

# Phase I Environmental Site Assessment

Bull Corner

2853 Orchard Highway

Manistee, MI

January 20, 2025

**Prepared For:**

**Little River Band Of Ottawa Indians**

**2608 Government Center Drive**

**Manistee, MI 49660**

**USEPA Cooperative Agreement No. 4W00E03457**

**Gosling Czubak Project # 240218**

CIVIL ENGINEERING

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## ATTACHMENTS

Att. 1	Site Location Map
Att. 2	User Questionnaire
Att. 3	Topographic Maps
Att. 4	Site Photographs
Att. 5	EDR Environmental Database Search Report
Att. 6	Aerial Photographs
Att. 7	Sanborn Fire Insurance Maps
Att. 8	Property Tax Records
Att. 9	Owner Questionnaire

## Executive Summary

Gosling Czubak Engineering Sciences, Inc. (Gosling Czubak) conducted a Phase I Environmental Site Assessment (ESA) for the Little River Band of Ottawa Indians (LRBOI) pursuant to our proposal dated October 22<sup>nd</sup>, 2024. The approximate 35.1-acre subject property known as Bull Corner, parcel ID #07-127-005-00 is in Section 27, T22N, R16W, Manistee, Manistee County, Michigan.

The subject property is currently a mixture of forested area and improved residential property. Adjoining properties are currently used for commercial, residential, and agricultural purposes.

The Phase I ESA has revealed evidence of recognized environmental conditions (RECs) associated with the subject property. The following constitute RECs in connection with the property:

- Based on historical aerial photographs, the subject property appears to have historically been utilized as an orchard. The aerial photos reveal that the orchard was present by at least 1938. The historical presence of an orchard on-site represents a potential environmental concern. Lead, arsenic, and chlorinated organic pesticides are known to have historically been used for pest control in orchards, and these contaminants can potentially remain in the soil. This historical orchard constitutes a REC in connection with the subject property.
- The salt located in the south side of the garage building is a REC in connection with the property. The chloride associated with salt has potential of contaminating the surrounding environment.
- The chemicals located in the red barn building east of the garage structure are recognized as a REC in connection with the subject property. There is evidence of staining on the floor of the building. The potential of these chemicals contaminating the surrounding environment is a concern.
- The abandoned tires on the property grounds impose a concern due to the potential of chemicals leaching into the environment from the tires. The dumped tires on the property are considered a REC.
- Several barrels reside on the property, primarily east of the garage building. The potential of these barrels to previously had or currently harbor chemicals constitutes a REC in connection with the subject property. There is concern of contamination of the surrounding environment.

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- According to anecdotal evidence and a Baseline Environmental Assessment (BEA) previously performed in 2006, gasoline and diesel fuel underground storage tanks (USTs) were previously located at the subject property. The area was a historical fueling area. The results presented in the 2006 BEA found volatile organic vapors indicative of a petroleum hydrocarbon release on the northern historic fueling area on the property. This previously recognized contamination constitutes a potential REC in connection with the subject property.
  - Soil samples were taken as a part of the Phase II ESA previously conducted, targeting the area nearby the historical orchard. These samples found elevated concentrations of arsenic, exceeding drinking water protection and direct contact cleanup criteria. Additionally, arsenic concentrations detected at this time exceeded background concentrations that would be expected for the area. This known contamination constitutes a REC in connection with the subject property.
  - In the previously performed BEA, the former presence of a gasoline UST south of a small shed east of the main residence was found to be a REC. During the 2006 investigation, it was mentioned that as a part of the Due Care Plan, soils will be investigated in this area. A Due Care Plan following up the 2006 BEA was not retrieved by Gosling Czubak for review. The presence of a former UST in this area is considered a REC.

