		
Vert Conduct:	.00019		
T2:	22200.0087		
D50plek:	5336.79182		

B5
SE
1/4 - 1/2 Mile
Lower

MI WELLS MI3000000073179

Wellid:	82000000493	Import id:	82717806001
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	D.N.R.		
Well addr:	MAYBURY STATE PARK		
Well depth:	98		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	1974-08-02 00:00:00.000	Case type:	Unknown
Case dia:	9		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	92		
Screen frm:	92		
Screen to:	98		
Swl:	45.91		
Test depth:	35		
Test hours:	1.5		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4343089835		
Longitude:	-83.5394617125		
Methd coll:	Interpolation-Map		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	2
Elev miv:	970	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:	15
Pct cm d:	15	Pct cm r:	0
Pct pcm:	23	Pct pcm d:	23
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	52	A pct aq:	92
A pct maq:	0	A pct pcm:	0
A pct cm:	8	A pct na:	0
A thickns2:	52	A pct aq2:	92
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	8	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	25
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	75	Pct na 1:	0
Pct aq 2:	35	Pct maq 2:	0
Pct cm 2:	25	Pct pcm 2:	40
Pct na 2:	0	Pct aq 3:	50
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	52		
Horiz Conduct:	219.23078		
Vert Conduct:	.0013		
T2:	11400.0004		
D50plek:	912.97017		

B6
SE
1/4 - 1/2 Mile
Higher

MI WELLS MI3000000073123

Wellid:	82000001860	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	HK DEVELOPMENT		
Well addr:	19349 MAYBURY LANE		
Well depth:	94		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-09-05 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	84		
Screen frm:	84		
Screen to:	94		
Swl:	32		
Test depth:	94		
Test hours:	2		
Test rate:	100	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.43394437		
Longitude:	-83.53945825		
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:	968	Elev dif:	968
Elev miv:	968	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	14		
Pct aq d:	14	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	53

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	53	Pct cm r:	0
Pct pcm:	33	Pct pcm d:	33
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:	62	A pct aq2:	21
A pct maq2:	0	A pct pcm2:	50
A pct cm2:	29	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	62		
Horiz Conduct:	10.4844		
Vert Conduct:	.00029		
T2:	650.0328		
D50plek:	71.76885		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

7

North
1/4 - 1/2 Mile
Higher

MI WELLS

MI3000000075560

Wellid:	63000021024	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	J AND M ZERVOS		
Well addr:	5111 SUNDAY DRIVE		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-04-24 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	53		
Test depth:	120		
Test hours:	1		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	15
Latitude:	42.44490174		
Longitude:	-83.54558999		
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:	987	Elev dif:	987
Elev miv:	987	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	25		
Pct aq d:	25	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	50
Pct cm d:	50	Pct cm r:	0
Pct pcm:	25	Pct pcm d:	25
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:	67	A pct aq2:	45
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	55	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	50	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:	50
Pct maq 5:	0	Pct cm 5:	50
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:	67		
Horiz Conduct:	22.38811		
Vert Conduct:	.00018		
T2:	1500.0037		
D50plek:	171.15973		

8

ESE

1/4 - 1/2 Mile

Lower

MI WELLS

MI3000000073351

Wellid:	82000000494	Import id:	82717806002
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	CITY OF DETROIT		
Well addr:	50165 W. 8 MILE RD		
Well depth:	84		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	388
Const date:	1969-11-25 00:00:00.000	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	80		
Screen frm:	80		
Screen to:	84		
Swl:	40		
Test depth:	75		
Test hours:	2		
Test rate:	8	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4353000442		
Longitude:	-83.5367294996		
Methd coll:	Interpolation-Map		
Elevation:	972		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	8
Elev miv:	972	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	75		
Pct aq d:	75	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:	24	Pct pcm d:	24
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:	9	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:	55
A pct maq2:	0	A pct pcm2:	45
A pct cm2:	0	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:	95
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	5
Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	75
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	25	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	75
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:	44		
Horiz Conduct:	54.54591		
Vert Conduct:	.0022		
T2:	2400.02		
D50plek:	175.54151		

C9 WSW 1/4 - 1/2 Mile Higher

MI WELLS MI3000000073802

Wellid:	63000001573	Import id:	63017736021
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	RAMMEL, GREGG		
Well addr:	20825 NAPIER		
Well depth:	194		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	111
Const date:	1969-09-26 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	65		
Test depth:	0		
Test hours:	0		
Test rate:	6	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4360534083		
Longitude:	-83.5527044311		
Methd coll:	Interpolation-Map		
Elevation:	980		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	9
Elev miv:	980	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	12		
Pct aq d:	12	Pct aq r:	0
Pct maq:	15	Pct maq d:	15
Pct maq r:	0	Pct cm:	53

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	53	Pct cm r:	0
Pct pcm:	19	Pct pcm d:	19
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	15	Pct maq 4:	0
Pct cm 4:	85	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	10
Pct maq 5:	0	Pct cm 5:	90
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	64	Pct maq 6:	4
Pct cm 6:	32	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	56	Pct cm 7:	0
Pct pcm 7:	44	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

10
WNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000074841

Wellid:	63000001571	Import id:	63017736019
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	JONES, EDWARD		
Well addr:	21405 NAPIER		
Well depth:	92		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1972-12-17 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	92		
Screen frm:	88		
Screen to:	92		
Swl:	58		
Test depth:	59		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4413179509		
Longitude:	-83.5535798371		
Methd coll:	Interpolation-Map		
Elevation:	990		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	984	Elev dif:	6
Elev miv:	990	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	7		
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	93
Pct cm d:	93	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:	6	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	34	A pct aq2:	18
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	82	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:	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:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	34		
Horiz Conduct:	8.82361		
Vert Conduct:	.00012		
T2:	300.0028		
D50plek:	18.96409		

**D11
NNW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000075750

Wellid:	63000020710	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	TOM STARK AND CHERYL BEMER		
Well addr:	50880 APPLEBROOKE		
Well depth:	119		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2001-05-21 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	109		
Screen frm:	109		
Screen to:	119		
Swl:	55		
Test depth:	119		
Test hours:	1		
Test rate:	35	Test methd:	Air
Grouted:	1	Pmp cpcity:	12
Latitude:	42.44587453		
Longitude:	-83.54718724		
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:	981	Elev dif:	981
Elev miv:	981	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:	76
Pct cm d:	76	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:	28	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	64	A pct aq2:	44
A pct maq2:	0	A pct pcm2:	0
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:	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:	45
Pct maq 5:	0	Pct cm 5:	55
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:	64		
Horiz Conduct:	43.75006		
Vert Conduct:	.00018		
T2:	2800.0036		
D50plek:	295.56623		

C12 WSW 1/2 - 1 Mile Higher

MI WELLS MI3000000073382

Wellid:	63000001572	Import id:	63017736020
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	DIETRICH, EDWARD		
Well addr:	51450 EIGHT MILE RD		
Well depth:	78		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1977-03-17 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	74		
Screen frm:	74		
Screen to:	78		
Swl:	44		
Test depth:	60		
Test hours:	4		
Test rate:	6	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4355556066		
Longitude:	-83.5533500829		
Methd coll:	Interpolation-Map		
Elevation:	975		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	7
Elev miv:	975	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:	97

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	97	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:	4	A pct aq:	50
A pct maq:	0	A pct pcm:	0
A pct cm:	50	A pct na:	0
A thickns2:	34	A pct aq2:	6
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	94	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Clay
A sc lmod1:	Not Reported	A sc lmaq1:	CM
A sc lpct1:	50	A sc lith2:	Sand
A sc lmod2:	Not Reported	A sc lmaq2:	AQ
A sc lpct2:	50	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:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	34		
Horiz Conduct:	2.94127		
Vert Conduct:	.00011		
T2:	100.0032		
D50plek:	6.7435		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

D13
NNW
1/2 - 1 Mile
Higher

MI WELLS

MI3000000075748

Wellid:	63000021402	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	TIM HAHN		
Well addr:	22192 HILLSIDE DRIVE		
Well depth:	133		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-05-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	129		
Screen frm:	129		
Screen to:	133		
Swl:	59		
Test depth:	133		
Test hours:	1		
Test rate:	45	Test methd:	Air
Grouted:	1	Pmp cpcity:	15
Latitude:	42.445871		
Longitude:	-83.547929		
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:	981	Elev dif:	981
Elev miv:	981	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	14		
Pct aq d:	14	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	86
Pct cm d:	86	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	18	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	74	A pct aq2:	24
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	76	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine To Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	40	Pct maq 6:	0
Pct cm 6:	60	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:	74		
Horiz Conduct:	12.16224		
Vert Conduct:	.00013		
T2:	900.0056		
D50plek:	116.53166		

**D14
NNW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000075764

Wellid:	63000022386	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	J & M ZERVOS		
Well addr:	22257 HILLSIDE DRIVE		
Well depth:	129		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-05-07 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	121		
Screen frm:	121		
Screen to:	129		
Swl:	54		
Test depth:	129		
Test hours:	1		
Test rate:	75	Test methd:	Air
Grouted:	1	Pmp cpcity:	15
Latitude:	42.445918		
Longitude:	-83.547773		
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:	981	Elev dif:	981
Elev miv:	981	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	22		
Pct aq d:	22	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	67
Pct cm d:	67	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:	29	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	75	A pct aq2:	39
A pct maq2:	0	A pct pcm2:	17
A pct cm2:	44	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	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:	35
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:	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:	75		
Horiz Conduct:	19.33355		
Vert Conduct:	.00022		
T2:	1450.0163		
D50plek:	185.5399		

E15
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075339

Wellid:	63000018619	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	HOMETOWNE BUILDERS		
Well addr:	49551 DEER RUN		
Well depth:	81		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	2000-03-24 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	72		
Screen frm:	73		
Screen to:	81		
Swl:	45		
Test depth:	65		
Test hours:	2		
Test rate:	33	Test methd:	Air
Grouted:	1	Pmp cpcity:	18
Latitude:	42.44375853		
Longitude:	-83.53618975		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	54		
Pct aq d:	54	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	46

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	46	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:	36	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	36	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	15	Pct maq 2:	0
Pct cm 2:	85	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	36		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	3600		
D50plek:	211.0769		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

E16

NE

**1/2 - 1 Mile
Lower**

MI WELLS

MI3000000075427

Wellid:	63000002632	Import id:	63017831012
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	CARROLL, RICHARD		
Well addr:	49590 DEER RUN		
Well depth:	94		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1996-06-24 00:00:00.000	Case type:	Steel-black
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:	0	Pmp cpcity:	0
Latitude:	42.4441978408		
Longitude:	-83.5366251688		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	68		
Pct aq d:	68	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	19
Pct cm d:	19	Pct cm r:	0
Pct pcm:	13	Pct pcm d:	13
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	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:	75
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	25	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	85	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	15
Pct na 2:	0	Pct aq 3:	85
Pct maq 3:	0	Pct cm 3:	15
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:	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		

F17
SSE
1/2 - 1 Mile
Higher

MI WELLS MI3000000072700

Wellid:	82000000495	Import id:	82717806003
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	D.N.R.		
Well addr:	MAYBURY STATE PARK		
Well depth:	192		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	1970-08-24 00:00:00.000	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	187		
Screen frm:	187		
Screen to:	192		
Swl:	85		
Test depth:	0		
Test hours:	1		
Test rate:	15	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4313767661		
Longitude:	-83.5409197369		
Methd coll:	Interpolation-Map		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	1
Elev miv:	970	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	45		
Pct aq d:	45	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	4
Pct cm d:	4	Pct cm r:	0
Pct pcm:	51	Pct pcm d:	51
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:	50	A pct aq:	82
A pct maq:	0	A pct pcm:	18
A pct cm:	0	A pct na:	0
A thickns2:	107	A pct aq2:	61
A pct maq2:	0	A pct pcm2:	33
A pct cm2:	7	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	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:	35
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	65	Pct na 5:	0
Pct aq 6:	36	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	64
Pct na 6:	0	Pct aq 7:	40
Pct maq 7:	0	Pct cm 7:	28
Pct pcm 7:	32	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:	107		
Horiz Conduct:	24.06575		
Vert Conduct:	.00102		
T2:	2575.0357		
D50plek:	456.37863		

E18
NE
1/2 - 1 Mile
Lower

MI WELLS

MI3000000075374

Wellid:	63000018540	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	DONNA MELONIA & ASSOCIATES		
Well addr:	49650 DEER RUN		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	2000-08-07 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	92		
Screen frm:	92		
Screen to:	100		
Swl:	50		
Test depth:	80		
Test hours:	2		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.44395609		
Longitude:	-83.53628741		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	39		
Pct aq d:	39	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	34

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	34	Pct cm r:	0
Pct pcm:	27	Pct pcm d:	27
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:	50	A pct aq2:	78
A pct maq2:	0	A pct pcm2:	22
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:	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:	40
Pct pcm 1:	60	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:	30
Pct pcm 3:	70	Pct na 3:	0
Pct aq 4:	95	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	5
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	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:	50		
Horiz Conduct:	78.00022		
Vert Conduct:	.00455		
T2:	3900.011		
D50plek:	316.32998		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

D19
NNW
1/2 - 1 Mile
Higher

MI WELLS

MI3000000075832

Wellid:	63000018085	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	JRS MASTER BUILDING		
Well addr:	50940 PARK PLACE DRIVE		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2001-05-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	61		
Test depth:	120		
Test hours:	1		
Test rate:	60	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	42.446198		
Longitude:	-83.547416		
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:	58		
Pct aq d:	58	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	42
Pct cm d:	42	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:	59	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	59	A pct aq2:	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:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	50
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	100
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	59		
Horiz Conduct:	114.40678		
Vert Conduct:	68.07692		
T2:	6750		
D50plek:	628.89541		

**E20
NE
1/2 - 1 Mile
Lower**

MI WELLS MI3000000075411

Wellid:	63000002630	Import id:	63017831010
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	CARROLL, RICHARD		
Well addr:	49590 DEER RUN		
Well depth:	119		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1996-07-09 00:00:00.000	Case type:	Other
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	110		
Screen frm:	111		
Screen to:	119		
Swl:	55		
Test depth:	100		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4440949459		
Longitude:	-83.536415339		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	31		
Pct aq d:	31	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:	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:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	64	A pct aq2:	22
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	78	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:	40
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	60	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:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	64		
Horiz Conduct:	10.93758		
Vert Conduct:	.00013		
T2:	700.005		
D50plek:	79.4582		

E21
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075430

Wellid:	63000002631	Import id:	63017831011
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	CARROLL, RICHARD		
Well addr:	49590 DEER RUN		
Well depth:	246		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1996-07-01 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:	42.4442321972		
Longitude:	-83.5364098059		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	36

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	36	Pct cm r:	0
Pct pcm:	46	Pct pcm d:	46
Pct pcm r:	0	Pct na:	8
Pct na d:	8	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:	60
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	40
Pct aq 2:	40	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	60	Pct aq 3:	10
Pct maq 3:	0	Pct cm 3:	90
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:	12	Pct maq 6:	0
Pct cm 6:	32	Pct pcm 6:	56
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:	100
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	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

D22
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000075868

Wellid:	63000021137	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	GINO SILVESTRI		
Well addr:	22226 HILLSIDE COURT		
Well depth:	118		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-12-19 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	110		
Screen frm:	110		
Screen to:	118		
Swl:	56		
Test depth:	118		
Test hours:	1		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.446388		
Longitude:	-83.547322		
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:	16		
Pct aq d:	16	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	84
Pct cm d:	84	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:	19	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	62	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
A sc lmod1:	Fine To Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	5
Pct maq 5:	0	Pct cm 5:	95
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:	62		
Horiz Conduct:	7.66136		
Vert Conduct:	.00014		
T2:	475.0043		
D50plek:	53.3575		

**F23
SSE
1/2 - 1 Mile
Higher**

MI WELLS MI3000000072705

Wellid:	82000000497	Import id:	82717806005
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	STATE OF MICHIGAN		
Well addr:	MAYBURY STATE PARK		
Well depth:	102		
Well type:	Public		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	1974-07-07 00:00:00.000	Case type:	Unknown
Case dia:	4		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	98		
Screen frm:	98		
Screen to:	102		
Swl:	51.4		
Test depth:	43		
Test hours:	.699999988079071		
Test rate:	9	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4313950361		
Longitude:	-83.5400456508		
Methd coll:	Interpolation-Map		
Elevation:	972		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	971	Elev dif:	1
Elev miv:	972	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	4		
Pct aq d:	4	Pct aq r:	0
Pct maq:	29	Pct maq d:	29
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:	4	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:	8
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	92	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	100	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	50
Pct cm 2:	50	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:	10
Pct maq 5:	0	Pct cm 5:	90
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:	51		
Horiz Conduct:	1.96088		
Vert Conduct:	.00011		
T2:	100.0047		
D50plek:	10.11539		

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

MI WELLS

MI3000000072910

Wellid:	82000000496	Import id:	82717806004
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	D.N.R.		
Well addr:	MAYBURY STATE PARK		
Well depth:	78.3		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
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:	42.4326486213		
Longitude:	-83.5363862339		
Methd coll:	Interpolation-Map		
Elevation:	972		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	968	Elev dif:	4
Elev miv:	972	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	22		
Pct aq d:	22	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	0	Pct cm r:	0
Pct pcm:	78	Pct pcm d:	78
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	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

E25

NE

1/2 - 1 Mile

Lower

MI WELLS

MI3000000075470

Wellid:	63000002633	Import id:	63017831013
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	CASE, JOE		
Well addr:	49540 DEER RUN		
Well depth:	79		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1996-06-24 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	75		
Screen frm:	75		
Screen to:	79		
Swl:	50		
Test depth:	70		
Test hours:	2		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4444709347		
Longitude:	-83.53537659		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	1
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	68		
Pct aq d:	68	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	32
Pct cm d:	32	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:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	29	A pct aq2:	72
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	28	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:	15
Pct maq 1:	0	Pct cm 1:	85
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	100	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	85
Pct maq 3:	0	Pct cm 3:	15
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	70	Pct maq 4:	0
Pct cm 4:	30	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:	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:	29		
Horiz Conduct:	217.24141		
Vert Conduct:	.00036		
T2:	6300.0008		
D50plek:	289.4765		

26
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000076061

Wellid:	63000019903	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	DOUG NECCI		
Well addr:	50850 APPLEBROOKE DR		
Well depth:	118		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1749
Const date:	2001-11-05 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	104		
Screen frm:	104		
Screen to:	118		
Swl:	51		
Test depth:	54		
Test hours:	1		
Test rate:	30	Test methd:	Test Pump
Grouted:	1	Pmp cpcity:	18
Latitude:	42.4472114		
Longitude:	-83.54755634		
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:	974	Elev dif:	974
Elev miv:	974	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	53		
Pct aq d:	53	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	33
Pct cm d:	33	Pct cm r:	0
Pct pcm:	14	Pct pcm d:	14
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	.600000023841858
A thicknes:	67	A pct aq:	94
A pct maq:	0	A pct pcm:	6
A pct cm:	0	A pct na:	0
A thickns2:	67	A pct aq2:	94
A pct maq2:	0	A pct pcm2:	6
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:	Water Bearing	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	95	Pct pcm 2:	5
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:	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:	T		
Athk2:	67		
Horiz Conduct:	94.03045		
Vert Conduct:	.16724		
T2:	6300.04		
D50plek:	668.79449		

G27
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075439

Wellid:	63000002634	Import id:	63017831014
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	THURBER, MATTHEW		
Well addr:	49490 DEER RUN		
Well depth:	82		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	169
Const date:	1995-10-31 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	74		
Screen frm:	74		
Screen to:	82		
Swl:	50		
Test depth:	70		
Test hours:	2		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4442798391		
Longitude:	-83.5346899514		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	4
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	67		
Pct aq d:	67	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	16

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	16	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:	32	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	32	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	45
Pct maq 1:	0	Pct cm 1:	55
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	20	Pct maq 2:	0
Pct cm 2:	10	Pct pcm 2:	70
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	32		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	3200		
D50plek:	167.76278		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

H28
South
1/2 - 1 Mile
Lower

MI WELLS

MI3000000072431

Wellid:	82000000498	Import id:	82717806006
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	STATE OF MICHIGAN-DNR		
Well addr:	MAYBURY STATE PARK		
Well depth:	189		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	522
Const date:	1978-08-02 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	184		
Screen frm:	184		
Screen to:	189		
Swl:	48		
Test depth:	100		
Test hours:	0		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4298217576		
Longitude:	-83.5440380007		
Methd coll:	Interpolation-Map		
Elevation:	963		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	5
Elev miv:	963	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	9	Pct maq d:	9
Pct maq r:	0	Pct cm:	35
Pct cm d:	35	Pct cm r:	0
Pct pcm:	46	Pct pcm d:	46
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	24	A pct aq:	25
A pct maq:	0	A pct pcm:	71
A pct cm:	4	A pct na:	0
A thickns2:	141	A pct aq2:	5
A pct maq2:	4	A pct pcm2:	51
A pct cm2:	40	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:	80	A sc lith2:	Clay
A sc lmod2:	Not Reported	A sc lmaq2:	CM
A sc lpct2:	20	Pct aq 1:	45
Pct maq 1:	0	Pct cm 1:	55
Pct pcm 1:	0	Pct na 1:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 2:	15	Pct maq 2:	55
Pct cm 2:	0	Pct pcm 2:	30
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	10
Pct pcm 3:	90	Pct na 3:	0
Pct aq 4:	5	Pct maq 4:	0
Pct cm 4:	95	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	20	Pct cm 5:	65
Pct pcm 5:	15	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	8
Pct cm 6:	0	Pct pcm 6:	92
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	24
Pct pcm 7:	76	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:	141		
Horiz Conduct:	2.50342		
Vert Conduct:	.00023		
T2:	352.9816		
D50plek:	91.68422		

H29
South
1/2 - 1 Mile
Lower

FED USGS USGS40000481918

Org. Identifier:	USGS-MI		
Formal name:	USGS Michigan Water Science Center		
Monloc Identifier:	USGS-422547083323801		
Monloc name:	01S 08E 06BDD01 WAYNE		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	04090004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.4297574
Longitude:	-83.5438261	Sourcemap scale:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Horiz Acc measure:	1	Horiz Acc measure units:	seconds
Horiz Collection method:	Interpolated from map		
Horiz coord refs:	NAD83	Vert measure val:	Not Reported
Vert measure units:	Not Reported	Vertacc measure val:	Not Reported
Vert accmeasure units:	Not Reported		
Vertcollection method:	Not Reported		
Vert coord refs:	Not Reported	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Sand and Gravel		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	183
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

**I30
ENE
1/2 - 1 Mile
Higher**

MI WELLS MI3000000075257

Wellid:	63000002637	Import id:	63017831017
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	REICKER, RALPH		
Well addr:	21591 GARFIELD		
Well depth:	66		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	944
Const date:	1978-10-03 00:00:00.000	Case type:	Unknown
Case dia:	2		
Case depth:	62.5		
Screen frm:	62.5		
Screen to:	66		
Swl:	45		
Test depth:	0		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.4433735086		
Longitude:	-83.5332981808		
Methd coll:	*U		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	2
Elev miv:	970	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	38		
Pct aq d:	38	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	3	Pct cm r:	0
Pct pcm:	8	Pct pcm d:	8
Pct pcm r:	0	Pct na:	5
Pct na d:	5	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	21	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	100
A thickns2:	21	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	100
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:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	60
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	25	Pct na 1:	15
Pct aq 2:	65	Pct maq 2:	0
Pct cm 2:	10	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:	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

31
SW
1/2 - 1 Mile
Higher

MI WELLS MI3000000072798

Wellid:	81000002242	Import id:	81717701002
County:	Washtenaw	Township:	Salem
Town range:	01S 07E	Section:	1
Owner name:	MOORE, RALPH		
Well addr:	967 NAPIER RD.		
Well depth:	72		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1969-01-10 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	68		
Screen frm:	68		
Screen to:	72		
Swl:	45		
Test depth:	54		
Test hours:	2		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.431827005		
Longitude:	-83.5525288537		
Methd coll:	Interpolation-Map		
Elevation:	971		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	3
Elev miv:	971	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	14		
Pct aq d:	14	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	86
Pct cm d:	86	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:	27	A pct aq2:	37
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	63	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:	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:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	27		
Horiz Conduct:	18.51858		
Vert Conduct:	.00016		
T2:	500.0017		
D50plek:	24.38972		

I32
ENE
1/2 - 1 Mile
Higher

MI WELLS MI3000000075256

Wellid:	63000002636	Import id:	63017831016
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	RIECKER RALPH		
Well addr:	21591 GARFIELD		
Well depth:	85		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	388
Const date:	1987-09-17 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	81		
Screen frm:	81		
Screen to:	85		
Swl:	40		
Test depth:	60		
Test hours:	2		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4433618687		
Longitude:	-83.5331571735		
Methd coll:	*U		
Elevation:	975		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	7
Elev miv:	975	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	55		
Pct aq d:	55	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	35
Pct cm d:	35	Pct cm r:	0
Pct pcm:	9	Pct pcm d:	9
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	20	A pct aq:	60
A pct maq:	0	A pct pcm:	40
A pct cm:	0	A pct na:	0
A thickns2:	45	A pct aq2:	27
A pct maq2:	0	A pct pcm2:	18
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:	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:	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:	25	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:	35	Pct maq 4:	0
Pct cm 4:	25	Pct pcm 4:	40
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:	45		
Horiz Conduct:	13.33517		
Vert Conduct:	.00018		
T2:	600.0825		
D50plek:	48.29822		

G33
NE
1/2 - 1 Mile
Higher

MI WELLS

MI3000000075425

Wellid:	63000002635	Import id:	63017831015
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	CHAVERIAT, MARK		
Well addr:	49450 DEER RUN		
Well depth:	76		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1995-10-31 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	67		
Screen frm:	68		
Screen to:	76		
Swl:	50		
Test depth:	62		
Test hours:	2		
Test rate:	17	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.444193277		
Longitude:	-83.5338685619		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	8
Elev miv:	960	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:	17

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	17	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:	26	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	26	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	45
Pct maq 1:	0	Pct cm 1:	55
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	20	Pct maq 2:	0
Pct cm 2:	10	Pct pcm 2:	70
Pct na 2:	0	Pct aq 3:	100
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	26		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	2600		
D50plek:	111.91605		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database

EDR ID Number

J34
WSW
1/2 - 1 Mile
Higher

MI WELLS

MI3000000073240

Wellid:	81000002241	Import id:	81717701001
County:	Washtenaw	Township:	Salem
Town range:	01S 07E	Section:	1
Owner name:	PAUL GIANNOLA		
Well addr:	22304 CONNEMERA		
Well depth:	248		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	111
Const date:	1969-10-29 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	0		
Screen to:	0		
Swl:	60		
Test depth:	0		
Test hours:	0		
Test rate:	7	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4347191182		
Longitude:	-83.55550986		
Methd coll:	Interpolation-Map		
Elevation:	969		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	1
Elev miv:	969	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:	92
Pct cm d:	92	Pct cm r:	0
Pct pcm:	4	Pct pcm d:	4
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:	20
Pct maq 1:	0	Pct cm 1:	80
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:	60
Pct pcm 5:	40	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	96	Pct pcm 6:	4
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:	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		

**K35
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000075663

Wellid:	63000022100	Import id:	Not Reported
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	LARRY COLE		
Well addr:	22005 NAPIER RD		
Well depth:	123		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-07-24 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Case depth:	113		
Screen frm:	113		
Screen to:	123		
Swl:	90		
Test depth:	123		
Test hours:	1		
Test rate:	40	Test methd:	Air
Grouted:	1	Pmp cpcity:	12
Latitude:	42.44546688		
Longitude:	-83.55299065		
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:	987	Elev dif:	987
Elev miv:	987	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	90
Pct cm d:	90	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:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	33	A pct aq2:	36
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	64	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	33		
Horiz Conduct:	18.18188		
Vert Conduct:	.00016		
T2:	600.0021		
D50plek:	35.41421		

**K36
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000075809

Wellid:	63000022390	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	SOUTH HILL CONSTRUCTION		
Well addr:	Not Reported		
Well depth:	148		
Well type:	Irrigation		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-06-25 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	140		
Screen frm:	140		
Screen to:	148		
Swl:	62		
Test depth:	148		
Test hours:	1		
Test rate:	100	Test methd:	Air
Grouted:	1	Pmp cpcity:	50
Latitude:	42.446111		
Longitude:	-83.552257		
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:	984	Elev dif:	984
Elev miv:	984	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:	74

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct cm d:	74	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	2
Pct na d:	2	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	37	A pct aq:	95
A pct maq:	0	A pct pcm:	0
A pct cm:	5	A pct na:	0
A thickns2:	86	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:	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:	85
Pct pcm 1:	0	Pct na 1:	15
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:	48	Pct maq 6:	0
Pct cm 6:	52	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:	86		
Horiz Conduct:	45.3489		
Vert Conduct:	.00017		
T2:	3900.0051		
D50plek:	544.08678		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

J37
WSW
1/2 - 1 Mile
Higher

FED USGS USGS40000481920

Org. Identifier:	USGS-MI		
Formal name:	USGS Michigan Water Science Center		
Monloc Identifier:	USGS-422602083331901		
Monloc name:	01S07E01AABA01		
Monloc type:	Well		
Monloc desc:	Not Reported		
Huc code:	04090004	Drainagearea value:	Not Reported
Drainagearea Units:	Not Reported	Contrib drainagearea:	Not Reported
Contrib drainagearea units:	Not Reported	Latitude:	42.433924
Longitude:	-83.5552153	Sourcemap scale:	Not Reported
Horiz Acc measure:	1	Horiz Acc measure units:	minutes
Horiz Collection method:	Interpolated from map		
Horiz coord refsys:	NAD83	Vert measure val:	975
Vert measure units:	feet	Vertacc measure val:	10
Vert accmeasure units:	feet		
Vertcollection method:	Reported		
Vert coord refsys:	NGVD29	Countrycode:	US
Aquifername:	Sand and gravel aquifers (glaciated regions)		
Formation type:	Pleistocene Series		
Aquifer type:	Not Reported		
Construction date:	Not Reported	Welldepth:	248
Welldepth units:	ft	Wellholedepth:	Not Reported
Wellholedepth units:	Not Reported		

Ground-water levels, Number of Measurements: 0

38
WSW
1/2 - 1 Mile
Higher

MI WELLS MI3000000073405

Wellid:	63000018986	Import id:	Not Reported
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	L. A. HOMES		
Well addr:	21142 HUNTER RIDGE		
Well depth:	108		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2000-03-21 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	100		
Screen frm:	100		
Screen to:	108		
Swl:	55		
Test depth:	108		
Test hours:	2		
Test rate:	35	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.43567217		
Longitude:	-83.55636803		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	968	Elev dif:	968
Elev miv:	968	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	11		
Pct aq d:	11	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	89
Pct cm d:	89	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:	53	A pct aq2:	19
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	81	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:	10
Pct maq 1:	0	Pct cm 1:	90
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:	10
Pct maq 5:	0	Pct cm 5:	90
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	53		
Horiz Conduct:	18.86801		
Vert Conduct:	.00012		
T2:	1000.0043		
D50plek:	92.21441		

39
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000075996

Wellid:	63000021950	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	DAVID FORCE		
Well addr:	22172 HILLSIDE		
Well depth:	130		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-05-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	120		
Screen frm:	120		
Screen to:	130		
Swl:	52		
Test depth:	130		
Test hours:	2		
Test rate:	18	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.44689547		
Longitude:	-83.55099903		
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:	21		
Pct aq d:	21	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	79
Pct cm d:	79	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:	78	A pct aq2:	35

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	65	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	88	Pct maq 6:	0
Pct cm 6:	12	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:	78		
Horiz Conduct:	34.61545		
Vert Conduct:	.00015		
T2:	2700.0051		
D50plek:	347.99602		

40
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000076161

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000020144	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	KROL BUILDING COMPANY		
Well addr:	22232 HILLSIDE DR.		
Well depth:	150		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2001-11-05 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	140		
Screen frm:	140		
Screen to:	150		
Swl:	100		
Test depth:	150		
Test hours:	2		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	10
Latitude:	42.44770983		
Longitude:	-83.54890864		
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:	974	Elev dif:	974
Elev miv:	974	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	7		
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	27
Pct cm d:	27	Pct cm r:	0
Pct pcm:	67	Pct pcm d:	67
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	50	A pct aq2:	20
A pct maq2:	0	A pct pcm2:	40
A pct cm2:	40	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	20	Pct pcm 6:	80
Pct na 6:	0	Pct aq 7:	40
Pct maq 7:	0	Pct cm 7:	60
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:	50		
Horiz Conduct:	20.00404		
Vert Conduct:	.00025		
T2:	1000.202		
D50plek:	87.01101		

H41 South 1/2 - 1 Mile Lower

MI WELLS MI3000000072329

Wellid:	82000000499	Import id:	82717806007
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	D.N.R.		
Well addr:	MAYBURY STATE PARK		
Well depth:	183		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	522
Const date:	1978-08-02 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	176		
Screen frm:	179		
Screen to:	183		
Swl:	999.99		
Test depth:	100		
Test hours:	0		
Test rate:	10	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4291303716		
Longitude:	-83.5441017549		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	954	Elev dif:	6
Elev miv:	960	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:	14
Pct cm d:	14	Pct cm r:	0
Pct pcm:	65	Pct pcm d:	65
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Clay
A sc lmod1:	Not Reported	A sc lmaq1:	CM
A sc lpct1:	50	A sc lith2:	Gravel & Sand
A sc lmod2:	Not Reported	A sc lmaq2:	AQ
A sc lpct2:	50	Pct aq 1:	80
Pct maq 1:	0	Pct cm 1:	20
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	25	Pct maq 2:	0
Pct cm 2:	30	Pct pcm 2:	45
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:	5	Pct maq 4:	0
Pct cm 4:	20	Pct pcm 4:	75
Pct na 4:	0	Pct aq 5:	30
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	70	Pct na 5:	0
Pct aq 6:	4	Pct maq 6:	0
Pct cm 6:	12	Pct pcm 6:	84
Pct na 6:	0	Pct aq 7:	8
Pct maq 7:	0	Pct cm 7:	24
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

I42
ENE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075415

Wellid:	63000017028	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	JANET THURBER		
Well addr:	49449 DEER RUN		
Well depth:	78		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	2002-12-12 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	70		
Screen frm:	70		
Screen to:	78		
Swl:	50		
Test depth:	70		
Test hours:	2		
Test rate:	10	Test methd:	Air
Grouted:	1	Pmp cpcity:	10
Latitude:	42.44412814		
Longitude:	-83.53278551		
Methd coll:	Address Matching-House Number		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	1
Elev miv:	965	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	49		
Pct aq d:	49	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	29
Pct cm d:	29	Pct cm r:	0
Pct pcm:	22	Pct pcm d:	22
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:	16	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	28	A pct aq2:	57

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	43
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:	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	10	Pct maq 2:	0
Pct cm 2:	90	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	25
Pct pcm 3:	75	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	28		
Horiz Conduct:	28.61429		
Vert Conduct:	.23271		
T2:	801.2		
D50plek:	39.49861		

43
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000076424

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000021051	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	TERRY GIBNEY		
Well addr:	51132 SUNDAY DR		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-11-21 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	107		
Screen frm:	107		
Screen to:	117		
Swl:	50		
Test depth:	110		
Test hours:	2		
Test rate:	20	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.44891921		
Longitude:	-83.54342501		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	9		
Pct aq d:	9	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	74
Pct cm d:	74	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:	11	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	67	A pct aq2:	16
A pct maq2:	0	A pct pcm2:	30
A pct cm2:	54	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:	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:	50	Pct pcm 4:	50
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	50
Pct pcm 5:	50	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:	67		
Horiz Conduct:	8.20931		
Vert Conduct:	.00018		
T2:	550.0236		
D50plek:	66.22801		

44
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075551

Wellid:	63000002628	Import id:	63017831008
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	DAZY, MICHAEL		
Well addr:	21791 GARFIELD		
Well depth:	75		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1710
Const date:	1996-06-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	68		
Screen frm:	67		
Screen to:	75		
Swl:	50		
Test depth:	68		
Test hours:	2		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4448727628		
Longitude:	-83.5330776905		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	4
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	65		
Pct aq d:	65	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	35
Pct cm d:	35	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:	25	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	25	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	90
Pct maq 1:	0	Pct cm 1:	10
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:	80
Pct maq 3:	0	Pct cm 3:	20
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	25		
Horiz Conduct:	100		
Vert Conduct:	100		
T2:	2500		
D50plek:	103.67894		

45
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000076443

Wellid:	63000022253	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	DAVID MOORE		
Well addr:	51092 SUNDAY DR		
Well depth:	139		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-09-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	129		
Screen frm:	129		
Screen to:	139		
Swl:	45		
Test depth:	130		
Test hours:	2		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.44901456		
Longitude:	-83.54780141		
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:	974	Elev dif:	974
Elev miv:	974	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	7		
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	93
Pct cm d:	93	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:	94	A pct aq2:	11

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	89	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	94		
Horiz Conduct:	5.31924		
Vert Conduct:	.00011		
T2:	500.0084		
D50plek:	84.91344		

46
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000076494

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002625	Import id:	63017831005
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	JONES, JAMES		
Well addr:	50345 NINE MILE		
Well depth:	91		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	705
Const date:	1978-02-15 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	87		
Screen frm:	87		
Screen to:	91		
Swl:	45		
Test depth:	45		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.4493032955		
Longitude:	-83.5418078993		
Methd coll:	*U		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	4
Elev miv:	965	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	2		
Pct aq d:	2	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:	98	Pct pcm d:	98
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:	2	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	46	A pct aq2:	4
A pct maq2:	0	A pct pcm2:	96
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:	50	A sc lith2:	Clay & Gravel
A sc lmod2:	Not Reported	A sc lmaq2:	PCM
A sc lpct2:	50	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:	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:	46		
Horiz Conduct:	2.17487		
Vert Conduct:	.00105		
T2:	100.044		
D50plek:	9.12705		

47
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000076389

Wellid:	63000022428	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	KROL BUILDING CO		
Well addr:	51025 SUNDAY DR		
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2002-10-07 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	130		
Screen frm:	130		
Screen to:	140		
Swl:	60		
Test depth:	140		
Test hours:	2		
Test rate:	35	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.44877564		
Longitude:	-83.54939409		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	968	Elev dif:	968
Elev miv:	968	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:	21
Pct cm d:	21	Pct cm r:	0
Pct pcm:	70	Pct pcm d:	70
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:	12	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:	15
A pct maq2:	0	A pct pcm2:	71
A pct cm2:	14	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:	95
Pct pcm 1:	5	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:	32	Pct pcm 6:	68
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:	80		
Horiz Conduct:	15.00714		
Vert Conduct:	.00069		
T2:	1200.5711		
D50plek:	165.49607		

L48
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075833

Wellid:	63000002626	Import id:	63017831006
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	ZERVOS, GEORGE		
Well addr:	21951 GARFIELD		
Well depth:	135		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	414
Const date:	1988-06-06 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	135		
Screen frm:	131		
Screen to:	135		
Swl:	45		
Test depth:	66		
Test hours:	4		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4461998289		
Longitude:	-83.5331896327		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	1
Elev miv:	960	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:	1
Pct cm d:	1	Pct cm r:	0
Pct pcm:	59	Pct pcm d:	59
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	21	A pct aq:	90
A pct maq:	0	A pct pcm:	5
A pct cm:	5	A pct na:	0
A thickns2:	90	A pct aq2:	29

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	70
A pct cm2:	1	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	45	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	55
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:	10	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	90
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:	36	Pct maq 6:	0
Pct cm 6:	4	Pct pcm 6:	60
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:	90		
Horiz Conduct:	21.66736		
Vert Conduct:	.0011		
T2:	1950.0622		
D50plek:	294.86267		

L49
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075969

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002621	Import id:	63017831001
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	ALLISON, GARY		
Well addr:	22001 GARFIELD		
Well depth:	92		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	248
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	89		
Screen frm:	89		
Screen to:	92		
Swl:	60		
Test depth:	82		
Test hours:	2		
Test rate:	15	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.4468136556		
Longitude:	-83.5338039168		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	0		
Pct aq d:	0	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	91
Pct cm d:	91	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:	8	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	100
A thickns2:	32	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	75	A pct na2:	25
A hit swl:	F	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:	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:	0
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

M50
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000076619

Wellid:	63000002617	Import id:	63017830008
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	30
Owner name:	LETOURUEAU, ALBERT		
Well addr:	50666 NINE MILE		
Well depth:	51		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	132
Const date:	1969-02-15 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	46		
Screen to:	51		
Swl:	999.99		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4499628142		
Longitude:	-83.5445857537		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	*U		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	961	Elev dif:	4
Elev miv:	965	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	90
Pct cm d:	90	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:	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:	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:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

L51
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075902

Wellid:	63000002629	Import id:	63017831009
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	ELLSWORTH, JOSEPH		
Well addr:	21975 GARFIELD		
Well depth:	140		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	414
Const date:	1988-06-24 00:00:00.000	Case type:	Steel-black
Case dia:	0		
Case depth:	0		
Screen frm:	136		
Screen to:	140		
Swl:	47		
Test depth:	50		
Test hours:	4		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4465360415		
Longitude:	-83.5332518247		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	1
Elev miv:	960	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:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	61	Pct pcm d:	61
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	21	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	93	A pct aq2:	23

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	Gravel
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:	85
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	15
Pct aq 2:	70	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	30
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:	24	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	76
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:	93		
Horiz Conduct:	17.75016		
Vert Conduct:	.00143		
T2:	1650.765		
D50plek:	260.15839		

52
NNE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076560

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000017905	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	ALFREDO AUTUNNO		
Well addr:	50233 NINE MILE ROAD		
Well depth:	86		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2001-01-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	76		
Screen frm:	75		
Screen to:	86		
Swl:	44		
Test depth:	86		
Test hours:	1		
Test rate:	15	Test methd:	Air
Grouted:	1	Pmp cpcity:	12
Latitude:	42.44966215		
Longitude:	-83.53985962		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	13		
Pct aq d:	13	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	63
Pct cm d:	63	Pct cm r:	0
Pct pcm:	24	Pct pcm d:	24
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:	42	A pct aq2:	26
A pct maq2:	0	A pct pcm2:	50
A pct cm2:	24	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:	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:	70
Pct pcm 3:	30	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	75
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	42		
Horiz Conduct:	26.1955		
Vert Conduct:	.00041		
T2:	1100.211		
D50plek:	79.991		

L53
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076027

Wellid:	63000002624	Import id:	63017831004
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	REYNOLDS, MARY		
Well addr:	22015 GARFIELD		
Well depth:	128		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	26
Const date:	1980-05-05 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	128		
Screen frm:	124		
Screen to:	128		
Swl:	48		
Test depth:	85		
Test hours:	2		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4470677751		
Longitude:	-83.5335596776		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	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:	8	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:	13
A pct maq2:	0	A pct pcm2:	9
A pct cm2:	75	A pct na2:	4
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:	85
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	15	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

M54
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000076668

Wellid:	63000002618	Import id:	63017830009
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	30
Owner name:	LOCKHART, TODD		
Well addr:	50750 NINE MILE		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	357
Const date:	1990-08-06 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	115		
Screen frm:	115		
Screen to:	120		
Swl:	999.99		
Test depth:	120		
Test hours:	1		
Test rate:	35	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4501336975		
Longitude:	-83.5459323195		
Methd coll:	*U		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	964	Elev dif:	6
Elev miv:	970	Aq code:	Unknown Lithology
Aq flag:	Not Reported		
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:	-3
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

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:	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:	0	Pct na 1:	100
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	100	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:	0
Pct pcm 5:	0	Pct na 5:	100
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	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		

L55
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075839

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002641	Import id:	63017832004
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	EDSON, LARRY		
Well addr:	21880 GARFIELD		
Well depth:	148		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1580
Const date:	1988-11-22 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	144		
Screen frm:	144		
Screen to:	148		
Swl:	53		
Test depth:	0		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4462239273		
Longitude:	-83.5324148901		
Methd coll:	*U		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	7
Elev miv:	965	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:	65
Pct cm d:	65	Pct cm r:	0
Pct pcm:	7	Pct pcm d:	7
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	4	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	95	A pct aq2:	13
A pct maq2:	0	A pct pcm2:	11
A pct cm2:	77	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	50	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	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:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	4	Pct maq 6:	0
Pct cm 6:	96	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:	95		
Horiz Conduct:	6.31597		
Vert Conduct:	.00013		
T2:	600.0173		
D50plek:	101.95244		

M56
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000076695

Wellid:	63000020067	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	MARK UJKIE		
Well addr:	22264 ROBERTS DRIVE LOT 36		
Well depth:	128		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1924
Const date:	2001-11-07 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	128		
Screen frm:	108		
Screen to:	128		
Swl:	50		
Test depth:	50		
Test hours:	2		
Test rate:	25	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.45028482		
Longitude:	-83.54511227		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	26		
Pct aq d:	26	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	74
Pct cm d:	74	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:	28	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	78	A pct aq2:	42
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	58	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	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:	0
Pct maq 5:	0	Pct cm 5:	100
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	78		
Horiz Conduct:	24.35903		
Vert Conduct:	.00017		
T2:	1900.0045		
D50plek:	249.32152		

**N57
NNW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076383

Wellid:	63000019560	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	J. LACK		
Well addr:	51005 SUNDAY DR. LOT 71		
Well depth:	144		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1879
Const date:	2001-06-25 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	136		
Screen frm:	136		
Screen to:	144		
Swl:	55		
Test depth:	120		
Test hours:	1		
Test rate:	15	Test methd:	Test Pump
Grouted:	1	Pmp cpcity:	10
Latitude:	42.44875372		
Longitude:	-83.55198084		
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:	984	Elev dif:	984
Elev miv:	984	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	52
Pct cm d:	52	Pct cm r:	0
Pct pcm:	38	Pct pcm d:	38
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:	.100000001490116
A thicknes:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	89	A pct aq2:	16

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	62
A pct cm2:	22	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:	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:	75	Pct pcm 4:	25
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	100	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	100
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	89		
Horiz Conduct:	7.86581		
Vert Conduct:	.00035		
T2:	700.057		
D50plek:	110.50433		

O58
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076109

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002622	Import id:	63017831002
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	WOOTEN, DAVID		
Well addr:	22033 GARFIELD		
Well depth:	103		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1789
Const date:	1986-01-10 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	99		
Screen frm:	99		
Screen to:	103		
Swl:	60		
Test depth:	60		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4474444584		
Longitude:	-83.5338473669		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	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:	15
Pct cm d:	15	Pct cm r:	0
Pct pcm:	73	Pct pcm d:	73
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	15	A pct aq:	53
A pct maq:	0	A pct pcm:	47
A pct cm:	0	A pct na:	0
A thickns2:	43	A pct aq2:	19
A pct maq2:	0	A pct pcm2:	81
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:	75
Pct pcm 1:	25	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:	75	Pct na 3:	25
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	25
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	75	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:	43		
Horiz Conduct:	9.33077		
Vert Conduct:	.00186		
T2:	401.223		
D50plek:	31.55361		