## 1.0 INTRODUCTION

### 1.1 Purpose and Scope of Services

This report presents the findings of a Phase I Environmental Site Assessment (ESA) of the corner property located at 2743-2853 Orchard Highway, Manistee, Michigan. An aerial site location map is included in Attachment 1. This assessment was performed to provide an independent, professional opinion regarding *RECs* (as defined by ASTM E 1527-21 Section 1.1.1), *CRECs* (as defined by ASTM E 1527-21 Section 3.2.17) and *HRECs* (as defined by ASTM E 1527-21 Section 3.2.39), in connection with the site.

### 1.2 Scope of Services

The scope of work for this Phase I ESA was based on the scope and limitations of (ASTM) Standard Practice E 1527-21 and included the following:

- An evaluation of historical property usage. Material from county, state, and federal records was researched and reviewed. Contact was made with local and/or state health and environmental agencies to determine if any hazardous materials incidents had occurred on or in the area of the subject property, including storage, treatment, disposal, or release of hazardous materials. Others who were knowledgeable about the property or local area and who were made available to Gosling Czubak were interviewed in an effort to determine prior use of the subject property, as well as to assess whether hazardous substances had been used or released at the site.
- A site visit to assess current conditions, including identification of observable onsite hazardous or harmful materials and to evaluate potential indicators of hazardous substance or petroleum product storage, use, generation, or release on the subject property or areas or structures on adjoining properties. Observations and assessments of stressed vegetation, evidence of waste discharge or collection, fill materials, sink holes, wells, etc. are included within this report, if they were observed.
- Report preparation that presents details regarding the contacts made, information obtained, data findings, and other pertinent information. Based upon findings, the report includes an opinion regarding the potential for environmental impairment associated with the subject property.

According to ASTM Standard Practice E 1527-21 Section 1.1.1, the term *REC* means 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. De minimis conditions are not *RECs*, *CRECs* (as defined below), or *HRECs* (as defined below).

*CRECs* are defined as conditions 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 *HREC* is defined as a past release of any hazardous substances or petroleum products that has occurred in connection with the 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 property to any required controls (for example, property use restrictions, activity and use limitations, institutional controls, or engineering controls).

The guideline used for the definition of “hazardous substance” was obtained from Section 20101(1)(x) of the Natural Resources and Environmental Protection Act (NREPA, P.A. 451 of 1994, as amended) and includes:

- A substance which poses an unacceptable risk to the public health, safety, or welfare, or the environment, considering the fate of the material, dose-response, toxicity, or adverse impact on natural resources;
- Hazardous substances as defined in the comprehensive environmental response, compensation, and liability act of 1980, Public Law 96-510, 94 Stat. 2767 (CERCLA);
- Hazardous waste defined in Part 111 (NREPA); and
- Petroleum as described in Part 213 (NREPA).

### 1.3 Significant Assumptions

In accordance with ASTM Standard E1527-21 a current United States Geological Survey (USGS) 7.5 Minute Topographic Map was reviewed to evaluate the physical setting surrounding of the site. Gosling Czubak personnel analyzed surface features on the topographic map, and the likely direction of

groundwater flow has been inferred. The direction in which groundwater is anticipated to flow has been considered in the formation of opinions regarding potential environmental impacts to the property. However, actual groundwater flow direction at the property may vary from the anticipated flow direction; therefore, site specific measurements of groundwater flow direction may be warranted when significant sources of environmental impact are identified in close proximity to the property.

There have been no other significant assumptions made in conducting this Phase I ESA.

## 1.4 Limitations and Exceptions

Access to the subject property and subject property buildings was limited at the time of the site visit. The eastern garage building structure could only have its southernmost area accessed. Other doors in this building were locked at the time of the site visitation, and therefore, the building could not be fully inspected for potential concerns. Additionally, the single-family residence structure had several areas that could not be accessed due to potential safety concerns. The conditions of concern noted were visibly deteriorated and collapsing flooring and ceilings and mold. The garage area on the multi-family residential building could not be fully accessed. A complete visual inspection of the property could not be carried out due to the quantity of materials stored inside and outside of some of the subject property buildings and sheds. Evidence of a REC may have been hidden by the material storage piles, or other miscellaneous items currently residing inside and outside of buildings.