L59
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076005

Wellid:	63000017627	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	KAREN MANNKE		
Well addr:	21620 GARFIELD		
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2197
Const date:	2000-06-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	72		
Screen frm:	72		
Screen to:	80		
Swl:	67		
Test depth:	69		
Test hours:	5		
Test rate:	30	Test methd:	Other
Grouted:	1	Pmp cpcity:	24
Latitude:	42.44695224		
Longitude:	-83.53309481		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	61		
Pct aq d:	61	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	20
Pct cm d:	20	Pct cm r:	0
Pct pcm:	16	Pct pcm d:	16
Pct pcm r:	0	Pct na:	3
Pct na d:	3	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	13	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	13	A pct aq2:	100
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	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:	90
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	10
Pct aq 2:	45	Pct maq 2:	0
Pct cm 2:	55	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	10
Pct maq 3:	0	Pct cm 3:	25
Pct pcm 3:	65	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	13		
Horiz Conduct:	88.46154		
Vert Conduct:	81.25		
T2:	1150		
D50plek:	25.81896		

L60
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075911

Wellid:	63000002640	Import id:	63017832003
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	JAMES & CAROL BODRIE TRUST		
Well addr:	21940 GARFIELD		
Well depth:	148		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1924
Const date:	1993-09-20 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	142		
Screen frm:	142		
Screen to:	148		
Swl:	50		
Test depth:	148		
Test hours:	2		
Test rate:	25	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.446561088		
Longitude:	-83.5324363099		
Methd coll:	*U		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	4
Elev miv:	965	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	59		
Pct aq d:	59	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:	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:	57	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	98	A pct aq2:	58

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	42	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	55	Pct maq 2:	0
Pct cm 2:	45	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	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:	45
Pct maq 5:	0	Pct cm 5:	55
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	100	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	98		
Horiz Conduct:	58.16331		
Vert Conduct:	.00024		
T2:	5700.0041		
D50plek:	889.38752		

O61
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076076

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000017251	Import id:	Not Reported
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	OHLGREN		
Well addr:	21666 GARFIELD		
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	2000-08-23 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	71		
Screen frm:	71		
Screen to:	80		
Swl:	58		
Test depth:	71		
Test hours:	3		
Test rate:	20	Test methd:	Air
Grouted:	1	Pmp cpcity:	12
Latitude:	42.44728512		
Longitude:	-83.53308152		
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:	58		
Pct aq d:	58	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:	43	Pct pcm d:	43
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	22	A pct aq:	59
A pct maq:	0	A pct pcm:	41
A pct cm:	0	A pct na:	0
A thickns2:	22	A pct aq2:	59
A pct maq2:	0	A pct pcm2:	41
A pct cm2:	0	A pct na2:	0
A hit swl:	T	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	40	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	60
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:	65	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	35
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	22		
Horiz Conduct:	59.09132		
Vert Conduct:	.00244		
T2:	1300.009		
D50plek:	49.07477		

**62
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076303

Wellid:	63000001567	Import id:	63017736015
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	PICKREN, DONALD		
Well addr:	22243 NAPIER		
Well depth:	307		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1968-12-03 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	303		
Screen frm:	303		
Screen to:	307		
Swl:	76		
Test depth:	291		
Test hours:	3		
Test rate:	3	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4482758335		
Longitude:	-83.5536331045		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	995		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	987	Elev dif:	8
Elev miv:	995	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	1		
Pct aq d:	1	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	99
Pct cm d:	99	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:	4	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	231	A pct aq2:	2
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	98	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:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	100
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	100	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	100
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	100	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:	231		
Horiz Conduct:	.8659		
Vert Conduct:	.0001		
T2:	200.0227		
D50plek:	87.93556		

63
NNW
1/2 - 1 Mile
Higher

MI WELLS MI3000000076760

Wellid:	63000002615	Import id:	63017830006
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	30
Owner name:	YOUNG CHARLES		
Well addr:	50910 NINE MILE		
Well depth:	80		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	25
Const date:	1976-10-05 00:00:00.000	Case type:	Unknown
Case dia:	6		
Case depth:	75		
Screen frm:	74.5		
Screen to:	80		
Swl:	40		
Test depth:	70		
Test hours:	1.5		
Test rate:	30	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.4505642074		
Longitude:	-83.5473410923		
Methd coll:	*U		
Elevation:	975		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	968	Elev dif:	7
Elev miv:	975	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:	20
Pct cm d:	20	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:	7	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	40	A pct aq2:	18

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	58
A pct cm2:	25	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	30
Pct pcm 1:	0	Pct na 1:	70
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	0
Pct na 2:	100	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	50
Pct pcm 3:	50	Pct na 3:	0
Pct aq 4:	35	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	65
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	40		
Horiz Conduct:	8.75578		
Vert Conduct:	.00039		
T2:	350.231		
D50plek:	25.81843		

64
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076088

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002638	Import id:	63017832001
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	FISHER, YONA		
Well addr:	22020 GARFIELD		
Well depth:	143		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1929
Const date:	1991-04-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	139		
Screen frm:	139		
Screen to:	143		
Swl:	32		
Test depth:	143		
Test hours:	1.5		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4473465119		
Longitude:	-83.532396173		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	1
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	13		
Pct aq d:	13	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:	2	Pct pcm d:	2
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	14	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	111	A pct aq2:	16
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	84	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:	85
Pct pcm 1:	15	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:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	100	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	111		
Horiz Conduct:	8.10819		
Vert Conduct:	.00012		
T2:	900.0093		
D50plek:	174.79818		

**N65
NNW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076461

Wellid:	63000001566	Import id:	63017736014
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	STELZER, LESLIE		
Well addr:	22301 NAPIER		
Well depth:	339		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1199
Const date:	Not Reported	Case type:	Unknown
Case dia:	4		
Case depth:	329		
Screen frm:	329		
Screen to:	339		
Swl:	30		
Test depth:	300		
Test hours:	4		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4491190049		
Longitude:	-83.5530098268		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	995		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	991	Elev dif:	4
Elev miv:	995	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	10		
Pct aq d:	10	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	18
Pct cm d:	18	Pct cm r:	0
Pct pcm:	72	Pct pcm d:	72
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	24	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	309	A pct aq2:	11
A pct maq2:	0	A pct pcm2:	70
A pct cm2:	19	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine 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:	95	Pct na 1:	5
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:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	100	Pct na 7:	0
Pct aq 8:	14	Pct maq 8:	0
Pct cm 8:	86	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	17
Pct pcm 9:	83	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	100
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:	309		
Horiz Conduct:	5.1822		
Vert Conduct:	.00044		
T2:	1601.301		
D50plek:	839.82267		

O66
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076274

Wellid:	63000002623	Import id:	63017831003
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	SIGNOR, JEAN		
Well addr:	22077 GARFIELD		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1765
Const date:	1984-12-07 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	113		
Screen frm:	113		
Screen to:	117		
Swl:	40		
Test depth:	60		
Test hours:	.5		
Test rate:	60	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.4481790756		
Longitude:	-83.5334036632		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	21		
Pct aq d:	21	Pct aq r:	0
Pct maq:	42	Pct maq d:	42
Pct maq r:	0	Pct cm:	38
Pct cm d:	38	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:	9	A pct aq:	44
A pct maq:	56	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	77	A pct aq2:	5

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	51	A pct pcm2:	0
A pct cm2:	44	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	50
Pct cm 2:	50	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	35	Pct cm 3:	65
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	100
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	35	Pct cm 5:	65
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:	77		
Horiz Conduct:	10.26003		
Vert Conduct:	.00051		
T2:	790.0223		
D50plek:	107.18702		

67
West
1/2 - 1 Mile
Higher

MI WELLS MI3000000074058

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000021931	Import id:	Not Reported
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	MIKE PALUSHAJ		
Well addr:	21102 HUNTERS RIDGE		
Well depth:	120		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	2002-07-09 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	116		
Screen frm:	116		
Screen to:	120		
Swl:	52		
Test depth:	120		
Test hours:	1		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.43744468		
Longitude:	-83.56107084		
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:	974	Elev dif:	974
Elev miv:	974	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	7		
Pct aq d:	7	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	73
Pct cm d:	73	Pct cm r:	0
Pct pcm:	20	Pct pcm d:	20
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:	8	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	68	A pct aq2:	12
A pct maq2:	0	A pct pcm2:	35
A pct cm2:	53	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
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:	40
Pct pcm 5:	60	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:	68		
Horiz Conduct:	11.76511		
Vert Conduct:	.00018		
T2:	800.0276		
D50plek:	95.7924		

**68
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076457

Wellid:	63000001565	Import id:	63017736013
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	TAYLOR, JAMES		
Well addr:	51601 NINE MILE RD		
Well depth:	99		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1856
Const date:	1991-09-13 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	92		
Screen frm:	92		
Screen to:	99		
Swl:	57		
Test depth:	91		
Test hours:	.5		
Test rate:	15	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4490868884		
Longitude:	-83.5548294222		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	1005		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	997	Elev dif:	8
Elev miv:	1005	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	12		
Pct aq d:	12	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	30
Pct cm d:	30	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:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	42	A pct aq2:	29
A pct maq2:	0	A pct pcm2:	29
A pct cm2:	43	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:	60
Pct pcm 1:	40	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	55	Pct pcm 4:	45
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	42		
Horiz Conduct:	14.28604		
Vert Conduct:	.00022		
T2:	600.0138		
D50plek:	45.07346		

P69
South
1/2 - 1 Mile
Lower

MI WELLS MI3000000071851

Wellid:	82000001846	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	BONNIE BROOK HOMES		
Well addr:	50054 JONATHON COURT		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2001-07-27 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	107		
Screen frm:	107		
Screen to:	117		
Swl:	40		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42569912		
Longitude:	-83.54138445		
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:	951	Elev dif:	951
Elev miv:	951	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:	79
Pct cm d:	79	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:	77	A pct aq2:	13

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	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:	75
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	100	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	100
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	77		
Horiz Conduct:	6.49359		
Vert Conduct:	.00011		
T2:	500.0067		
D50plek:	69.55653		

Q70
ESE
1/2 - 1 Mile
Lower

MI WELLS MI3000000073069

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	82000000490	Import id:	82717805014
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	5
Owner name:	GEORGE MCCARTHY		
Well addr:	20495 WESTVIEW		
Well depth:	102		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1861
Const date:	1986-09-20 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	98		
Screen frm:	98		
Screen to:	102		
Swl:	52		
Test depth:	0		
Test hours:	1		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4335852304		
Longitude:	-83.5276180003		
Methd coll:	Interpolation-Map		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	2
Elev miv:	960	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	49		
Pct aq d:	49	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	51
Pct cm d:	51	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:	50	A pct aq2:	34
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	66	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:	100
Pct maq 1:	0	Pct cm 1:	0
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:	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:	50		
Horiz Conduct:	102.00007		
Vert Conduct:	.00015		
T2:	5100.0033		
D50plek:	408.21877		

P71 South 1/2 - 1 Mile Lower

MI WELLS MI3000000071827

Wellid:	82000001708	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	BONNIE BRECK		
Well addr:	50006 JONATHAN COURT		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	1999-03-02 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	117		
Screen frm:	97		
Screen to:	117		
Swl:	55		
Test depth:	60		
Test hours:	2		
Test rate:	15	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42557037		
Longitude:	-83.54091017		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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:	951	Elev dif:	951
Elev miv:	951	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	17		
Pct aq d:	17	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	83
Pct cm d:	83	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:	62	A pct aq2:	32
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	68	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	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:	15
Pct maq 5:	0	Pct cm 5:	85
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	80	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	20
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:	62		
Horiz Conduct:	16.1291		
Vert Conduct:	.00015		
T2:	1000.0042		
D50plek:	107.87345		

72
NE
1/2 - 1 Mile
Lower

MI WELLS MI3000000076566

Wellid:	63000002627	Import id:	63017831007
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	31
Owner name:	MITTS, TIMOTHY		
Well addr:	22125 GARFIELD		
Well depth:	88		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	27
Const date:	1989-07-06 00:00:00.000	Case type:	Steel-black
Case dia:	0		
Case depth:	0		
Screen frm:	84		
Screen to:	88		
Swl:	40		
Test depth:	70		
Test hours:	4		
Test rate:	20	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4496831106		
Longitude:	-83.5335895657		
Methd coll:	*U		
Elevation:	960		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	1
Elev miv:	960	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:	27
Pct cm d:	27	Pct cm r:	0
Pct pcm:	35	Pct pcm d:	35
Pct pcm r:	0	Pct na:	3
Pct na d:	3	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	12	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	48	A pct aq2:	31

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	65
A pct cm2:	4	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:	75
Pct maq 1:	0	Pct cm 1:	10
Pct pcm 1:	0	Pct na 1:	15
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	15
Pct maq 3:	0	Pct cm 3:	10
Pct pcm 3:	75	Pct na 3:	0
Pct aq 4:	20	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	80
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	48		
Horiz Conduct:	93.75065		
Vert Conduct:	.00094		
T2:	4500.0312		
D50plek:	347.92319		

P73
SSE
1/2 - 1 Mile
Lower

MI WELLS MI3000000071840

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	82000001785	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	BONNIE BROOK HOMES LLC		
Well addr:	49958 JONATHAN COURT		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2000-12-27 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	90		
Screen frm:	90		
Screen to:	100		
Swl:	40		
Test depth:	100		
Test hours:	2		
Test rate:	20	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42563645		
Longitude:	-83.5403216		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	64		
Pct aq d:	64	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	36
Pct cm d:	36	Pct cm r:	0
Pct pcm:	0	Pct pcm d:	0
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	13	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	60	A pct aq2:	47
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	53	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:	80
Pct maq 1:	0	Pct cm 1:	20
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:	70
Pct maq 3:	0	Pct cm 3:	30
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	5	Pct maq 4:	0
Pct cm 4:	95	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	65
Pct maq 5:	0	Pct cm 5:	35
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:	60		
Horiz Conduct:	46.66672		
Vert Conduct:	.00019		
T2:	2800.0032		
D50plek:	277.0933		

R74
SSE
1/2 - 1 Mile
Lower

MI WELLS MI3000000071854

Wellid:	82000001790	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	H.K. DEVELOPMENT		
Well addr:	49910 JONATHAN CT.		
Well depth:	100		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2000-11-10 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	90		
Screen frm:	90		
Screen to:	100		
Swl:	40		
Test depth:	100		
Test hours:	2		
Test rate:	30	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42573614		
Longitude:	-83.53946537		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	961	Elev dif:	961
Elev miv:	961	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	25		
Pct aq d:	25	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	15
Pct cm d:	15	Pct cm r:	0
Pct pcm:	60	Pct pcm d:	60
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:	60	A pct aq2:	17
A pct maq2:	0	A pct pcm2:	83
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	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:	75
Pct maq 1:	0	Pct cm 1:	25
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	50	Pct pcm 2:	50
Pct na 2:	0	Pct aq 3:	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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	60		
Horiz Conduct:	16.675		
Vert Conduct:	.012		
T2:	1000.5		
D50plek:	104.44266		

75
ESE
1/2 - 1 Mile
Lower

MI WELLS MI3000000073201

Wellid:	82000000481	Import id:	82717805005
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	5
Owner name:	JOHN SLOWELL		
Well addr:	20505 WESTVIEW		
Well depth:	82		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	524
Const date:	1971-07-01 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	78		
Screen frm:	78		
Screen to:	82		
Swl:	53		
Test depth:	57		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4344747085		
Longitude:	-83.5268384447		
Methd coll:	Interpolation-Map		
Elevation:	959		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	954	Elev dif:	5
Elev miv:	959	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	12		
Pct aq d:	12	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	70
Pct cm d:	70	Pct cm r:	0
Pct pcm:	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:	10	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	29	A pct aq2:	34

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	66	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:	25
Pct pcm 1:	75	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	40	Pct maq 4:	0
Pct cm 4:	60	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	29		
Horiz Conduct:	34.48282		
Vert Conduct:	.00015		
T2:	1000.0019		
D50plek:	50.45683		

P76
South
1/2 - 1 Mile
Lower

MI WELLS

MI3000000071789

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	82000001750	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	BONNIE BROOK		
Well addr:	50111 JOHNATHAN COURT		
Well depth:	112		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	1999-06-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	105		
Screen frm:	105		
Screen to:	112		
Swl:	48		
Test depth:	52		
Test hours:	2		
Test rate:	30	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42532341		
Longitude:	-83.54225165		
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:	948	Elev dif:	948
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:	39
Pct cm d:	39	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:	37	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	64	A pct aq2:	58
A pct maq2:	0	A pct pcm2:	42
A pct cm2:	0	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:	20
Pct pcm 3:	80	Pct na 3:	0
Pct aq 4:	25	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	75
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:	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:	64		
Horiz Conduct:	103.12922		
Vert Conduct:	.0237		
T2:	6600.27		
D50plek:	667.78383		

**S77
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076448

Wellid:	63000001564	Import id:	63017736012
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	SCHWARZ, ROBERT		
Well addr:	51715 NINE MILE RD		
Well depth:	88		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1586
Const date:	1977-07-21 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	84		
Screen frm:	84		
Screen to:	88		
Swl:	54		
Test depth:	54		
Test hours:	2		
Test rate:	12	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4490391569		
Longitude:	-83.5563680574		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	995		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	1004	Elev dif:	9
Elev miv:	995	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	38		
Pct aq d:	38	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	63
Pct cm d:	63	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:	34	A pct aq:	97
A pct maq:	0	A pct pcm:	0
A pct cm:	3	A pct na:	0
A thickns2:	34	A pct aq2:	97
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	3	A pct na2:	0
A hit swl:	T	A hit top:	F
A hit rock:	F	A sc lith1:	Sand & Gravel
A sc lmod1:	Not Reported	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	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:	25
Pct maq 3:	0	Pct cm 3:	75
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	34		
Horiz Conduct:	97.05883		
Vert Conduct:	.0034		
T2:	3300.0001		
D50plek:	183.53473		

P78
South
1/2 - 1 Mile
Lower

MI WELLS MI3000000071785

Wellid:	82000001764	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	H K DEVELOPEMNT		
Well addr:	19411 MAYBURY LANE		
Well depth:	106		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	2000-10-30 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	96		
Screen frm:	96		
Screen to:	106		
Swl:	40		
Test depth:	106		
Test hours:	2		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42528972		
Longitude:	-83.54070827		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	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:	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:	11	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	66	A pct aq2:	17

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	83
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	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:	100
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	0	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:	25
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	75	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:	66		
Horiz Conduct:	8.33417		
Vert Conduct:	.0012		
T2:	550.055		
D50plek:	65.24305		

79
NNE
1/2 - 1 Mile
Lower

MI WELLS MI3000000077009

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	63000002620	Import id:	63017830011
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	30
Owner name:	LUNN, JOSEPH		
Well addr:	49900 NINE MILE		
Well depth:	93		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1154
Const date:	1995-03-03 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	89		
Screen frm:	89		
Screen to:	93		
Swl:	38		
Test depth:	80		
Test hours:	1		
Test rate:	23	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4518395129		
Longitude:	-83.5378278224		
Methd coll:	*U		
Elevation:	970		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	6
Elev miv:	970	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	6		
Pct aq d:	6	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	2
Pct cm d:	2	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:	13	A pct aq:	46
A pct maq:	0	A pct pcm:	54
A pct cm:	0	A pct na:	0
A thickns2:	55	A pct aq2:	11
A pct maq2:	0	A pct pcm2:	89
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:	10
Pct pcm 1:	90	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:	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:	55		
Horiz Conduct:	5.45658		
Vert Conduct:	.00129		
T2:	300.112		
D50plek:	30.68774		

**S80
NW
1/2 - 1 Mile
Higher**

MI WELLS MI3000000076444

Wellid:	63000001563	Import id:	63017736011
County:	Oakland	Township:	Lyon
Town range:	01N 07E	Section:	36
Owner name:	REA, PHILLIP		
Well addr:	51731 NINE MILE RD		
Well depth:	88		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	132
Const date:	1967-04-28 00:00:00.000	Case type:	Unknown
Case dia:	4		
Case depth:	0		
Screen frm:	84		
Screen to:	88		
Swl:	65		
Test depth:	0		
Test hours:	0		
Test rate:	0	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4490299549		
Longitude:	-83.5571460099		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	Interpolation-Map		
Elevation:	1000		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	1004	Elev dif:	4
Elev miv:	1000	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:	43
Pct cm d:	43	Pct cm r:	0
Pct pcm:	16	Pct pcm d:	16
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	23	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:	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:	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:	0	Pct maq 2:	0
Pct cm 2:	65	Pct pcm 2:	35
Pct na 2:	0	Pct aq 3:	40
Pct maq 3:	0	Pct cm 3:	25
Pct pcm 3:	35	Pct na 3:	0
Pct aq 4:	100	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	T		
Athk2:	23		
Horiz Conduct:	152.17391		
Vert Conduct:	121.05263		
T2:	3500		
D50plek:	131.29328		

R81
SSE
1/2 - 1 Mile
Lower

MI WELLS MI3000000071749

Wellid:	82000001709	Import id:	Not Reported
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	6
Owner name:	BONNIE BRECK		
Well addr:	49909 JONATHAN COURT		
Well depth:	88		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	2125
Const date:	1999-03-05 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	80		
Screen frm:	80		
Screen to:	88		
Swl:	33		
Test depth:	35		
Test hours:	2		
Test rate:	50	Test methd:	Air
Grouted:	1	Pmp cpcity:	20
Latitude:	42.42503687		
Longitude:	-83.5399726		
Methd coll:	Interpolation-Map		
Elevation:	0		
Elev methd:	DEM30M	Depth flag:	Not Reported
Elev flag:	Elevation < DEMmin or Elevation > DEMmax		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	958
Elev miv:	958	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	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:	16	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	55	A pct aq2:	29

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	71	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	65
Pct maq 1:	0	Pct cm 1:	35
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	25	Pct maq 2:	0
Pct cm 2:	75	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	100
Pct pcm 3:	0	Pct na 3:	0
Pct aq 4:	40	Pct maq 4:	0
Pct cm 4:	60	Pct pcm 4:	0
Pct na 4:	0	Pct aq 5:	0
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	0
Pct aq 6:	0	Pct maq 6:	0
Pct cm 6:	0	Pct pcm 6:	0
Pct na 6:	0	Pct aq 7:	0
Pct maq 7:	0	Pct cm 7:	0
Pct pcm 7:	0	Pct na 7:	0
Pct aq 8:	0	Pct maq 8:	0
Pct cm 8:	0	Pct pcm 8:	0
Pct na 8:	0	Pct aq 9:	0
Pct maq 9:	0	Pct cm 9:	0
Pct pcm 9:	0	Pct na 9:	0
Pct aq 10:	0	Pct maq 10:	0
Pct cm 10:	0	Pct pcm 10:	0
Pct na 10:	0	Pct aq 11:	0
Pct maq 11:	0	Pct cm 11:	0
Pct pcm 11:	0	Pct na 11:	0
Pct aq 12:	0	Pct maq 12:	0
Pct cm 12:	0	Pct pcm 12:	0
Pct na 12:	0	Pct aq 13:	0
Pct maq 13:	0	Pct cm 13:	0
Pct pcm 13:	0	Pct na 13:	0
Within sec:	Y	Loc match:	Y
Aq code 1:	D		
Hit swl:	F		
Athk2:	55		
Horiz Conduct:	14.54553		
Vert Conduct:	.00014		
T2:	800.0039		
D50plek:	77.47697		

Q82
ESE
1/2 - 1 Mile
Lower

MI WELLS MI3000000072940

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wellid:	82000000486	Import id:	82717805010
County:	Wayne	Township:	Northville
Town range:	01S 08E	Section:	5
Owner name:	DNR		
Well addr:	MAYBURY ST. PARK		
Well depth:	101		
Well type:	Other		
Wssn:	0		
Well num:	Not Reported	Driller id:	0
Const date:	1976-09-01 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:	42.4328575631		
Longitude:	-83.5268328334		
Methd coll:	Interpolation-Map		
Elevation:	950		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	SWL > Well Depth		
Elev dem:	948	Elev dif:	2
Elev miv:	950	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	16		
Pct aq d:	16	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	0
Pct cm d:	0	Pct cm r:	0
Pct pcm:	84	Pct pcm d:	84
Pct pcm r:	0	Pct na:	0
Pct na d:	0	Pct na r:	0
Pct flag:	Not Reported	Rock top:	-1
D r type:	Not Reported	Spc cpcity:	0
A thicknes:	0	A pct aq:	0
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	0	A pct aq2:	0
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	0	A pct na2:	0
A hit swl:	F	A hit top:	T
A hit rock:	F	A sc lith1:	Not Reported
A sc lmod1:	Not Reported	A sc lmaq1:	Not Reported
A sc lpct1:	0	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	0
Pct pcm 1:	100	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	0	Pct pcm 2:	100
Pct na 2:	0	Pct aq 3:	0
Pct maq 3:	0	Pct cm 3:	0
Pct pcm 3:	100	Pct na 3:	0
Pct aq 4:	0	Pct maq 4:	0
Pct cm 4:	0	Pct pcm 4:	100
Pct na 4:	0	Pct aq 5:	75
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	25	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:	Not Reported		
Hit swl:	Not Reported		
Athk2:	0		
Horiz Conduct:	0		
Vert Conduct:	0		
T2:	0		
D50plek:	0		

83
North
1/2 - 1 Mile
Lower

MI WELLS MI3000000077168

Wellid:	63000002614	Import id:	63017830005
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	30
Owner name:	SZUR, WILLIAM		
Well addr:	51000 NINE MILE		
Well depth:	117		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1154
Const date:	1986-06-17 00:00:00.000	Case type:	Steel-black
Case dia:	4		
Case depth:	112		
Screen frm:	112		
Screen to:	117		
Swl:	32		
Test depth:	40		
Test hours:	1		
Test rate:	20	Test methd:	Unknown
Grouted:	0	Pmp cpcity:	0
Latitude:	42.452905243		
Longitude:	-83.5473451519		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Methd coll:	*U		
Elevation:	975		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	964	Elev dif:	11
Elev miv:	975	Aq code:	Drift Well
Aq flag:	Not Reported		
Pct aq:	27		
Pct aq d:	27	Pct aq r:	0
Pct maq:	0	Pct maq d:	0
Pct maq r:	0	Pct cm:	47
Pct cm d:	47	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:	62	A pct aq:	52
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	48
A thickns2:	85	A pct aq2:	38
A pct maq2:	0	A pct pcm2:	0
A pct cm2:	27	A pct na2:	35
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Sand
A sc lmod1:	Fine To Medium	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	Pct maq 2:	0
Pct cm 2:	100	Pct pcm 2:	0
Pct na 2:	0	Pct aq 3:	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:	0	Pct pcm 4:	0
Pct na 4:	100	Pct aq 5:	50
Pct maq 5:	0	Pct cm 5:	0
Pct pcm 5:	0	Pct na 5:	50
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

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

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		

84
ENE
1/2 - 1 Mile
Lower

MI WELLS MI3000000075448

Wellid:	63000002642	Import id:	63017832005
County:	Oakland	Township:	Novi
Town range:	01N 08E	Section:	32
Owner name:	BOOMS, RICHARD		
Well addr:	21580 GARFIELD		
Well depth:	36		
Well type:	Household		
Wssn:	0		
Well num:	Not Reported	Driller id:	1919
Const date:	1994-08-16 00:00:00.000	Case type:	PVC Plastic
Case dia:	5		
Case depth:	36		
Screen frm:	26		
Screen to:	36		
Swl:	10		
Test depth:	36		
Test hours:	1		
Test rate:	50	Test methd:	Unknown
Grouted:	1	Pmp cpcity:	0
Latitude:	42.4443330477		
Longitude:	-83.5261972873		
Methd coll:	*U		
Elevation:	965		
Elev methd:	Topographoc Map Interpolation	Depth flag:	Not Reported
Elev flag:	Not Reported		
Swl flag:	Not Reported		
Elev dem:	958	Elev dif:	7
Elev miv:	965	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:	56
Pct cm d:	56	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:	16	A pct aq:	100
A pct maq:	0	A pct pcm:	0
A pct cm:	0	A pct na:	0
A thickns2:	26	A pct aq2:	62

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

A pct maq2:	0	A pct pcm2:	0
A pct cm2:	38	A pct na2:	0
A hit swl:	F	A hit top:	F
A hit rock:	F	A sc lith1:	Gravel
A sc lmod1:	Coarse	A sc lmaq1:	AQ
A sc lpct1:	100	A sc lith2:	Not Reported
A sc lmod2:	Not Reported	A sc lmaq2:	Not Reported
A sc lpct2:	0	Pct aq 1:	0
Pct maq 1:	0	Pct cm 1:	100
Pct pcm 1:	0	Pct na 1:	0
Pct aq 2:	0	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:	D		
Hit swl:	F		
Athk2:	26		
Horiz Conduct:	184.61542		
Vert Conduct:	.00026		
T2:	4800.001		
D50plek:	200.3828		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance

Database EDR ID Number

1

SSW

1/8 - 1/4 Mile

OIL_GAS

MIOG90000045569

Api wellno:	21125192180000		
Opno:	502		
Operator Name:	CHERRY CHARLES A AND ROBERTS HARRY E		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	19218		
Lease name:	LITTLE, J. W.		
Well no:	1		
Deepestfmrtn:	SLIN7	Obj fmrtn:	TRNN
Drillerstd:	4852	Truetd:	0
County:	OAKLAND	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	31
Wh twpn:	1	Wh twpd:	N
Wh rngn:	8	Wh rngd:	E
Wh qq:	SW	Wh qq:	SE
Wh q:	SW		
Wh lat:	42.43625		
Wh long:	-83.54575		
Wh georef x:	701728.73		
Wh georef y:	212517.73		
Bh georef x:	701728.73		
Bh georef y:	212517.73		
Bh sourceloc:	C		
Bh lat:	42.43625		
Bh long:	-83.54575		
Site id:	MIOG90000045569		

2

West

1/2 - 1 Mile

OIL_GAS

MIOG90000045545

Api wellno:	21125183140000		
Opno:	1732		
Operator Name:	MORRISS WILLIAM J		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	18314		
Lease name:	DAVIDSON, G. AND M. ET AL		
Well no:	1		
Deepestfmrtn:	DUND	Obj fmrtn:	Not Reported
Drillerstd:	734	Truetd:	0
County:	OAKLAND	Slant:	V
Well type:	Gas	Well status:	Plugging Approved
Source loc:	C	Wh sec:	36
Wh twpn:	1	Wh twpd:	N

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	7	Wh rngd:	E
Wh qq:	Not Reported	Wh qq:	CN
Wh q:	SE		
Wh lat:	42.4386		
Wh long:	-83.55706		
Wh georef x:	700791.17		
Wh georef y:	212751.21		
Bh georef x:	700791.17		
Bh georef y:	212751.21		
Bh sourceloc:	C		
Bh lat:	42.4386		
Bh long:	-83.55706		
Site id:	MIOG90000045545		

A3
SSW
1/2 - 1 Mile

OIL_GAS **MIOG90000063823**

Api wellno:	21163407580000		
Opno:	4591		
Operator Name:	SOMOCO INC		
Operator Status:	Active-		
Operator City:	TRAVERSE CITY	Operator State:	MI
Permit no:	40758		
Lease name:	STATE NORTHVILLE & CONSUMERS POWER		
Well no:	1-6		
Deepestfmrtn:	TRVR3	Obj fmrtn:	CLNN
Drillerstd:	4587	Truetd:	0
County:	WAYNE	Slant:	D
Well type:	Oil	Well status:	Producing
Source loc:	g	Wh sec:	6
Wh twpn:	1	Wh twpd:	S
Wh rngn:	8	Wh rngd:	E
Wh qq:	NE	Wh qq:	NW
Wh q:	SW		
Wh lat:	42.4286237		
Wh long:	-83.5488927		
Wh georef x:	701495.31		
Wh georef y:	211663.46		
Bh georef x:	702356.36		
Bh georef y:	211995.67		
Bh sourceloc:	C		
Bh lat:	42.43138		
Bh long:	-83.53831		
Site id:	MIOG90000063823		

A5
SSW
1/2 - 1 Mile

OIL_GAS **MIOG90000063830**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21163450800100		
Opno:	4591		
Operator Name:	SOMOCO INC		
Operator Status:	Active-		
Operator City:	TRAVERSE CITY	Operator State:	MI
Permit no:	45080		
Lease name:	STATE NORTHVILLE & CONSUMERS POWER		
Well no:	2-6 HD		
Deepestfmrtn:	NGRN1	Obj fmrtn:	Not Reported
Drillerstd:	3640	Truetd:	3255
County:	WAYNE	Slant:	H
Well type:	Oil	Well status:	Producing
Source loc:	g	Wh sec:	6
Wh twpn:	1	Wh twpd:	S
Wh rngn:	8	Wh rngd:	E
Wh qq:	NE	Wh qq:	NW
Wh q:	SW		
Wh lat:	42.4283293		
Wh long:	-83.5489138		
Wh georef x:	701494.62		
Wh georef y:	211631.23		
Bh georef x:	702311.62		
Bh georef y:	211566.34		
Bh sourceloc:	C		
Bh lat:	0		
Bh long:	0		
Site id:	MIOG90000063830		

A4 SSW 1/2 - 1 Mile

OIL_GAS

MIOG90000063829

Api wellno:	21163450800000		
Opno:	4591		
Operator Name:	SOMOCO INC		
Operator Status:	Active-		
Operator City:	TRAVERSE CITY	Operator State:	MI
Permit no:	45080		
Lease name:	STATE NORTHVILLE & CONSUMERS POWER		
Well no:	2-6		
Deepestfmrtn:	NGRN1	Obj fmrtn:	NGRN
Drillerstd:	3900	Truetd:	3367
County:	WAYNE	Slant:	D
Well type:	Oil	Well status:	Producing
Source loc:	g	Wh sec:	6
Wh twpn:	1	Wh twpd:	S
Wh rngn:	8	Wh rngd:	E
Wh qq:	NE	Wh qq:	NW
Wh q:	SW		
Wh lat:	42.4283293		
Wh long:	-83.5489138		
Wh georef x:	701494.62		
Wh georef y:	211631.23		
Bh georef x:	702022.4		
Bh georef y:	211560.09		
Bh sourceloc:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.42755
Bh long: -83.54252
Site id: MIOG90000063829

6
SW

1/2 - 1 Mile

OIL_GAS

MIOG90000063599

Api wellno:	21161428060000		
Opno:	4919		
Operator Name:	T D OIL AND GAS INC		
Operator Status:	Inactive-no active wells at present		
Operator City:	ARCADIA	Operator State:	MI
Permit no:	42806		
Lease name:	VINCI		
Well no:	1-1		
Deepestfmrtn:	NGRN2	Obj fmrtn:	NGRN2
Drillerstd:	3480	Truetd:	0
County:	WASHTENAW	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	1
Wh twpn:	1	Wh twpd:	S
Wh rngn:	7	Wh rngd:	E
Wh qq:	SE	Wh qq:	SE
Wh q:	NE		
Wh lat:	42.43002		
Wh long:	-83.55342		
Wh georef x:	701118.61		
Wh georef y:	211808.29		
Bh georef x:	701118.61		
Bh georef y:	211808.29		
Bh sourceloc:	C		
Bh lat:	42.43002		
Bh long:	-83.55342		
Site id:	MIOG90000063599		

A7
SSW

1/2 - 1 Mile

OIL_GAS

MIOG90000063711

Api wellno:	21163189950000		
Opno:	3457		
Operator Name:	TAGGART W C		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	18995		
Lease name:	DICKSON, IVAN & KNAPP, PAUL		
Well no:	4		
Deepestfmrtn:	TRNN	Obj fmrtn:	Not Reported
Drillerstd:	4678	Truetd:	0
County:	WAYNE	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	6
Wh twpn:	1	Wh twpd:	S

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Wh rngn:	8	Wh rngd:	E
Wh qq:	NE	Wh qq:	NW
Wh q:	SW		
Wh lat:	42.42796		
Wh long:	-83.54788		
Wh georef x:	701580.71		
Wh georef y:	211592.88		
Bh georef x:	701580.71		
Bh georef y:	211592.88		
Bh sourceloc:	C		
Bh lat:	42.42796		
Bh long:	-83.54788		
Site id:	MIOG90000063711		

8

WSW

1/2 - 1 Mile

OIL_GAS

MIOG90000063413

Api wellno:	21161136670000		
Opno:	207		
Operator Name:	BAKER MALLIE A AND BAKER BEVIE B		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	13667		
Lease name:	BAKER, M. A.		
Well no:	1		
Deepestfntn:	DUND	Obj fntn:	Not Reported
Drillerstd:	823	Truetd:	0
County:	WASHTENAW	Slant:	V
Well type:	Gas	Well status:	Plugging Approved
Source loc:	C	Wh sec:	1
Wh twpn:	1	Wh twpd:	S
Wh rngn:	7	Wh rngd:	E
Wh qq:	SE	Wh qq:	NW
Wh q:	NE		
Wh lat:	42.43271		
Wh long:	-83.55751		
Wh georef x:	700773.08		
Wh georef y:	212096.13		
Bh georef x:	700773.08		
Bh georef y:	212096.13		
Bh sourceloc:	C		
Bh lat:	42.43271		
Bh long:	-83.55751		
Site id:	MIOG90000063413		

9

NW

1/2 - 1 Mile

OIL_GAS

MIOG90000045572

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Api wellno:	21125192380000		
Opno:	1732		
Operator Name:	MORRISS WILLIAM J		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	19238		
Lease name:	NELSON, R. G. ET AL COMM.		
Well no:	1		
Deepestfmrtn:	DUND	Obj fmrtn:	DUND
Drillerstd:	761	Truetd:	0
County:	OAKLAND	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	36
Wh twpn:	1	Wh twpd:	N
Wh rngn:	7	Wh rngd:	E
Wh qq:	Not Reported	Wh qq:	CN
Wh q:	NE		
Wh lat:	42.44585		
Wh long:	-83.55749		
Wh georef x:	700732.2		
Wh georef y:	213555.25		
Bh georef x:	700732.2		
Bh georef y:	213555.25		
Bh sourceloc:	C		
Bh lat:	42.44585		
Bh long:	-83.55749		
Site id:	MIOG90000045572		

10 WNW 1/2 - 1 Mile

OIL_GAS

MIOG90000045570

Api wellno:	21125192360000		
Opno:	2497		
Operator Name:	TOROSIAN EDWARD		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	19236		
Lease name:	NELSON, R. G. & JACQUES, A. J. COMM.		
Well no:	1		
Deepestfmrtn:	CLCC	Obj fmrtn:	TRNN
Drillerstd:	4900	Truetd:	0
County:	OAKLAND	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	36
Wh twpn:	1	Wh twpd:	N
Wh rngn:	7	Wh rngd:	E
Wh qq:	NE	Wh qq:	SW
Wh q:	NE		
Wh lat:	42.44487		
Wh long:	-83.55867		
Wh georef x:	700638.45		
Wh georef y:	213444.04		
Bh georef x:	700638.45		
Bh georef y:	213444.04		
Bh sourceloc:	C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Bh lat: 42.44487
Bh long: -83.55867
Site id: MIOG90000045570

11
NNW
1/2 - 1 Mile

OIL_GAS

MIOG90000045561

Api wellno:	21125191130000		
Opno:	2497		
Operator Name:	TOROSIAN EDWARD		
Operator Status:	Inactive-no active wells at present		
Operator City:	Not Reported	Operator State:	Not Reported
Permit no:	19113		
Lease name:	BALKO, FRED		
Well no:	1		
Deepestfmtn:	BBLC	Obj fmtn:	BBLC
Drillerstd:	1705	Truetd:	0
County:	OAKLAND	Slant:	V
Well type:	Dry Hole	Well status:	Plugging Approved
Source loc:	C	Wh sec:	30
Wh twpn:	1	Wh twpd:	N
Wh rngn:	8	Wh rngd:	E
Wh qqg:	NE	Wh qq:	SW
Wh q:	SW		
Wh lat:	42.45227		
Wh long:	-83.54931		
Wh georef x:	701383.47		
Wh georef y:	214287.05		
Bh georef x:	701383.47		
Bh georef y:	214287.05		
Bh sourceloc:	C		
Bh lat:	42.45227		
Bh long:	-83.54931		
Site id:	MIOG90000045561		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
48167	9/18/2008		1.6
48167	9/23/2008		1.5
48167	5/16/2005		1.5
48167	12/6/2004		1.5
48167	5/20/2005		1.5
48167	3/4/2005		1.5
48167	7/26/2004		1.4
48167	10/16/2009		1.5
48167	8/22/2000		1.4
48167	7/25/2008		1.4
48167	2/5/2007		1.3
48167	12/4/1995		1.3
48167	3/18/2005		1.3
48167	3/2/2004		1.3
48167	12/5/1995		1.2
48167	11/12/2007		1.3
48167	10/6/2000		1.3
48167	12/17/2007		1.2
48167	5/3/2004		1.2
48167	12/27/2004		1.2
48167	3/4/2005		1.1
48167	12/8/2004		1.1
48167	6/10/2000		1.0
48167	4/7/2001		1.0
48167	7/25/2009		1.0
48167	3/24/2004		1.0
48167	6/24/2006		1.0
48167	2/2/2006		1.9
48167	9/21/1998		1.9
48167	11/24/1997		1.9
48167	9/3/2002		1.9
48167	7/3/2004		1.8
48167	8/29/2005		1.6
48167	6/4/2005		1.6
48167	5/7/2007	<	0.3
48167	2/13/2006	<	0.3
48167	6/13/2005	<	0.3
48167	11/2/2006	<	0.3
48167	3/2/2004		0.5
48167	4/9/2007	<	0.3
48167	1/17/2006		0.5
48167	9/15/2006	<	0.3
48167	2/13/2001		0.5
48167	3/23/2000		0.5
48167	6/14/2002	<	0.3
48167	4/7/2000		0.5
48167			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	4/10/2009		0.5
48167	2/19/2003	<	0.3
48167	2/19/2003	<	0.3
48167	5/7/2004	<	0.3
48167	5/3/1995		0.3
48167	12/17/2005	<	0.3
48167	3/15/2003		0.8
48167	10/18/2002		0.8
48167	6/26/2004		0.9
48167	2/18/2004		0.9
48167	4/9/2007		0.6
48167	6/12/2000		0.7
48167	12/11/2000		0.6
48167	7/19/2007		0.9
48167	2/24/2009		0.6
48167	10/6/1995		0.6
48167	12/6/2008		0.8
48167	1/2/1997		0.5
48167	11/20/2009		0.8
48167	1/18/2008		2.5
48167	11/20/1998		2.5
48167	2/27/1995		2.5
48167	11/8/2008		2.5
48167	11/22/2008		2.2
48167	1/22/2003		2.3
48167	3/16/2002		2.3
48167	7/29/2004		2.2
48167	2/23/2003		2.8
48167	2/9/2006		2.8
48167	11/13/2007		2.7
48167	2/15/2007		2.6
48167	2/20/2009		2.7
48167	2/13/2007		3.8
48167	4/13/2007		3.8
48167	4/26/2005		3.6
48167	11/15/2008		3.8
48167	12/17/2008		3.6
48167	10/25/2004		3.5
48167	12/17/2005		3.5
48167	12/18/2007		3.5
48167	3/23/2000	<	0.3
48167	3/25/2000	<	0.3
48167	10/2/2004		3.4
48167	3/25/2006		3.4
48167	7/31/1999		3.4
48167	3/24/2004		3.1
48167	6/1/2007		3.1
48167	2/22/2001	<	0.3
48167	11/13/2004		3.3
48167	12/16/2008	<	0.3
48167	1/26/1996		3.7
48167	3/18/2005		3.0
48167	12/16/2004		3.0
48167	11/4/2006		3.9
48167	10/29/2007		3.9
48167	7/31/1999		3.9
48167			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	3/7/2008		3.7
48167	11/19/2007		3.7
48167	11/7/2005		3.1
48167	4/10/2009	<	0.3
48167	4/10/2009	<	0.3
48167	5/21/2009	<	0.3
48167	5/21/2009	<	0.3
48167	5/21/2009	<	0.3
48167	2/23/2008		3.4
48167	7/31/1999		3.4
48167	4/27/2009	<	0.3
48167	4/27/2009	<	0.3
48167	4/27/2009	<	0.3
48167	4/14/2007		6.6
48167	11/19/2009		6.8
48167	11/2/2009		6.8
48167	5/8/2006		6.5
48167	6/17/2002		6.4
48167	2/13/2007		6.4
48167	7/8/2002		6.3
48167	7/21/2005		6.2
48167	11/22/1997		6.1
48167	3/27/2006		4.9
48167	11/7/2003		6.0
48167	2/21/2003		4.6
48167	4/3/2004		4.6
48167	2/2/2009		5.6
48167	12/17/2008		4.9
48167	10/29/2007		5.5
48167	11/5/2007		5.5
48167	7/12/2005		5.1
48167	11/6/2007		5.1
48167	4/6/2009		5.1
48167	11/3/2003		5.7
48167	10/5/2009		5.0
48167	12/10/2007		4.7
48167	11/14/2007		4.7
48167	12/10/2007		4.7
48167	8/20/2007		5.7
48167	3/27/2009		5.7
48167	1/28/2005		5.6
48167	11/6/2001		7.9
48167	7/1/2002		6.7
48167	5/5/2006		6.7
48167	7/24/2006		7.3
48167	5/10/2005		24.0
48167	12/9/1999		18.2
48167	1/28/2006		44.6
48167	6/19/2006		23.3
48167	11/4/2006		16.6
48167	11/14/2006		16.2
48167	1/31/2006		16.1
48167	4/22/2002		13.9
48167	3/20/2006		13.7
48167	5/13/2006		14.3
48167	2/20/1999		14.1
48167			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	11/13/2004	13.4
48167	5/15/2006	13.1
48167	12/9/1999	13.0
48167	1/24/2004	12.8
48167	10/21/2006	12.7
48167	8/20/2007	9.0
48167	10/24/2001	11.1
48167	5/27/2005	11.1
48167	6/20/2006	11.1
48167	8/22/2005	11.0
48167	1/19/2007	11.0
48167	2/8/2007	10.1
48167	10/31/2003	10.0
48167	1/28/2008	8.0
48167	6/20/2006	12.1
48167	10/29/2007	12.1
48167	12/9/2006	10.9
48167	11/22/2002	10.5
48167	9/26/1998	9.8
48167	6/20/2002	11.3
48167	3/5/2002	9.5
48167	5/24/2005	8.7
48167	6/1/2004	2.1
48167	2/28/2005	2.0
48167	3/3/2005	9.3
48167	12/16/2006	8.2
48167	11/4/2006	2.0
48167	12/12/1996	35.0
48167	6/20/2006	21.5
48167	5/13/2006	21.5
48167	2/22/1999	20.4
48167	4/18/2005	19.4
48167	2/25/2009	19.4
48167	5/8/2006	26.1
48167	10/23/2006	18.4
48167	12/6/2004	4.3
48167	11/12/1999	4.2
48167	2/11/2003	4.0
48167	6/5/2008	4.0
48167	1/26/1998	4.5
48167	12/8/2009	4.4
48167	11/23/2007	4.1
48167	6/18/2004	4.5
48167	2/18/2003	4.3
48167	6/16/2000	4.1
48167	12/17/2008	4.1
48167	4/3/2007	4.5
48167	12/10/2007	4.5

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.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal Area Radon Information for Zip Code: 48167

Number of sites tested: 5

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.900 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.860 pCi/L	80%	20%	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.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 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 Service (NRCS)

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 Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, 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

The data in this file was obtained from Wellogis, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogis contains approximately 425,000 water well records found within the State of Michigan, and although it represents the best available data, it cannot be considered a complete database of all the wells or well records in existence.