At the time of the site visit, leaf debris and snow covered many areas, limiting visuals of the ground, and evidence of a REC may have been hidden within the dense ground coverage and weather conditions that were present at the time of the visit.

These limitations do not represent a significant limitation to the subject property.

## 1.5 Special Terms and Conditions

Our client, Little River Band of Ottawa Indians, has requested an environmental site assessment as an environmental due diligence practice. This assessment did not include a formal evaluation of “non-scope” considerations, including, but not limited to: floodplains, radon, asbestos, lead in drinking water, lead-based paints, or emerging contaminants.

Based on review of the 1954 aerial photograph, at least two of the current structures were located at the subject property in 1954. Based on the year of construction, the site visit performed by GCES personnel, the feedback from the owner questionnaire, and our professional experiences with similar projects, it is likely that asbestos and/or lead based paint had been present on and within the structure. No pertinent support documentation pertaining to the maintenance and demolition of the structure was provided. This non-scope consideration and brief description should not be interpreted or considered to be a comprehensive asbestos or lead based paint survey. To confirm the presence of asbestos or lead based paint within the existing structures, one would have to perform this additional study in accordance with applicable laws and regulations.

Information obtained for this ESA is only relevant as of the date of records review and of the site reconnaissance. The information contained herein is only valid as of the date of the report and may require revisions to reflect updated records or subsequent site visits.

The client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The findings and conclusions presented in this report are predicated on the results of site reconnaissance, review of regulatory records, historical usage of the site, and conversations with knowledgeable parties. The absence of significant indicators suggesting that hazardous substances or petroleum products have impacted the site does not preclude their presence. Therefore, this report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of this ESA is made, either expressed or implied, in any correspondence, consultation, or within the content of this report.

It is possible that, even with conformance to the process requirements of ASTM E1527-21, conditions could exist on or near the subject property which could not be identified within the scope of the assignment or are not reasonably identifiable from readily available information.

This report is only intended to assist the user in making a reasonable assessment of risk with respect to potential environmental impact at the subject property. The information given in this report is based upon a review of documents and information reasonably available concerning the subject property, as presented. Portions of this assessment are based upon information that has been reported by persons claiming to have knowledge of the property. No warranty, either expressed or implied, is made as to the reliability or accuracy of the information obtained from outside sources.

## 1.6 User Reliance and Responsibilities

This report is prepared for the benefit of, and pursuant to, an agreement between, Gosling Czubak Engineering Sciences, Inc. and its client, Little River Band of Ottawa Indians. Any use of this report by additional parties, or for any purposes other than that stated within this report, is expressly prohibited and not anticipated by Gosling Czubak. The use of, or reliance upon, this report by additional parties does not make any such party a beneficiary of the agreement(s) between Gosling Czubak and its client and is undertaken at such party's own risk, unless otherwise stated. No expressed or implied warranties, guarantees, or representations are made to any such additional parties.

### 1.6.1 User Provided Information

The property representative, Mr. David Karst, completed the User Questionnaire provided by Gosling Czubak. This questionnaire contains information pursuant to the user's responsibility described in Section 6.0 of the ASTM Standard E 1527-21, Standard for Environmental Site Assessment. The user completed questionnaire can be found within Attachment 2.

The answers provided by Mr. Karst are summarized in the sections below.

#### 1.1.1.1 Environmental Liens or Activity and Use Limitations

The client did not report any (1) environmental cleanup liens against the property that are filed or recorded under federal, tribal, state or local law or (2) Activity and land use limitations (AUL), 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.

Gosling Czubak reviewed a list of Enforcement Liens maintained by the Michigan Department of the Environment, Great Lakes & Energy (EGLE), Remediation and Redevelopment Division (RRD) for evidence of environmental liens on the subject property. No evidence of environmental liens on the subject property were indicated during our review on November 19<sup>th</sup>, 2024.