OTHER STATE DATABASE INFORMATION

Michigan Oil and Gas Wells

Source: Department of Environmental Quality

Telephone: 517-241-1528

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.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

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.

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

Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary faultlines, prepared in 1975 by the United State Geological Survey

STREET AND ADDRESS INFORMATION

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APPENDIX B

Historical Topographic Maps



Novi Parks - 50500 8 Mile

50500 East 8 Mile

Northville, MI 48167

Inquiry Number: 4803584.4

December 12, 2016

EDR Historical Topo Map Report

with QuadMatch™



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

12/12/16

Site Name:

Novi Parks - 50500 8 Mile
50500 East 8 Mile
Northville, MI 48167
EDR Inquiry # 4803584.4

Client Name:

ECT
3399 Veterans Drive
Traverse City, MI 49684
Contact: Dirk Mammen



EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by ECT were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDR's Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:**Coordinates:**

P.O.# NA
Project: NA

Latitude: 42.438775 42° 26' 20" North
Longitude: -83.544148 -83° 32' 39" West
UTM Zone: Zone 17 North
UTM X Meters: 290747.12
UTM Y Meters: 4701630.86
Elevation: 969.48' above sea level

Maps Provided:

2014	1906
1980	1904
1973	1902
1969	
1953	
1945	
1936	
1908	

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Topo Sheet Key

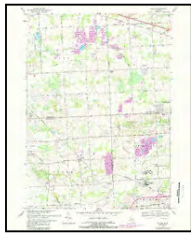
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2014 Source Sheets



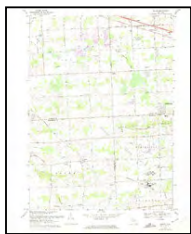
Salem
2014
7.5-minute, 24000

1980 Source Sheets



Salem
1980
7.5-minute, 24000
Photo Revised 1980
Aerial Photo Revised 1978

1973 Source Sheets



Salem
1973
7.5-minute, 24000
Photo Revised 1973
Aerial Photo Revised 1973

1969 Source Sheets



Salem
1969
7.5-minute, 24000
Aerial Photo Revised 1967

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1953 Source Sheets



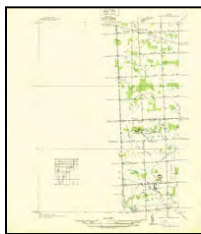
Salem
1953
7.5-minute, 24000
Aerial Photo Revised 1952

1945 Source Sheets



Salem
1945
7.5-minute, 24000

1936 Source Sheets



Salem
1936
7.5-minute, 31680

1908 Source Sheets

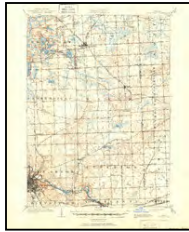


Ann Arbor
1908
30-minute, 125000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1906 Source Sheets



South Lyon
1906
15-minute, 62500

1904 Source Sheets

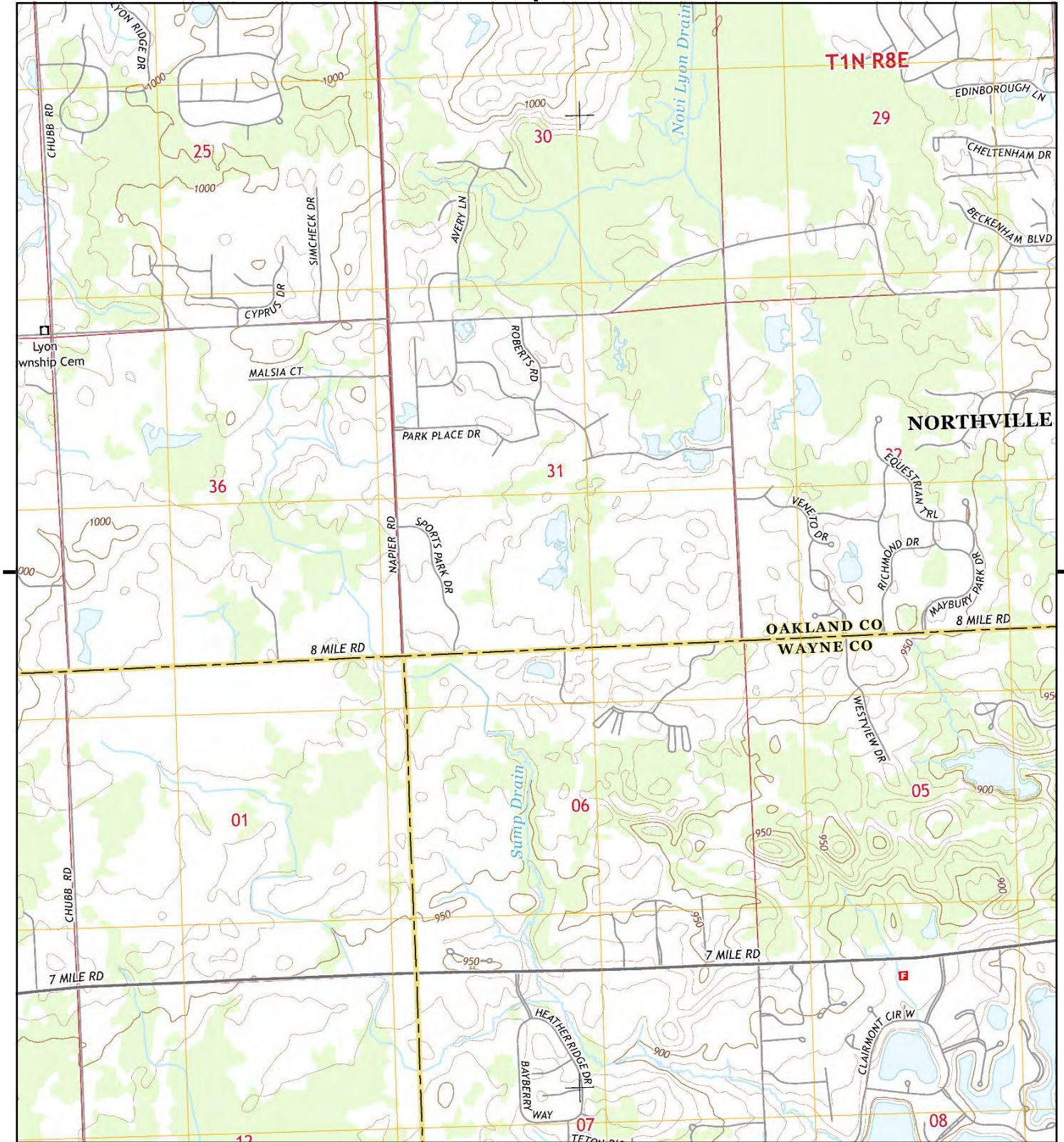


Ann Arbor
1904
30-minute, 125000

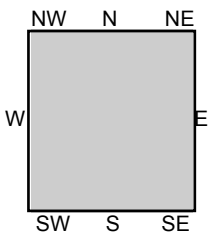
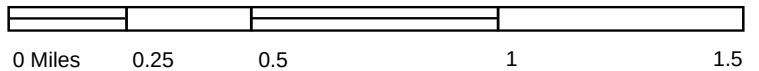
1902 Source Sheets



South Lyon
1902
15-minute, 62500



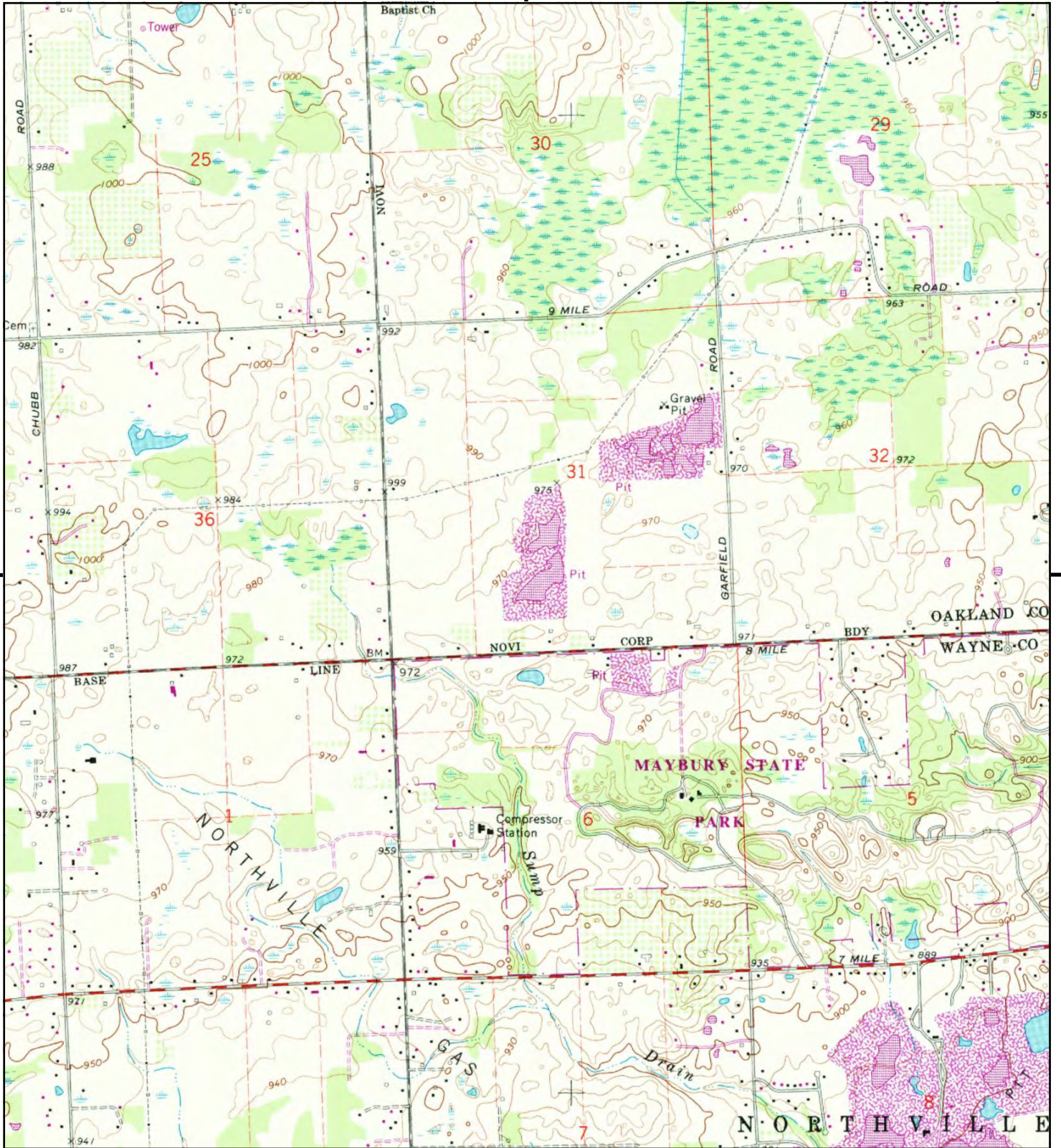
This report includes information from the following map sheet(s).



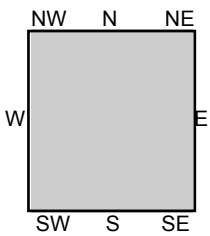
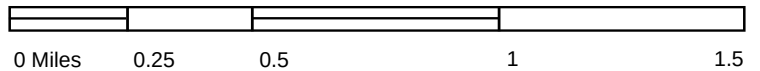
TP, Salem, 2014, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





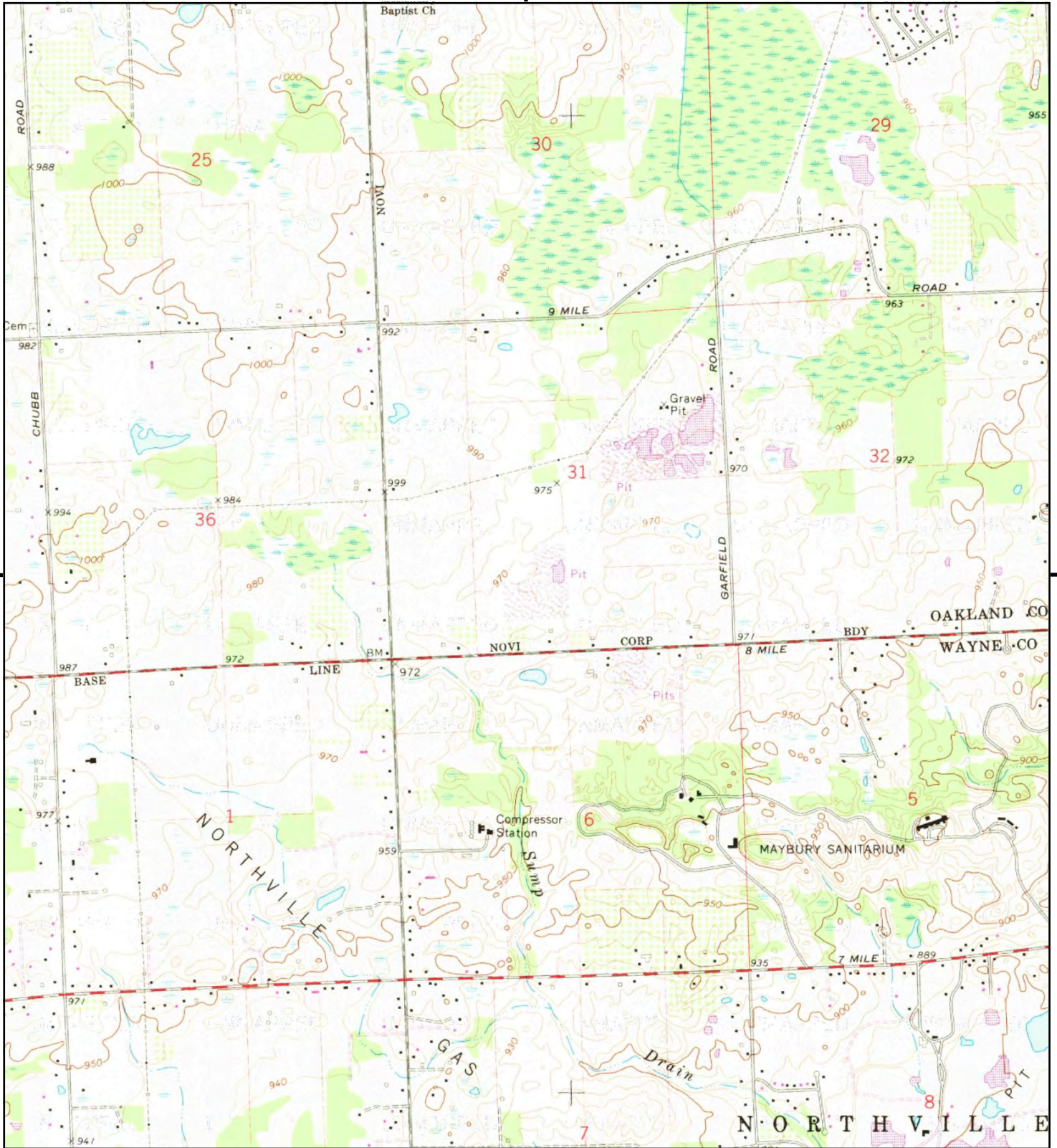
This report includes information from the following map sheet(s).



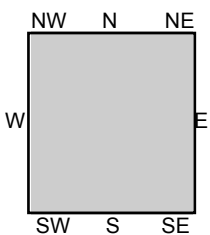
TP, Salem, 1980, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
ADDRESS: 50500 East 8 Mile
Northville, MI 48167
CLIENT: ECT





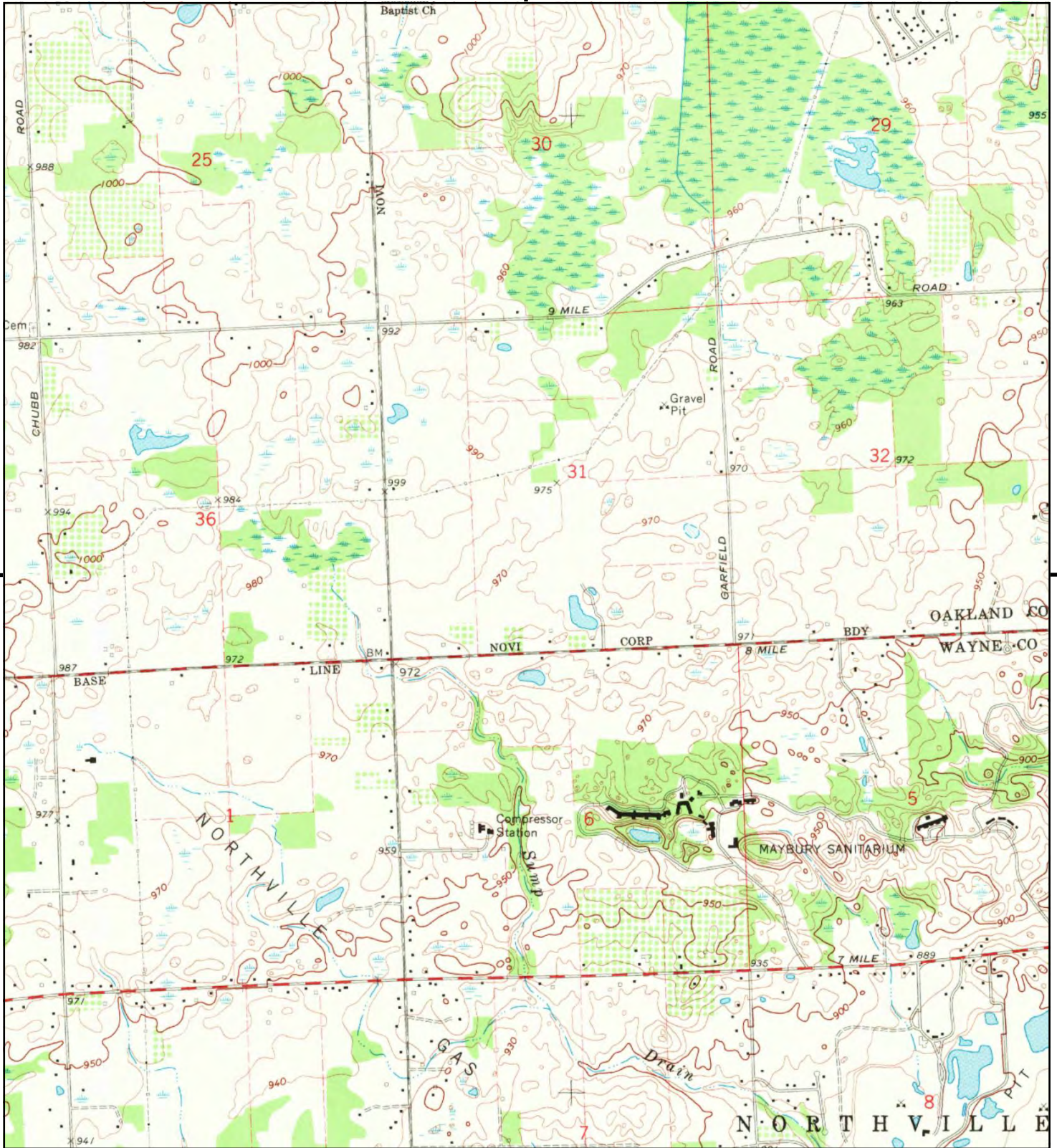
This report includes information from the following map sheet(s).



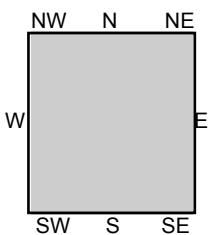
TP, Salem, 1973, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





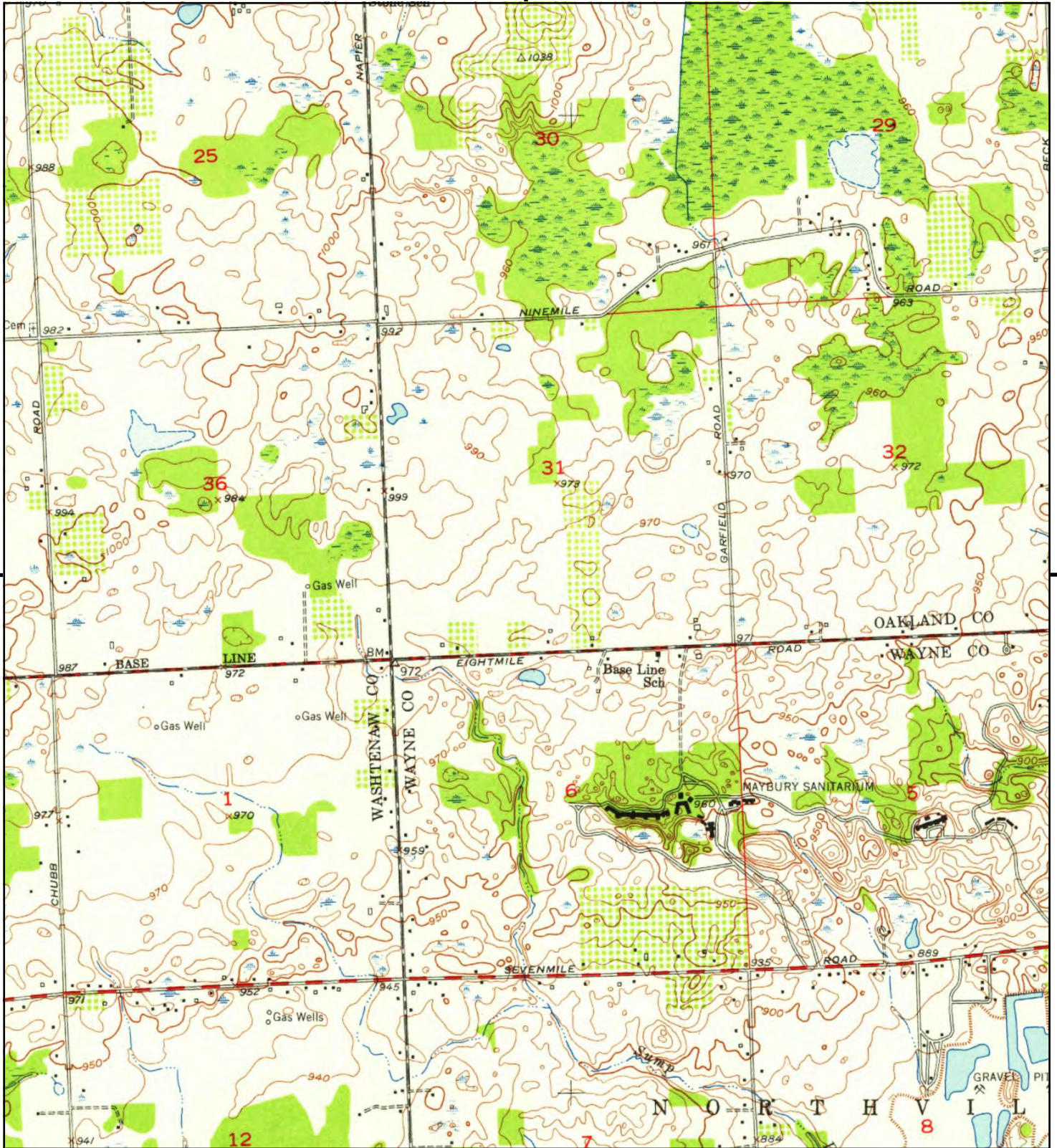
This report includes information from the following map sheet(s).



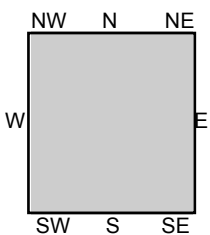
TP, Salem, 1969, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





This report includes information from the following map sheet(s).



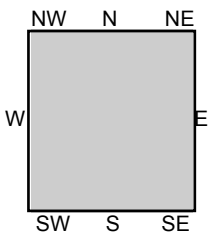
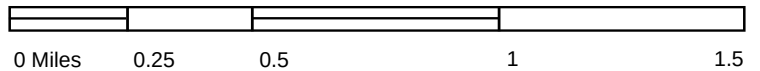
TP, Salem, 1953, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





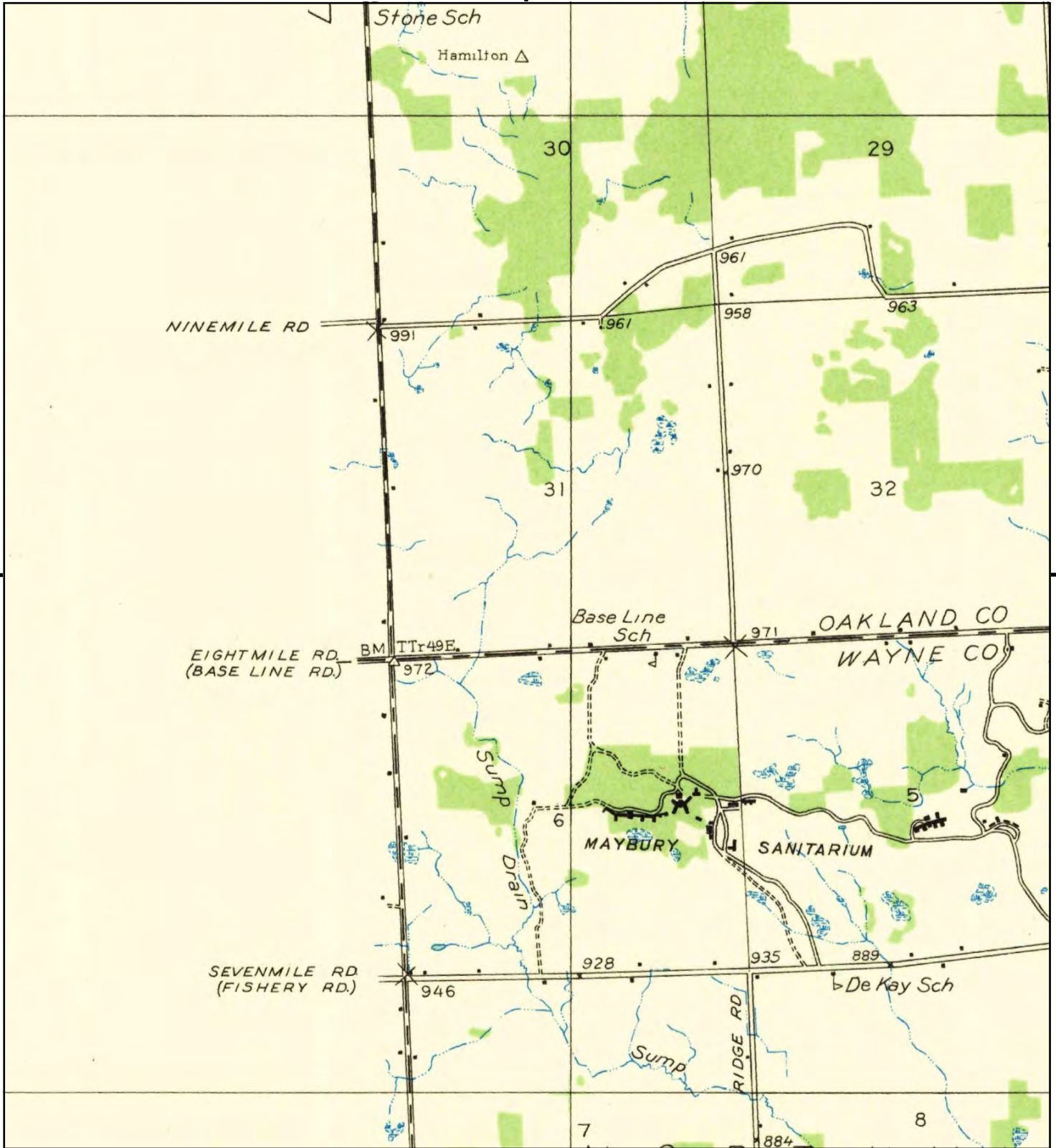
This report includes information from the following map sheet(s).



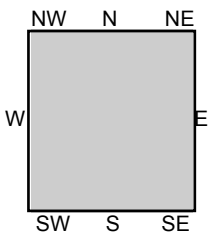
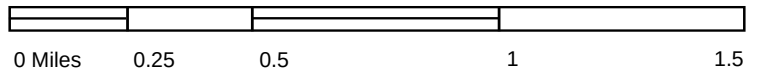
TP, Salem, 1945, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





This report includes information from the following map sheet(s).



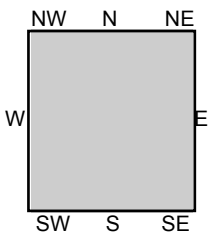
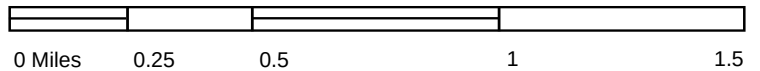
TP, Salem, 1936, 7.5-minute

SITE NAME: Novi Parks - 50500 8 Mile
ADDRESS: 50500 East 8 Mile
Northville, MI 48167
CLIENT: ECT





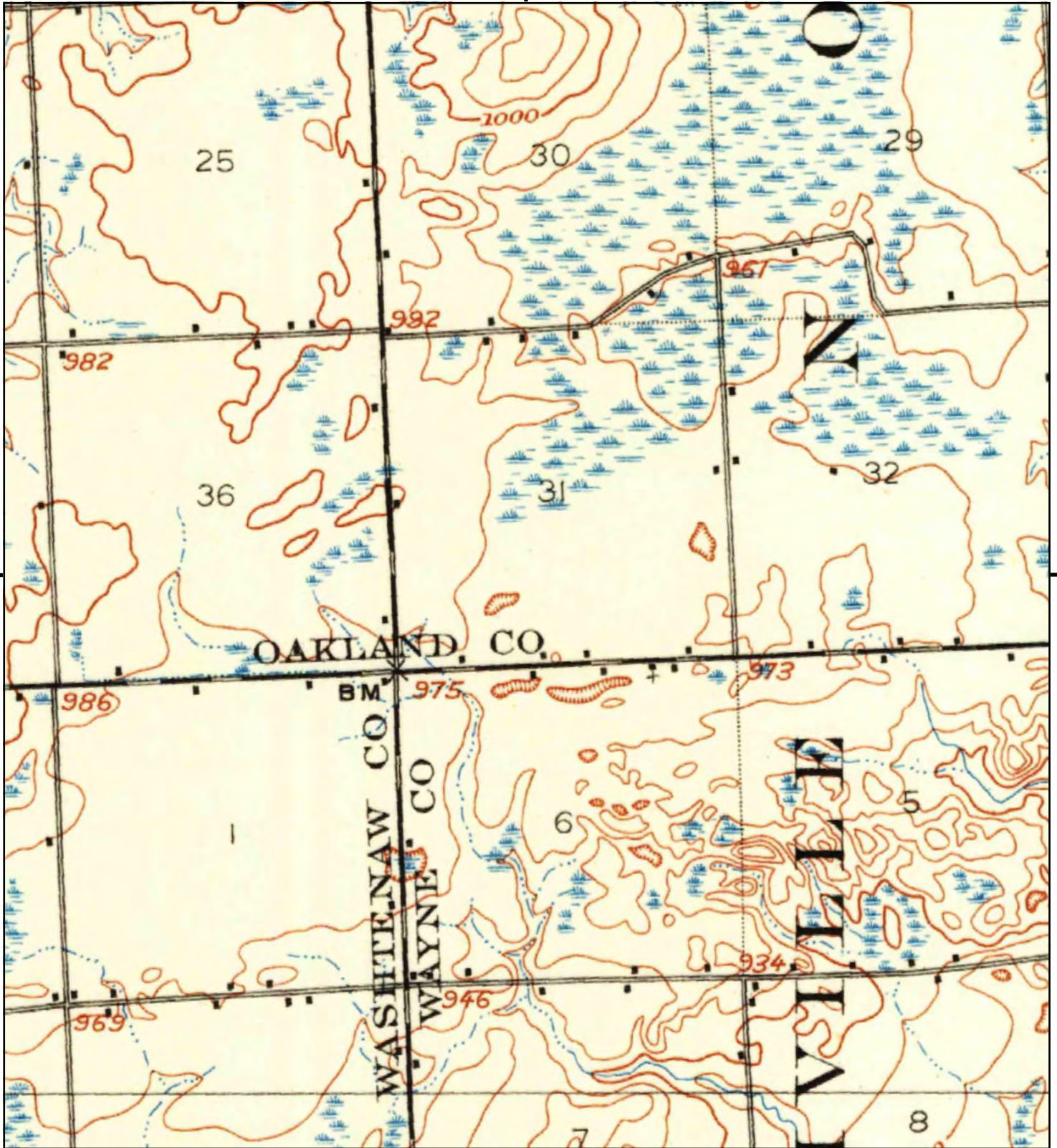
This report includes information from the following map sheet(s).



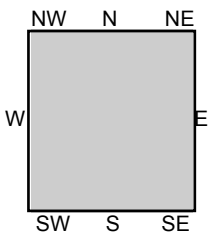
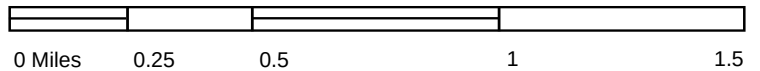
TP, Ann Arbor, 1908, 30-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





This report includes information from the following map sheet(s).



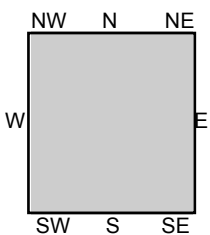
TP, South Lyon, 1906, 15-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





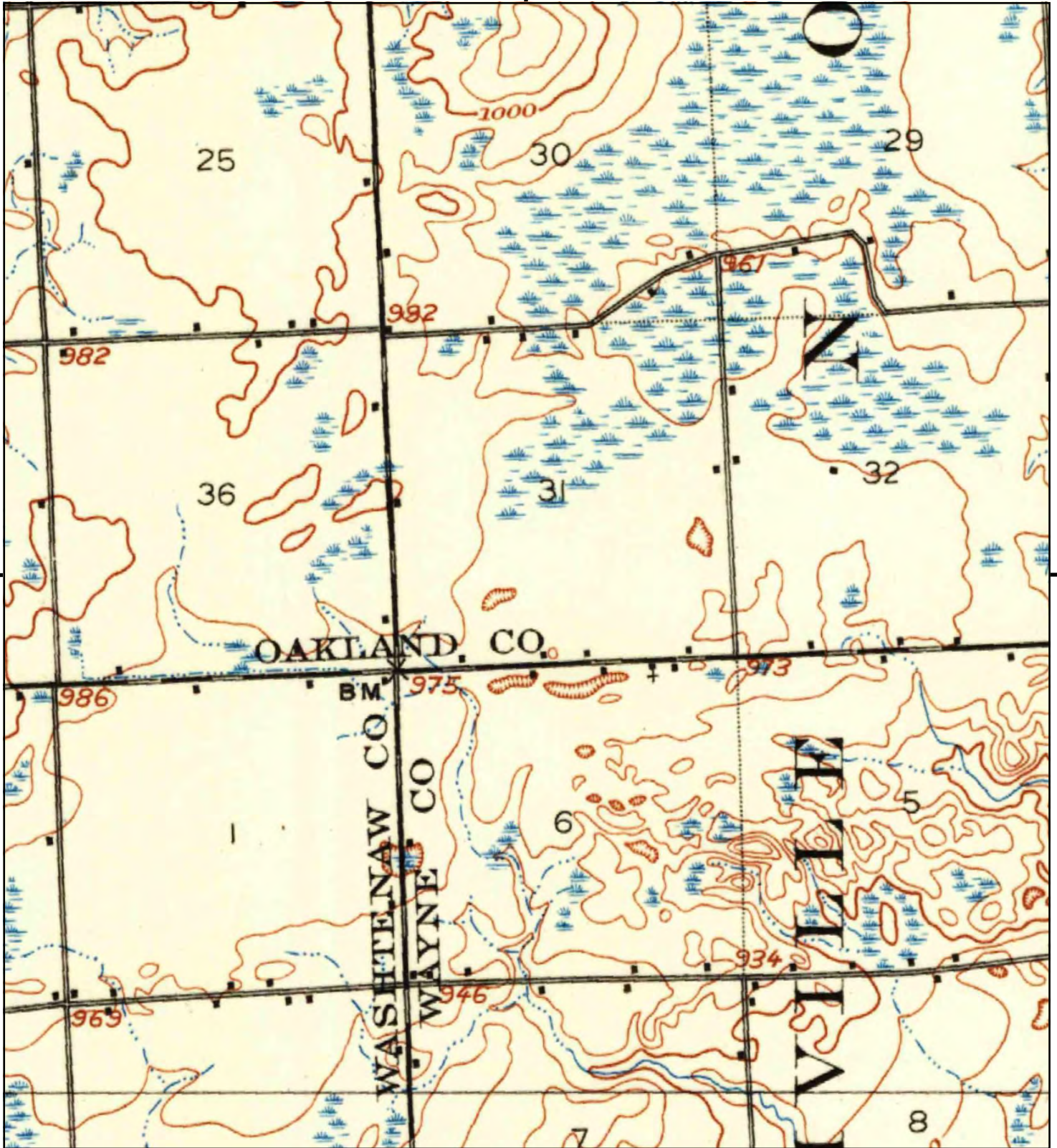
This report includes information from the following map sheet(s).



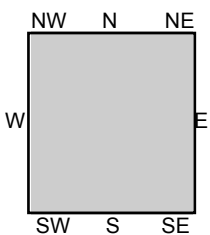
TP, Ann Arbor, 1904, 30-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT





This report includes information from the following map sheet(s).



TP, South Lyon, 1902, 15-minute

SITE NAME: Novi Parks - 50500 8 Mile
 ADDRESS: 50500 East 8 Mile
 Northville, MI 48167
 CLIENT: ECT



APPENDIX C

Aerial Photographs



Novi Parks - 50500 8 Mile

50500 East 8 Mile

Northville, MI 48167

Inquiry Number: 4803584.9

December 12, 2016

The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

12/12/16

Site Name:

Novi Parks - 50500 8 Mile
50500 East 8 Mile
Northville, MI 48167
EDR Inquiry # 4803584.9

Client Name:

ECT
3399 Veterans Drive
Traverse City, MI 49684
Contact: Dirk Mammen



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. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

<i>Year</i>	<i>Scale</i>	<i>Details</i>	<i>Source</i>
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
1999	1"=500'	Acquisition Date: March 27, 1999	USGS/DOQQ
1997	1"=500'	Flight Date: May 04, 1997	DTE
1987	1"=500'	Flight Date: June 05, 1987	USGS
1983	1"=500'	Flight Date: May 05, 1983	USGS
1976	1"=500'	Flight Date: March 25, 1976	USDA
1972	1"=500'	Flight Date: July 01, 1972	USDA
1967	1"=500'	Flight Date: May 12, 1967	DTE
1961	1"=500'	Flight Date: May 23, 1961	DTE
1956	1"=500'	Flight Date: May 07, 1956	DTE
1952	1"=500'	Flight Date: June 10, 1952	DTE
1949	1"=500'	Flight Date: April 29, 1949	DTE
1940	1"=500'	Flight Date: July 17, 1940	USDA
1937	1"=500'	Flight Date: July 23, 1937	USDA

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INQUIRY #: 4803584.9

YEAR: 2012

— = 500'





INQUIRY #: 4803584.9

YEAR: 2010

1" = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 2009

— = 500'





INQUIRY #: 4803584.9

YEAR: 2006

— = 500'





INQUIRY #: 4803584.9

YEAR: 2005

— = 500'





INQUIRY #: 4803584.9
YEAR: 1999
= 500'



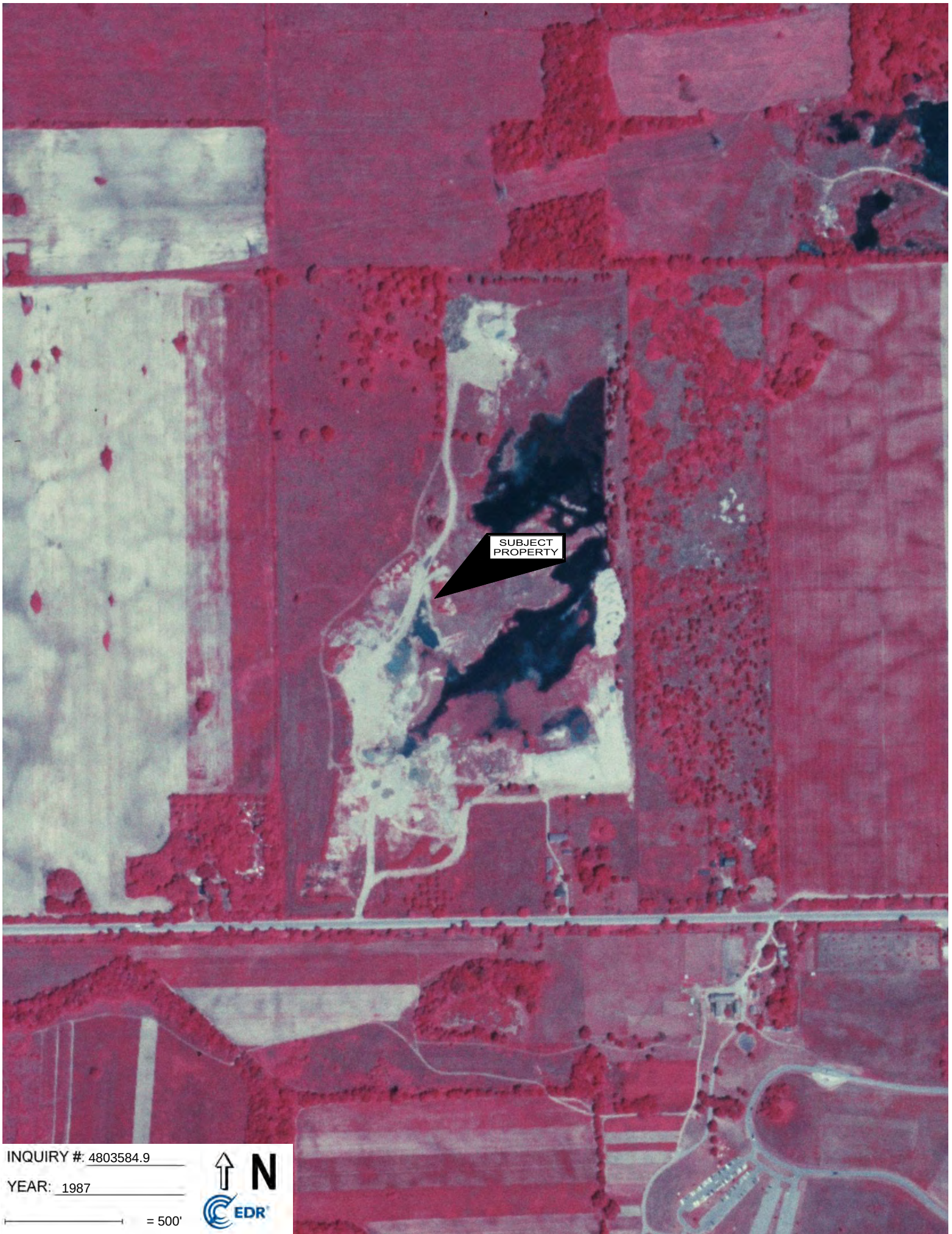


INQUIRY #: 4803584.9

YEAR: 1997

— = 500'





INQUIRY #: 4803584.9

YEAR: 1987

— = 500'





INQUIRY #: 4803584.9

YEAR: 1983

— = 500'





INQUIRY #: 4803584.9

YEAR: 1976

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1972

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1967

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1961

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1956

— = 500'





INQUIRY #: 4803584.9

YEAR: 1952

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1949

— = 500'





INQUIRY #: 4803584.9

YEAR: 1940

— = 500'





SUBJECT
PROPERTY

INQUIRY #: 4803584.9

YEAR: 1937

— = 500'



APPENDIX D

City Directory Image Report

Novi Parks - 50500 8 Mile

50500 East 8 Mile
Northville, MI 48167

Inquiry Number: 4803584.5
December 15, 2016

The EDR-City Directory Image Report



Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report 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 Report includes a search of available city directory data at 5 year intervals.