#### 1.1.1.2 Specialized Knowledge or Experience

The client did not report any specialized knowledge or experience related to the subject property or nearby properties.

#### 1.1.1.3 Property Valuation

As this assessment is not related to purchase of the property, it was indicated that property valuation was not applicable under the current circumstances.

#### 1.1.1.4 Known Uses

The client reported that the property was formerly used as an orchard. Mr. Karst reported that he was unsure of any specific chemicals that are present or once were present at the subject property.

#### 1.1.1.5 Chemical Releases, Spills or Environmental Cleanups

The client reported that he was unsure of any spills or other chemical releases that have taken place at the subject property, and that he did not have knowledge of any environmental cleanups that have taken place. The client stated that as the user of the ESA, based on his knowledge and experience related to the property, metals associated with the orchard and SFR are obvious indicators that point to the presence or likely presence of contamination at the property.

## 2.0 PHYSICAL SETTING

The subject property commonly known as 2853 Orchard Highway is located within Section 27, T22N, R16W, Manistee Township, Manistee County, Michigan. The USGS topographic maps which encompass the subject parcel are included in Attachment 3.

### 2.1 Site and Vicinity General Characteristics

The subject property is located within a commercially, residentially, and agriculturally developed area at the corner of Orchard Highway (M-22) and Chippewa Highway (US-31). The subject property is across from the Little River Casino Resort Hotel. North and East of the subject property are mixed with undeveloped forested land.

### 2.2 Topographic and Geological Conditions

A current USGS 7.5 Minute Topographic Map showing the area where the property is located was reviewed. According to the USGS Topographic Map, Onekama Quadrangle, the topography of the area is slightly undulating, with a steep south facing escarpment bordering the Manistee River valley. The Manistee River valley is approximately ¼ mile south of the subject property. The topography of the subject area is generally flat with an approximate property elevation of 694 feet above mean sea level.

The subject property is located within an area consisting of glacial outwash sand and gravel and postglacial alluvium. The dominant soil composition in the general area of the subject property is Rubicon sand. Rubicon sand consists of high infiltration rates and soils are deep, and well drained to excessively drained sands and gravels. These soils are underlain by Ellsworth shale bedrock.

The nearest surface water body feature to the subject property is the Manistee River, located approximately 0.4 miles to the south of the subject property.

### **2.3 Current Use of the Subject Property**

There is a single-family residential dwelling on the property, along with a migrant housing building. Both structures have been abandoned, as indicated by the representative that has completed the owner questionnaire. There is a large garage, and two storage sheds on the property. The southern garage building and storage structures are being utilized for storage. Additionally, two vehicles were parked west of the garage at the time of the visit, appearing to be stored there. Photographs depicting current property conditions are presented in Attachment 4.

### **2.4 Current Uses of Adjoining Properties**

The adjoining properties consist of commercial properties, residential properties, and vacant raw land. The subject property is bordered by the following properties:

- North – Vacant/improved residential property (3013 Orchard Hwy & parcel ID: 07-122-013-00)
- Northwest- Dontz Road
- Northwest- Residential vacant property (parcel ID: 07-121-015-00)
- East – Vacant/improved residential properties (parcel ID: 07-127-004-50, 2928 Chippewa Hwy)
- Southeast – Chippewa Hwy followed by residential properties
- South – Chippewa Hwy followed by Little River Holdings LLC (2608 Government Center Dr)
- South – BP Gas Station (2596 Loon Rd)
- West – Orchard Hwy followed by Little River Casino Resort Hotel (2700 Orchard Hwy)

## 3.0 GOVERNMENT RECORDS REVIEW

### 3.1 Standard Environmental Record Sources

Data from standard federal and state environmental records sources are provided through a search of environmental records meeting or exceeding the specific requirements of ASTM Standard Practice for Environmental Site Assessments, E1527-21. The database search report was prepared by Environmental Data Resources Inc. (EDR) of Shelton, Connecticut. A copy of the EDR report is presented in Attachment 5.