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. A check mark indicates where information was identified in the source and provided in this report.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
2013	☒	☐	Cole Information Services
2008	☒	☐	Cole Information Services
2003	☒	☐	Cole Information Services
1999	☒	☐	Cole Information Services
1995	☒	☐	Cole Information Services
1992	☒	☐	Cole Information Services
1987	☒	☐	Bresser's Cross-Index Directory Company
1982	☒	☐	Bresser's Cross-Index Directory Company
1977	☒	☐	Bresser's Cross-Index Directory Company
1974	☒	☐	Bresser's Cross-Index Directory Company

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FINDINGS

TARGET PROPERTY STREET

50500 East 8 Mile
Northville, MI 48167

<u>Year</u>	<u>CD Image</u>	<u>Source</u>
-------------	-----------------	---------------

8 MILE RD

2013	pg A2	Cole Information Services
2008	pg A5	Cole Information Services
2003	pg A8	Cole Information Services
1999	pg A11	Cole Information Services
1995	pg A13	Cole Information Services
1992	pg A16	Cole Information Services
1987	pg A18	Bresser's Cross-Index Directory Company
1982	pg A19	Bresser's Cross-Index Directory Company
1977	pg A20	Bresser's Cross-Index Directory Company
1974	pg A21	Bresser's Cross-Index Directory Company

FINDINGS

CROSS STREETS

No Cross Streets Identified

City Directory Images

8 MILE RD

2013

37440 STEVEN HICKS
 37520 GLENN MUSSARD
 37618 LYNN DONKO
 37642 OCCUPANT UNKNOWN
 38520 BRUCE FOLSOM
 38548 ROBERT MAZUR
 38626 KAMAL NAIYER
 38644 DALJIT PANYACH
 38662 CHRIS CANFIELD
 38714 OCCUPANT UNKNOWN
 39820 CHASE
 39900 FLAGSTAR BANK
 39901 CITIZENS BANK
 40000 HENRY FORD HEALTH SYSTEM
 40600 JOSEPH SYRIAC
 40640 BRIAN MACKENZIE
 40680 JEFFREY LEWIS
 40800 LARRY BENNETT
 40941 MEADOWBROOK COUNTRY CLUB
 41141 PATRICIA MAYO
 41520 FERAS FAKHOURY
 41695 OCCUPANT UNKNOWN
 41801 COLLEEN CUMMINS
 41825 FRANCESCO PELLEGATA
 41845 JANE ESKRA
 41849 STEVE MCGUIRK
 41885 MAJED YOUNES
 41901 BENT BOVING
 42340 ADRIANNE HOLLAND
 EDWARD CHAPMAN
 JAMES JOHNSON
 JOHN BACKSTROM
 MICHAEL CORRY
 STEVE ANTON
 42565 HOWARD HANCOCK
 46370 DONALD LEWIS
 46811 NORTHVILLE PUBLIC SCHOOLS
 47277 CHARLES BALD
 47500 OCCUPANT UNKNOWN
 47700 OCCUPANT UNKNOWN
 48000 JEFFREY LINDSEY
 48080 DOUGLAS TEUBERT
 48120 OCCUPANT UNKNOWN
 PICKETY PATCH THE
 48385 EDWARD LONG
 48525 GEAKE CAROL L DVM PC
 HIDDEN SPRING VTERINARY CLINIC
 48707 YVONNE ASH
 49680 DANIEL LISKIEWICZ
 KELLI COLVIN

8 MILE RD

2013

(Cont'd)

49680 MAYCREST FARM
 REX SHAFFNER
 REX SPECIALTIES
 49730 DAVID SHURTLEFF
 49875 MAYBURY CHIIDCARE CENTER
 50165 NORTHVILLE COMMUNITY FOUNDATION INC
 51410 GARY RUBY
 51451 MARK MCDONALD
 51815 JERI DRAFFEN
 51824 HAGOP VANERIAN
 51825 JEFFREY MOON
 51920 RICHARD MACLAREN
 52373 JOE MILLER
 52730 JEFFREY SHOEMAKER
 53229 OCCUPANT UNKNOWN
 53375 MARILYN TERPSTRA
 53541 OCCUPANT UNKNOWN
 53666 THURMAN AUTRY
 53667 BARBARA PRAIS
 53900 DONALD ABRAMS
 54177 JEREMY STAMP
 54181 JOEL GEMBACZ
 54280 WILLIAM MILNE
 54293 JACK BACH
 54800 DANIEL AZAR
 54850 JAMES AZAR
 54899 OUR SAVIOR APOSTOLIC LUTHERAN CHURCH
 55085 JOHN DENMAN
 55205 AGRON PALUSHAJ
 55245 JOHN ENGEL
 55275 RUSSELL ANDERSONNING
 55280 WILLIAM HANKE
 55375 JON FULTZ
 55400 OCCUPANT UNKNOWN
 55500 SPEARMANS SNOW & LAWN SERVICE INC
 55600 WERNER LANDSCAPING INC
 55645 JACOB CARTWRIGHT
 55650 DENNIS KESSLER
 55815 WILLIAM TAYLOR
 55880 OCCUPANT UNKNOWN
 56050 ROGER COTTING
 56070 CHESTER HOOVER
 56191 M GULLET
 56500 JEAN WOLICKI
 56770 OCCUPANT UNKNOWN
 56800 OCCUPANT UNKNOWN
 57100 ROGER JAMES
 57515 JOHN HOGG
 57715 LILLIAN LAKOWICZ
 57716 GEORGE SUKES

8 MILE RD**2013****(Cont'd)**

57835	STEPHEN ABAHAZY
58000	COUNTRY ESTATES MOBILE HOME PARK
	UHAUL NEIGHBORHOOD DEALER
58099	SUSAN ROBINSON
58111	SUSAN EKLUND
58161	MICHAEL MURRAY
58171	ROBERT MISSLITZ
58191	NORTHVILLE CARRIAGE CO
	STEVEN GERATY
58220	DANIELLE DAHLBACKA
	MATTHEW SIMMONS
58301	JEFFREY VOJCEK
58479	GREGORY BEABER

8 MILE RD

2008

37440 OCCUPANT UNKNOWN
 37520 GLENN MUSSARD
 37546 MOMENTUM MARKETING INC
 ROBERT WERNER
 37618 MICHAEL BOZA
 37642 OCCUPANT UNKNOWN
 38520 BRUCE FOLSOM
 38548 OCCUPANT UNKNOWN
 38626 CENTEX HOMES
 OCCUPANT UNKNOWN
 38644 DALJIT PANYACH
 38662 LARRY WAMSLEY
 38714 DAVID HANDE
 39820 BANK ONE NA
 39901 REPUBLIC BANK
 40000 HENRY FORD HEALTH SYSTEM
 HENRY FORD MEDICAL CENTER
 HENRY FORD NOVI PHYSICAL THERAPY
 40109 MARCIA FOLEY
 40600 JANE K SYRIAC MD PC
 JOSEPH SYRIAC
 40640 BRIAN MACKENZIE
 40680 MICHELE MORRIS
 40720 MARTIN LEAVITT
 40800 LARRY BENNETT
 40941 MEADOWBROOK COUNTRY CLUB
 41141 GARY MAYO
 41380 DALLAS CUSTOM UPHOLSTERING
 DALLAS TRAYWICK
 41520 HERBERT GIBBS
 41695 OCCUPANT UNKNOWN
 41801 EARL CUMMINS
 41825 FRANCESCO PELLEGATA
 41849 STEVE MCGUIRK
 41885 OCCUPANT UNKNOWN
 41901 BENT BOVING
 42340 ANDREW DAVIS
 EDWIN RENNELL
 J MALINSKI
 JACK LUHTANEN
 JOEL GREGSON
 JOHN BACKSTROM
 MABLE RING
 MARK DEAN
 MEL CHESNEY
 MICHAEL KIERNAN
 WALTER VOSS
 42565 EDWARD HANCOCK
 42777 JOHN WALLACE
 46370 DONALD LEWIS

8 MILE RD

2008

(Cont'd)

46811 MORaine ELEMENTARY SCHOOL
 NORTHVILLE PUBLIC SCHOOL DST
 47277 CHARLES BALD
 47500 OCCUPANT UNKNOWN
 47700 OCCUPANT UNKNOWN
 48000 JEFFREY LINDSEY
 48080 DOUGLAS TEUBERT
 48120 BARN ANTIQUES INC
 OCCUPANT UNKNOWN
 48385 EDWARD LONG
 48525 HIDDEN SPRING VETERINARY CLINIC
 ROGER GEAKE
 48527 GEAKE CAROL L DVM PC
 HIDDEN SPRING VETERINARY CLINIC
 RAYMOND GEAKE
 48707 YVONNE ASH
 49680 CORY OREL
 MAYCREST FARM
 REX SPECIALTIES INC
 TONI BURNETT
 49710 COLVIN SERVICES
 STEVEN COLVIN
 49730 DAVID SHURTLEFF
 50165 OCCUPANT UNKNOWN
 51410 GARY RUBY
 51450 HELEN DIETRICH
 51451 MAXINE HARRISON
 51815 ROSE BARNHART
 51824 MARK GONYEA
 51825 JEFFREY MOON
 51860 CAROL TWEADEY
 WINTON ASSOCS SERVICES
 51920 RICHARD MACLAREN
 RICHARD MACLAREN MD
 52373 MATTHEW JABERO
 52730 OCCUPANT UNKNOWN
 53229 DANNY COOK
 53375 MARILYN TERPSTRA
 53541 OCCUPANT UNKNOWN
 53666 OCCUPANT UNKNOWN
 53667 BARBARA PRAIS
 53670 AUTRY MANAGEMENT CO
 OCCUPANT UNKNOWN
 53900 OCCUPANT UNKNOWN
 54181 JOEL GEMBACZ
 54293 JACK BACH
 54800 DANIEL AZAR
 54850 CRAIG SCHRAMECK
 54899 OUR SAVIOR APOSTOLIC LUTHERAN CHURCH
 55085 JOHN DENMAN

8 MILE RD

2008

(Cont'd)

55245	JOHN ENGEL
55275	CURTIS PAQUETTE
55280	WILLIAM HANKE
55375	NORMAN FULTZ
55400	RANDY RUSSELL
55500	SPEARMANS SNOW & LAWN SERVICE INC
55600	WERNER LANDSCAPING INC
55645	WILLIAM OSBORNE
55650	DENNIS KESSLER
55815	WILLIAM TAYLOR
55880	CONSTANTINO DELSIGNORE
56050	ROGER COTTING
56070	F & M CARPENTRY SERVICE & DOOR
	J VELLA
	P SIZEMORE
56191	GENE LUND
56500	ROBERT ZALEWSKI
56770	DARYL HOWELL
56800	OCCUPANT UNKNOWN
57100	LAURA JAMES INC
	MOTORCITY CAD
	ROGER JAMES
57515	WILLIAM HOGG
57715	JOSEPH LAKOWICZ
57716	GEORGE SUKES
57835	OCCUPANT UNKNOWN
58000	COUNTRY ESTATES OF NORTHVILLE LLC
	COUNTRY STORAGE
	HUTTO INVESTMENTS
58099	T MATEN
58161	MICHAEL MURRAY
58171	ROBERT MISSLITZ
58191	GAEL WALLACE
58200	DOUGLAS BURLEY
58220	DATALINK PAYMENT SOLTNS LLC
58301	OCCUPANT UNKNOWN
58479	GREGORY BEABER

8 MILE RD

2003

37520 GLENN MUSSARD
 37546 ROBERT WERNER
 37618 LYNN BOZA
 37642 MICHAEL ADAMCZYK
 38520 BRUCE FOLSOM
 38548 OCCUPANT UNKNOWN
 39900 RAINBOW CHILD DEVELOPMENT CTR
 39901 COMERICA BANK
 REPUBLIC BANK
 40000 HENRY FORD HEALTH SYSTEM
 HENRY FORD HOSPITAL
 OCCUPANT UNKNOWN
 40075 KEVIN EICHHOLTZ
 40109 MARCIA FOLEY
 40141 OCCUPANT UNKNOWN
 40600 SYRIAC JOSEPH
 40640 BRIAN MACKENZIE
 40680 OCCUPANT UNKNOWN
 40941 WAYNE JACKSON
 41141 GARY MAYO
 41380 DALLAS UPHOLSTERING
 MICHELE SJOHOLM
 41520 HERBERT GIBBS
 41695 ROBERT STILES
 41720 LUIS MEJIA
 OCCUPANT UNKNOWN
 41750 JOHN YOUNG
 41801 EARL CUMMINS
 41825 FRANCESCO PELLEGATA
 PELLEGATAS LANDSCAPING & DSGN
 41845 JOHN ESKRA
 NEW RAINBOW STEPS
 41849 STEVE MCGUIRK
 41885 MARTINUZZI CONSTRUCTION
 OCCUPANT UNKNOWN
 41901 BENT BOVING
 42340 DOMINIC ANDREONI
 DONALD KEEN
 ELAINE JOHNSON
 J MALINSKI
 JEFF MICHEL
 JOEL GREGSON
 JOSEPH PERVENECKIS
 JOSEPH SCIOLI
 42565 EDWARD HANCOCK
 NATURES NICHES INC
 42777 JOHN WALLACE
 43243 BLUE STAR AUCTION CO
 DOLORES YANOVER
 46370 DONALD LEWIS

8 MILE RD

2003

(Cont'd)

46370 LEWIS TRUCKING
 46811 MARAINE ELEMENTARY SCHOOL
 NORTHVILLE PUBLIC SCHOL DST
 47277 ELIZABETH BALD
 48000 CHRISTINA ZAYTI
 48080 TIMOTHY BOSTWICK
 48120 BARN ANTIQUES
 DOUGLAS TEUBERT
 PICKETY PATCH
 48385 EDWARD LONG
 48525 HIDDEN SPRING VETERINARY CLNC
 OCCUPANT UNKNOWN
 48527 GEAKE CAROL L DVM PC
 RAYMOND GEAKE
 48707 YVONNE ASH
 49680 CORY OREL
 MAYCREST FARM
 REX SPECIALTIES INC
 VERNETTA BURNETT
 49710 K COLVIN
 49730 WALTER HIXON
 49875 WILLIAM ALLAN ACADEMY
 50165 OCCUPANT UNKNOWN
 50500 EUGENE LUCAS
 51000 CITY OF NOVI CMNTY SPRT PARK
 51410 GARY RUBY
 51450 EDWARD DIETRICH
 51451 OCCUPANT UNKNOWN
 51630 JAMES ANDREWS
 51815 RICHARD SHARPE
 51824 MARK GONYEA
 51825 JEFFREY MOON
 51860 WINTON SUGG
 51920 MACLAREN RICHARD MD
 RICHARD MACLAREN
 52373 MAUREEN ERCKMAN
 52730 BERTE BAKER
 53229 DANNY COOK
 53375 OCCUPANT UNKNOWN
 53541 PHILIP PISTO
 53666 THRUMAN AUTRY
 53667 BARBARA PRAIS
 53670 THURMAN AUTRY
 53900 DORIS ABRAMS
 54181 JOEL GEMBACZ
 54293 JACK BACH
 54433 VIRGINIA PARTRIDGE
 54800 DYNAMIC LAWN CARE INC
 JEANETTE AZAR
 54850 SAMUEL AZAR

8 MILE RD

2003

(Cont'd)

54899 OUR SAVIOR APSTLC LTHRN CHRCH
 55085 JOHN DENMAN
 55245 JOHN ENGEL
 55275 OCCUPANT UNKNOWN
 55280 WILLIAM HANKE
 55375 NORMAN FULTZ
 55400 RANDY RUSSELL
 55500 WALTER WALZ
 55600 DAVID WERNER
 WERNER LANDSCAPING INC
 55635 OCCUPANT UNKNOWN
 55645 TAMARA WIRTHLIN
 55650 DENNIS KESSLER
 55815 WILLIAM TAYLOR
 55880 LYNN DELSIGNORE
 56050 ROGER COTTING
 56070 OCCUPANT UNKNOWN
 56191 IVAN GULLET
 MICHELLE GULLET
 56500 ROBERT ZALEWSKI
 56770 BRANDON HOWELL
 56800 BEVERLY KNEALE
 56801 NORTHVILLE CROSSING MNFCTRD
 57100 ROGER JAMES
 57515 WILLIAM HOGG
 57715 JOSEPH LAKOWICZ
 57716 GEORGE SUKES
 57835 TIBOR ABAHAZY
 58000 COUNTRY STORAGE LLC
 HUTTO INVESTMENTS
 58001 DONALD DIETRICH
 58099 RICHARD CAIN
 58161 MICHAEL MURRAY
 58171 ROBERT MISSLITZ
 58191 ELIZABETH VERNASCO
 NORTHVILLE CARRIAGE CO
 58220 COUNTRY ESTATES OF NRTHVL LLC
 MERCHANT MONEY
 PATRICK AFFLECK
 58301 BRYAN HAIGHT

8 MILE RD

1999

37546 CURTIS WERNER
37618 MICHAEL BOZA
38520 BRUCE FOLSOM
38548 BETTY MAZUR
39820 N BD BANK
39901 BRANCHES
40000 HENRY FORD HEALTH SYSTEM
40033 OCCUPANT UNKNOWN
40075 OCCUPANT UNKNOWN
40109 STEVEN DAVIS
40141 RUSSELL LYON
40720 ALLIED BG SERVICE COMPANY
40941 MEADOWBROOK COUNTRY CLUB
41141 P MAYO
41261 PENN ENTERPRISES INCORPORATED
ROBERT BURKHARDT
41695 ROBERT STILES
41720 DAVID PULLEN
41801 EARL CUMMINS
41825 FRANCES PELLEGATA
41845 JOHN ESKRA
41849 OCCUPANT UNKNOWN
41885 MARTINUZZI CONSTRUCTION
41901 BENT BOVING
42340 ANDREW BUCZYNSKY
DEANNA ASH
EDWIN RENNELL
JOHN TELEPO
WILLIAM HELLMAN
42430 JAMES MIKO
42565 EDWARD HANCOCK
43243 DOLORES YANOVER
46370 DONALD LEWIS
46811 NORTHVILLE PUB SCHOOLS MORaine ELEM SCHOOL
NORTHVILLE PUBLIC SCHOOLS
47277 P KERSTEN
47500 OCCUPANT UNKNOWN
47700 OCCUPANT UNKNOWN
48080 MEYER BERRY FARM
OCCUPANT UNKNOWN
48120 BARN ANTIQUES THE
JOSEPH BATTAGLIA
48385 EDWARD LONG
48525 GEAKE CAROL L DVM PC
HIDDEN SPRING VETERINARY CLINIC
RAYMOND GEAKE
48707 YVONNE ASH
49680 COUNTRY CRAFT COMPANY
REX SPECIALTIES INCORP
STEVEN COLVIN

8 MILE RD

1999

(Cont'd)

49875	WILLIAM ALLAN ACADEMY INCORPORATED
50165	JOHN BEEMER
50225	MICHIGAN STATE OF NATURAL RESOURCES DEPARTMENT OF
51410	GARY RUBY
51450	EDWARD DIETRICH
51451	MARK MCDONALD
51628	DEBORAH PHILBIN
51630	ANDREWS JAMES FREV
	JAMES ANDREWS
51815	LISA LALINSKY
51825	OCCUPANT UNKNOWN
51860	WINTON SUGG
51920	OCCUPANT UNKNOWN
52730	BERTE BAKER
	CARL ESCHENBRENNER
53375	PETER TERPSTRA
53666	THRUMAN AUTRY
53667	OCCUPANT UNKNOWN
53900	DONALD ABRAMS
54181	J GEMBACZ
54280	WILLIAM MILNE
55500	SPEARMANS BOB SNOW & LAWN SERVICE INCORPORATED
55600	WERNERS GREENHOUSE
58220	COUNTRY ESTATES MOBILE HOME PARK
	COUNTRY STORAGE L L C

8 MILE RD

1995

37520 OCCUPANT UNKNOWNN
 37546 HEUSER, FRANCES E
 38190 HOLLOWAY, DAN
 38210 OCCUPANT UNKNOWNN
 38250 HALIW, ANDREW J
 38300 BENNINGER, ROBERT
 38520 OCCUPANT UNKNOWNN
 38548 MAZUR, BETTY J
 38640 KOCAJ, BERNARD
 39040 BARBER, ROBERT J
 39820 NBD BANK
 39861 MATTISON, FRANCES A
 39875 STRAUB, SARA H
 39900 RAINBOW RASCALS LEARNING CTR
 39901 OCCUPANT UNKNOWNN
 40000 MEADOWBROOK OB GYN
 METRO MEDICAL GROUP
 STEVEN J FRIEDMAN DO
 40033 KOSTICH, J
 40075 OCCUPANT UNKNOWNN
 40100 AMERICAN CONTRACTING
 BANKER, DENNIS F
 SHAPERO, RAY A
 WILLIAMS, DAVID
 40109 OCCUPANT UNKNOWNN
 40141 CUTSINGER, JERRY
 LYON, RUSSELL
 NORTHWEST GAGE & ENGRNG
 40200 BONNER, J M
 40205 JAMES, GEORGE E
 40280 ISENBURG, CHARLES R
 40440 OCCUPANT UNKNOWNN
 40720 ALLIED BUILDING SVC CO
 40941 MDWBRK CNTRY CLUB
 MEADOWBROOK COUNTRY CLUB
 41141 CALLIGRAPHY BY MAYO
 41261 AUDIO VISIONS
 41380 DALLAS CUSTOM UPHOLSTERING
 41801 CUMMINS, EARL
 41825 PELLEGATA, F
 41845 ESKRA, JOHN
 41849 HOWARD, JOSEPH B
 41885 G & R MASONRY
 MARTINUZZI CONSTRUCTION CO
 41901 BOVING, BENT G
 42565 HANCOCK, EDWARD J
 43243 RESIDENTIAL MAINTENANCE INDS
 YANOVER, DOLORES
 45401 CROLL, J A
 45441 FUNKE, ED

8 MILE RD

1995

(Cont'd)

45601 MARCHESOTTI, DELFINE
 45625 BARR, WILLIAM D
 46811 MORaine ELEMENTARY SCHOOL
 46860 EBEL, LORNE
 46870 MILLINGTON, ALFRED
 46871 TRAVIOLI, JAMES N
 46878 VANHELLEMONT, GEORGE
 46910 HIX, ARNOLD
 46920 BANKS, DANIEL E
 46921 ELLCESSOR, MACK
 46923 FULTON, RONALD
 46975 MCMULLEN, JERRY
 47000 FRY, RONALD
 47040 HORST, DOUGLAS F
 47041 OCCUPANT UNKNOWNNN
 47060 HIERHOLZER, LAWR R
 47085 SAMMUT, MICHAEL J
 47100 GRIFFITH, ROBERT G JR
 47133 BRETZ, ROBERT W
 47149 ROSS, HERBERT L
 47150 HAPPLEY, RAYMOND J
 47199 OCCUPANT UNKNOWNNN
 47230 RUFFNER, RICHARD L
 47260 LAING, WILLIAM
 47277 KERSTEN, ROBERT M
 47300 EARLY, KARL
 47305 DEAN, K
 47500 J J ZAYTI TRUCKING
 48000 ZAYTI & ASSOC
 48080 MEYER BERRY FARM
 48525 CYNTHIA EICHMAN DVM
 LORIE B DEGRAZIA DVM
 SMALL ANIMAL VETERINARIANS
 49680 COUNTRY CRAFT CO
 REX SPECIALTIES INC
 50155 SCHNOB, GILES
 50165 BEEMER, JOHN F
 50191 LETOURNEAU, ALBERT T
 50225 NATURAL RESOURCES DEPT
 50255 COLE, WENDY
 50265 OCCUPANT UNKNOWNNN
 50285 OCCUPANT UNKNOWNNN
 50286 MYERS, WILLIAM D
 50577 CARATELLI, ROBERT
 50666 LETOURNEAU, ALBERT
 50700 MATLEY, RICHARD G
 50750 WRIGHT, N
 50855 VISNYAK, ZOLIE
 50888 GLADDEN, WILLIAM D
 50900 KUDYBA, VICTOR J

8 MILE RD**1995****(Cont'd)**

50910	YOUNG, CHARLES M
50991	CASSEL, CARL
51000	SZUR, LORETTA
51105	EMINGER, GORDON
51175	HINES, ROBERT L
51300	LUBE, THOMAS
51410	RAKESTRAW, L K
51451	MCDONALD, MAXINE
52373	HUNTOON ACRES
55500	BOB SPEARMANS SNOW & LAWN SVC
55600	WERNER LANDSCAPING INC
	WERNER LANDSCPNG
	WERNERS GREENHOUSE
56070	GRN RDG LNDSCPG
58220	COUNTRY ESTATES MOBILE HOME

8 MILE RD

1992

37520 MUSSARD, GLENN
 37546 HEUSER, DONALD J
 38520 HOLCOMB, CLEMENT R
 38548 MAZUR, BETTY J
 39901 COMERICA BANK
 40033 KOSTICH, J
 40100 BANKER, DENNIS F
 MURPHY, MOIRA
 OELLER, W
 SHAPERO, RAY A
 40141 LYON, RUSSELL
 NW GAGE&ENGINEERNG
 40440 DAVIS, RICHARD L
 40640 BERTONI, ANDREW A
 SANTILLI, LYDIA C
 40720 SCAPPATICCI, A
 40941 MDWBRK CNTRY CLUB
 41141 MAYO, P
 41271 HAGAN, JAMES V
 41380 TRAYWICK, DALLAS E
 41520 DOLENGA, GARY
 41695 STILES, ROBERT J
 41720 PULLEN, DAVID
 41825 PELLEGATA, F
 41846 PASSMORE, JOHN
 41849 HOWARD, JOSEPH B
 41885 G&R MASONRY
 MARTINUZZI CNSTRCT
 41901 BOVING, BENT G
 42340 CLINTON, JULIE
 FLEMING, ALICIA
 GULLO, RICHARD
 PARENT, MONICA
 PASHAK, D
 42565 HANCOCK, EDWARD J
 43243 YANOVER, DOLORES
 46370 LEWIS, DONALD F
 46811 MORaine ELEM SCHL
 47700 WALTER, PAT
 48000 ZAYTI, J J
 48080 MEYER, L
 48385 LONG, EDWARD C JR
 48525 DR CAROL L GEAKE
 48707 ASH, EDWARD
 49680 SHAFFNER, REX
 49875 A WILLIAM ACDMY
 50165 BEEMER, JOHN F
 50225 ST NTRL RSRCS DPT
 51410 RAKESTRAW, L K
 51451 MCDONALD, MAXINE

8 MILE RD

1992

(Cont'd)

51630	ANDREWS, JAMES F
51813	DANESHVAR, YOUSEL
51815	DANESHVAR, YOUSEF
51824	ARQUETTE, DEAN
51825	MOON, JEFFREY
52373	LASZLO, M
53375	TERPSTRA, PETER
54183	POMMIER, ROGER
55085	LALLY BROS LNDSCPG
55600	WERNER LANDSCPNG
	WERNERS GREENHOUSE
56070	GRN RDG LNDSCPG
58220	COUNTRY EST MBL HM
	PARAMOUNT HMS INC

8 MILE RD

1987

40680	JERRY J HUCULAK	9	3499293
40720*	ALLIED BLDG		3493210
	A SCAPPATICCI		3496275
41380*	DALLAS UPHLSTRY		3498311
	DALLAS E TRAYWICK	8	3482008
41520		NP	
41720	DAVID PULLEN		3491022
41750*	THOMAS BLEET ASSOC		3485551
	JACKIE YOUNG	1	3480671
42000	42100 42250	NP	
42580	42640	NP	
42700	LEONARD E RICKETTS		3492144
42766		NP	
42780	CHARLES D JENKINS	2	3498356
43000		NP	
43300	W B CHASE		3493171
	MRS W B CHASE	8	3489584
	CLINTON COLBERT	□	3495235
●●●●●●R R 3●●●●●●			48167
47500*	J J ZAYTI TRUCKING		3490360
47700	JOHN STANFORD	3	3484408
48000	J J ZAYTI		3490922
48080*	MEYER BERRY FARM		3490289
	LAWRENCE L MEYER	9	3493496
48120	HOWARD F MEYER		3498149
48420*	JOKERS M C CLUB		3499713
48422	48948 49680	NP	
50250	KEN GRIWICKI	2	3483426
50500		NP	
51000	JACKIE I KELLY	3	3494824
●●●●●●R R 1●●●●●●			48167
51450	EDWARD DIETRICH	0	3486107
51451	M MCDONALD	1	3496327
51825*	BLUE GRASS FARMS		4642080
	35 RESIDENCE	8	BUSINESS

8 MILE RD 1982

40640	ANDREW A BERTONI	3491708
	L C SANTILLI	□3482898
	MIKE WALTER	9 3483625
40680	JERRY J HUCILLAK	9 3499293
40720	GERALD FLANNIGAN	3494926
41380*	DALLAS LPHLSTRY	3498311
	DALLAS E TRAYWICK	8 3482008
41520		NP
41720	DAVID PULLEN	3491022
41750	JOHN A YOUNG	8 3496197
42000	42100 42250	NP
42300*	COUNTRY PLACE	-3493040
42580	M J MCLAUGHLIN	7 3493236
42640		NP
42700	LEONARD E RICKETTS	3492144
42766	ROBIN PEAVEY	-3497487
42780	HERBERT KOESTER	3493072
43000		NP
43300	W B CHASE	3493171
	MRS W B CHASE	8 3489584
	CLINTON COLBERT	3495235
	R R 3.....	48167
46370	46500	NP
47500*	J J ZAYTI TRUCKING	3490360
47700	SKIP DEMULL	-3480277
48000	J J ZAYTI	6 3490922
48080*	MEYER BERRY FARM	3490289
	LAWRENCE L MEYER	9 3493496
48120	HOWARD F MEYER	3498149
48420*	JOKERS M C CLUB	□3499713
48422		NP
48948	F M DERRICK	3495490
49680	DAVE PINK	3495245
	JEFFREY PINK	□3486732
50250	50500	NP
51000	WILLIAM LANCASTER	8 3482245
	39 RESIDENCE	6 BUSINESS

8 MILE RD

1977

41380		NP	
41520	JAN REEF		FI90554
41720		NP	
41750	HAROLD MOGRIDGE		3491628
42000		NP	
42100		NP	
42250		NP	
42300		NP	
42580	A FREDK MCLAUGHLIN		3493236
42640		NP	
42700	LEONARD E RICKETTS		3492144
42766		NP	
42780	HERBERT KOESTER		FI93072
43000	EDWARD J APPLETON		3489510
43300	W B CHASE		3493171
	CLINTON COLBERT		3495235
	R R 3.....		48167
46370		NP	
46500		NP	
46811	*MORRAINE ELEM SCH		3492084
47500	J J ZAYTI		3490922
47700	LEON LEACH		FI90353
48120	HOWARD F MEYER		3490289
48420	ROBERT W CURVIN	4	3491909
48422		NP	
48948	F M DERRICK	8	3495490
49680	DAVE PINK	7	3495245
50250	DONALD KREEGER	2	3490306
50500		NP	
51000	P SUMMERS		3490548
	38 RESIDENCE	2	BUSINESS

8 MILE RD

1974

40640	ANDREW A BERTONI	FI91708
	TERRY HARPER	■3498937
40720	GERALD FLANNIGAN 0	3494926
	RAYMOND J SNAY JR3	3494353
41380		NP
41520	JAN REEF	FI90554
41720	DAVID PULLEN	FI91022
41750	HAROLD MOGRIDGE	3491628
42000		NP
42580	A F MCLAUGHLIN	3493236
42640	JOSEPH ANDOLORO	■3491266
42700	LEONARD F RICKETTS	3492144
42766		NP
42780	HERBERT KOESTER	FI93072
43300	W B CHASE	3493171
	MRS W B CHASE	3497556
	CLINTON COLBERT	3495235
	R R 3.....	48167
46370		NP
47500	J J ZAYTI	3490922
	*J J ZAYTI TRUCKING	FI90360
	*ZAYTI PARTS&SERV	■3498230
47700	LEON LEACH	FI90353
48000	*HARRISON ENGNRG DV	■3498440
48420	DONALD R AULD 0	3497469
	ROBERT W CURVIN 7	3491909
48948	F M DERRICK 8	3495490
49680	DAVE PINK 7	3495245
50250	DONALD KREEGER 3	3490306
50500		NP
51000	LARRY TAULBEE	■3490548
	31 RESIDENCE 6	BUSINESS

APPENDIX E

Certified Sanborn Map Report



Novi Parks - 50500 8 Mile

50500 East 8 Mile

Northville, MI 48167

Inquiry Number: 4803584.3

December 12, 2016

Certified Sanborn® Map Report



6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/12/16

Site Name:

Novi Parks - 50500 8 Mile
50500 East 8 Mile
Northville, MI 48167
EDR Inquiry # 4803584.3

Client Name:

ECT
3399 Veterans Drive
Traverse City, MI 49684
Contact: Dirk Mammen



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by ECT were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 27EE-4F20-94ED

PO # NA

Project NA

UNMAPPED PROPERTY

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



Sanborn® Library search results

Certification #: 27EE-4F20-94ED

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others 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

The Sanborn Library LLC Since 1866™

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APPENDIX F

Site Photographs



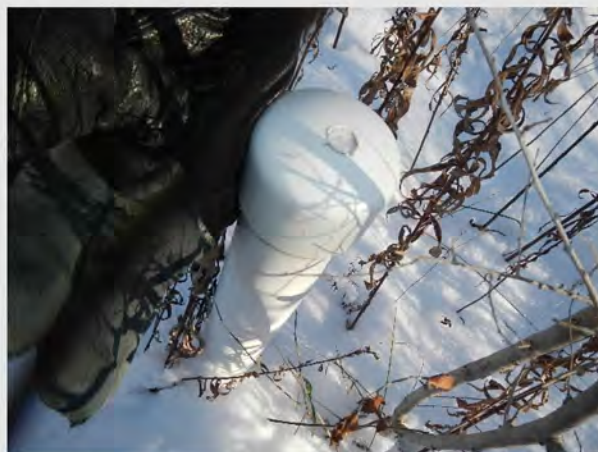
S to N from gate area along 8 Mile Road.



Typical view across cleared portion of the property.



Some wooded areas along the perimeter.



Stand-up PVC groundwater monitoring well.



Former farm home area, SE corner.



Stand-up PVC vapor point with nozzle.



On site tool trailer with debris.



Small quantity of waste oils in too trailer.



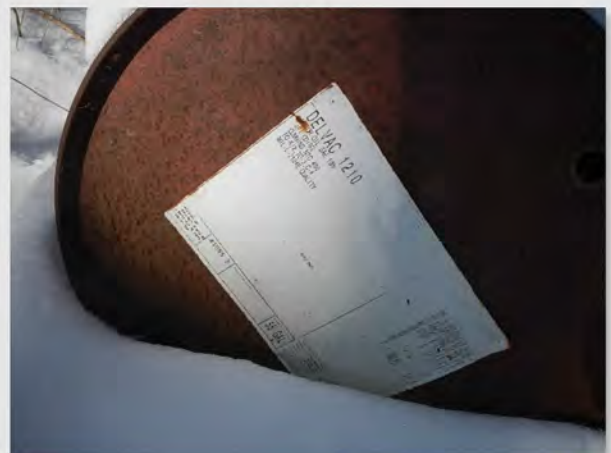
Abandoned drums, S side of property.



Debris along S side of property.



Waste tires along S side of property.



Waste drum, marked oil, S side of property.

APPENDIX G

Resume

DIRK S. MAMMEN, ESQ.
Principal Scientist

Education

J.D., Law—Detroit College of Law, 1996
B.S., Geological Sciences—Michigan State University, 1984

Registrations

State Bar of Michigan (P51219)
OSHA HAZWOPER 40-hour and 8-hour refresher training
Hazardous Waste Operations Supervisors and Managers Certificate
Sanitary Landfill Design Certificate
Asbestos Awareness Program Certificate No. 189-2

Dirk Mammen, Esq. is a licensed attorney and accomplished scientist having nearly 30 years of experience in the performance, coordination, and management of environmental assessment and compliance projects throughout the United States. Included among these has been work performed on behalf of the Wayne County Airport Authority at both Detroit Metro and Willow Run Airports, where Mr. Mammen has served as the authority's principal point of contact since 2004 involving underground storage tank (UST) removal, spill response, assessment and compliance evaluations, drum identification and removal, and remediation of surface fuel spills, to name a few. Mr. Mammen also offers extensive experience managing a wide variety of real estate transactional due diligence assessments and ensuring compliance with the ASTM standard for environmental site assessments (ESAs) and the All Appropriate Inquiry Rule issued under the Comprehensive Environmental Response, Compensation, and Liability Act. Mr. Mammen's legal training and research skills positions him well for due diligence evaluations, evidence and document management, and risk management activities, and his expertise has been utilized in the quality assurance/quality control of hundreds of Phase I ESAs prepared on behalf of developers, communities, regulatory agencies and industrial clients nation-wide.

Project Director; Environmental Site Assessments, Various Clients—Coordinated, managed, or performed over 1,200 ESAs for lending institutions, law firms, private industry, municipal organizations, construction developers, and private interests. Sites include vacant properties, manufacturing and industrial facilities, small to very large commercial buildings, landfill and dump sites, municipal garages, and other UST and hazardous material sites. Sites located throughout the United States, primarily the Midwest, upper Midwest, and Rocky Mountain regions.

Project Director; Large Scale Due Diligence Assessment, Chevron U.S.A., Inc.—Designed, coordinated and implemented a specialized due diligence assessment process in support of a large scale property and asset transfer, including the potential transfer of over 60 natural gas production facilities and 1,800 natural gas wells across the State of Michigan. Evaluation activities included site visual inspections, detailed spill history reviews, and extensive environmental database compilation.

AREAS OF SPECIALIZATION

Geology, Hydrogeology, Soils Contamination Assessments, Groundwater Monitoring and Contaminant Assessments, Environmental Site Assessments, Property Acquisition/Transfer Environmental Management and Risk Management, Underground Storage Tank Closure and Remediation Investigations, Project Management

Project Director; Demolition Assessment and Environmental Services, Wayne County Airport Authority—Directed and managed the environmental

assessment and hazardous materials management processes associated with the abatement and demolition of select buildings at Detroit Metropolitan Airport. Activities included the presentation of detailed facility inspections, the preparation of abatement and demolition specifications, assistance with the demolition contractor bidding and selection process, and the performance of demolition monitoring and dust control activities.

Project Scientist; 10 Mile Drain Investigation & Remediation, Macomb County Public Works Office—

Completed detailed environmental assessment activity and in-depth historical research investigation in an effort to evaluate historical and current sources of polychlorinated biphenyl (PCB) materials impacting the drain system. Performed an investigation of the 10 Mile Drain storm sewer to characterize the nature and extent of PCB contamination. The investigation consisted of soil boring placement and soil sample collection in areas immediately adjacent to the drain system, as well as stormwater and sediment monitoring within the sewer, a corridor survey (aerial photograph, interviews of local residents and historic land use review) to determine the potential source of the contamination, and an inspection of the sewer condition using closed circuit televising.

Project Scientist; Environmental Services, Wayne County Airport Authority—Performed, coordinated, and/or managed numerous environmental assessment or environmental compliance projects at both Detroit Metro Airport and Willow Run Airport, including UST removal, spill response, assessment or compliance evaluations and miscellaneous drum identification and removal actions. Performed remediation activity associated with surface fuel spills and subsurface release during new terminal construction activity resulting from historical hydrant fuel system.

Project Manager; Bulk Oil Terminal Release and Site Reconstruction, Knight Enterprises/Delta Fuels—Managed all environmental assessment, remediation, and compliance issues resulting from a 100,000-gallon gasoline overfill event, impacting both onsite and offsite area in Toledo, Ohio. Site involved federal and state regulatory action. The secondary containment system was replaced with approximately 3,000 linear feet of high density polyethylene liner. Managed and designed the construction and permitting for an onsite water treatment and remediation system. Provided regulatory compliance assistance, including the preparation and implementation of treatment, storage, and disposal facility closure plan; spill prevention, control, and countermeasure plan; and facility response plan.

Project Scientist; Due Diligence Manager, ITC (International Transmission)—Managed and completed all land acquisition projects related to electric utility expansion throughout the Midwest (Michigan, Iowa, Kansas, and Minnesota), including Phase I/II ESAs, baseline environmental assessments (BEAs), and Transaction Screen Plans (TSP) on a variety of sites, both active electrical utility sites and undeveloped acreage. Included corridor study assessment activity, detailed title work review, and significant area wide impact investigations.

Project Scientist; Brownfield Redevelopment Authority, Various Michigan Counties—Performed site investigations, due diligence services, due care analyses, and other assessment services for numerous municipal brownfield redevelopment authorities throughout the lower and upper peninsulas of Michigan. Sites included manufacturing facilities, an abandoned paper production site, a power plant property, and landfill property. Facilitated Michigan Department of Environmental Quality (MDEQ) negotiated no further action (NFA) under the due care process.

Project Manager; Transformer Release and Remediation, Federal Aviation Authority—Responded to the release of transformer oil to the ground surface and subsurface as a result of vandalism at Detroit Metro Airport. Provided site assessment, soil and water remediation, and risk assessment activities. Coordinated the assessment, removal, and appropriate disposal of the electrical equipment and completed PCB risk evaluation. Presented closure documentation to the local, state, and federal regulatory agencies involved with the project.

Project Scientist; Manufactured Gas Plant (MGP) Site Assessment and Risk Evaluation, Michigan Consolidated Gas Company—Performed site investigations, exposure evaluations, and risk assessments at former MGPs as part of a complex effort to implement a plan for the investigation of 23 sites located throughout Michigan. The plan is designed to meet the company's obligations under Michigan's requirements to diligently pursue response activities. Conducted records searches and other information gathering; prepared site summary reports; prioritized all 23 for further investigation; provided oversight of a Geoprobe investigation at 9 of the 23 sites; and formulated a plan, including a budget and schedule, for response activities at all 23 sites.

Project Director; Large-Scale Area Wide Phase I ESAs, Various Clients—Completed six large-scale area wide Phase I ESAs on specific residential housing redevelopment areas in the City of Detroit, Michigan. Each area wide assessment involved the potential acquisition of from 80 to 230 vacated residential lots within certain redevelopment neighborhoods. The area wide assessment approach involved the historical and regulatory evaluation of all properties located within a specific grid or block area, followed by an individual assessment of each acquisition parcel in relation to the environmental conditions of the area. A review of all available historical documentation was performed, including Sanborn fire insurance maps, historical aerial photographs, street index directories, Federal Emergency Management Agency flood zone maps, zoning documentation, building, assessment, and fire department records, and specific title documentation. Assisted with parcel identification and quality of title issues, with all parcels having been or slated to be reverted to City of Detroit ownership. Compiled comprehensive assessment reports for each assessment area, including detailed maps and parcel summaries. Prepared all applicable Michigan State Housing Development Authority (MSHDA) applications and environmental documentation for submittal. The projects were completed on time to conform to MSHDA deadlines and within budget.

Project Director/Manager; Phase II ESA Activity, Various Clients—Coordinated, managed, or performed over 600 Phase II ESAs onsite throughout the Midwest, including industrial and commercial properties, residential properties, and rails-to-trails corridors. Sites ranged in size from very small lots to large acreage developments. Chemical impacts evaluated include petroleum products, solvents and various dense non-aqueous phase liquid (DNAPLs), PCBs, and various metals. Completed baseline environmental assessments on numerous Michigan sites.

Project Manager; Site Characterization and Investigation, Remedial Investigation/Feasibility Study (RI/FS); Property Developer (Confidential Client)—Managed and performed site investigation, RI/FS, and remedial design activities on a former solvent recycling and treatment, storage and disposal RCRA facility. Soil and groundwater impacts evaluated, with onsite and offsite risk assessment.

Project Director; Site Characterization and Investigation, Remediation and Site Closure; Ryder Truck Rental, Inc.—Managed or performed all phases of site investigation activities for petroleum-related contamination at numerous Midwest locations. Activities included feasibility analysis, and remedial design and implementation primarily pertaining to onsite and offsite low temperature thermal desorption and groundwater treatment.

Project Manager; Landfill Condition and Design Assessment, Allstate Insurance Company—Performed a landfill inspection in Weld County, Colorado, regarding condition, operations, and management and future cell design review for new bond issue considerations and liability limitations.

Project Manager; Site Assessment and Property Transfer Management—Performed all phases of site assessment activities on site in Detroit, Michigan, with numerous historical industrial uses in order to facilitate plant demolition, remediation, and redevelopment. Strong legal and financial influence and regulatory agency involvement, including covenant-not-to-sue negotiations and property risk management settlements.

Project Manager; Site Investigation, Remedial Design, and Risk Management; Bulk Oil Storage Facility—Performed site assessment activities of a large bulk oil storage terminal in Michigan with significant legal and financial institution involvement. Provided remedial design alternatives, with an emphasis on *in situ* bioremediation enhanced groundwater and soil treatment using a variety of horizontal boring techniques and reapplication of the bioenhanced medium.

Project Manager; ESA, Front Range Airport Development (Confidential Client)—Performed an ESA on over 4,000 acres of land for future development in eastern Colorado. Assessment included site investigation, historical review, regulatory review, and recommendations.

Project Manager; Surface Water and River Sediment Investigation-Detroit River, City of Gibraltar (Confidential Client)—Performed all phases of field and reporting investigation for a section of river reportedly impacted by numerous chemical contaminants from nearby and upstream industries. Investigation included sample location plan, sediment and water collection and analysis, data interpretation, and environmental impact and assessment recommendations.

Project Manager; Hydrocarbon Remediation Investigation, Kubat Equipment and Service Company—Performed functions related to UST removal, closure soil sampling, contaminant assessment and reporting, monitoring well placement, hydrogeologic investigation, and remedial action design and implementation for large county UST facility in Jefferson County, Colorado.

Expert Witness; Soil and Groundwater Conditions, Risk Management; Confidential Client—Provided expert testimony relating to subsurface petroleum and solvent contamination impacts on neighboring properties, allegedly resulting from a number of potential offsite and former onsite sources.

Expert Witness; Groundwater Conditions, D & T Construction Company—Provided expert testimony and consulting regarding alleged groundwater mounding and depletion impacts during construction activities, specifically related to the diminished capability of nearby drinking water wells.

Quality Control Technician; Landfill Construction at Various Disposal Sites—Provided onsite quality control activities during the construction of landfill lines and berms on numerous disposal facilities throughout southeast Michigan and northern Ohio.

Project Manager; Site Investigations and Regulatory Compliance Assessments, Marigold Foods/Kemps Ice Cream—Performed numerous site investigations and regulatory compliance assessments of dairy product storage and production facilities in Wisconsin, with particular emphasis on corporate operations transfer, worker safety issues, and waste water treatment difficulties.

Project Manager; Site Characterization and Remediation Investigation and Design, Sosnick Development (Confidential Client)—Performed site characterization and remedial investigation on property prior to high-rise tower construction in southeast Michigan. Completed soil and groundwater sampling for past contamination resulting from large volumes of trichloroethylene (TCE) spilling and leaking. Prepared remedial design of contaminated groundwater collection and treatment system.

Project Manager; UST Site Characterization Investigations, Shell Oil Company—Performed site characterization studies at numerous Shell service station facilities in southeast Michigan, including utility locate diagrams, soil borings and sampling, field analysis, and reporting and recommendations.

Project Manager; Hydrogeologic Investigations, Mobil Oil Company—Performed hydrogeologic investigations of Mobil facilities in southeast Michigan related to groundwater contamination resulting from UST impairment. Investigations included monitoring well placement, groundwater characteristic determination, water sampling and analysis, reporting, and recommendations.

Project Manager; UST Closure and Contaminant Assessments, Venta and Conoca Oil Companies—Performed numerous site closure assessments in Colorado, including soil boring studies, hydrogeologic investigations, remedial design and remediation, soil venting system design and

placement, regulatory agency interfacing, reporting, and recommendations.

Presentations

Mammen, D.S. 1990. Environmental Issues, Financial Risks, and Lender Liability. Presented at FDIC (Federal Deposit Insurance Corporation), Denver, Colorado; September 1990.

Mammen, D.S. 1990. Environmental Site Assessments. Presented at National Association of Industrial and Office Parks (NAIOP - Michigan); March 1990.

Mammen, D.S. and Mosher, R.E. 1989. Environmental Impact of Road Salt Usage as a Winter Street De-Icer - Case Study: Buckhorn Lake, Orion Township, Oakland County, MI. Presented and Published at Conference and Exhibition on Pollution Control Technologies, Detroit, Michigan; October 27, 1989.