A review of the federal and state environmental records listed below identified fifteen (15) sites within the minimum search distances (MSD) provided. Some of the listed sites appear on multiple databases. A review of unmapped sites did not identify any sites within the minimum search distances that could potentially impact the environmental conditions at the subject property.

A summary of database search findings is presented below:

STANDARD ENVIRONMENTAL RECORD SOURCES	MINIMUM SEARCH DISTANCE (MSD)	SITES IDENTIFIED
Federal NPL Site List	1.00 mile	None
Federal Delisted NPL Site List	0.50 mile	None
Federal CERCLIS List (Active)	0.50 mile	None
Federal CERCLIS NFRAP List	0.50 mile	None
Federal RCRA CORRACTS Facilities list	1.00 mile	None
Federal RCRA TSD Facilities List	0.50 mile	None
Federal RCRA Generators (Large, Small, Very Small and Non-Generators) List	Subject Property and Adjoining Properties	<b>1 Site</b>
Federal Institutional / Engineering Controls Registries	Subject Property	None
Federal ERNS List	Subject Property	None
State Part 201/Tribal Haz. Waste Sites Lists	1.00 mile	None

STANDARD ENVIRONMENTAL RECORD SOURCES	MINIMUM SEARCH DISTANCE (MSD)	SITES IDENTIFIED
State/Tribal SWF/Landfill Site Lists	0.50 mile	None
State/Tribal LUST Lists	0.50 mile	None
State/Tribal UST/AST Lists	Subject Property and Adjoining Properties	<b>1 Site</b>
State/Tribal Engineering Controls Registry	Subject Property	None
State/Tribal Institutional Controls Registry	Subject Property	None
State/Tribal Voluntary Cleanup Sites	0.50 mile	None
State/Tribal Brownfield Sites	0.50 mile	None

EDR searched additional reasonably ascertainable databases. A summary of findings is listed below:

ADDITIONAL ENVIRONMENTAL RECORD SOURCES	MINIMUM SEARCH DISTANCE (MSD)	SITES IDENTIFIED
State Other (BEA)	0.50 mile	<b>1 Site</b>
Local Brownfield lists	0.50 mile	<b>1 Site</b>
Local Lists of Landfill / Solid Waste Disposal Sites	0.50 mile	<b>2 Sites</b>
Local Lists of Hazardous waste / Contaminated Sites (Part 201)	1.00 mile	<b>6 Sites</b>
Local Lists of Hazardous waste / Contaminated Sites (Inventory)	0.50 mile	<b>1 Site</b>
Local Lists of Hazardous waste / Contaminated Sites (DEL Part 201)	1.00 mile	<b>1 Site</b>
Local Land Records (LIENS, LIENS2)	Subject Property	None
FINDS	Subject Property	None
ECHO	Subject Property	None
WDS	Subject Property	None

ADDITIONAL ENVIRONMENTAL RECORD SOURCES	MINIMUM SEARCH DISTANCE (MSD)	SITES IDENTIFIED
NPDES	Subject Property	None
EDR Exclusive Records (EDR Hist Auto)	0.125 mile	<b>1 Site</b>
Unmapped (Orphan) Sites	0.50 mile	<b>4 Sites</b>

### 3.1.1 Subject Property Listings

The EDR database report did identify the subject property on the BEA, Part 201, and Inventory database lists. Reviewing the BEA documentation from 2006, the conditions that formed the basis of the previous BEA are considered applicable grounds to constitute a current REC in connection with the subject property.

### 3.1.2 Adjoining Property Listings

Several adjoining properties are listed on the referenced database lists. The BP Station, also listed as the Little River Trading Post, is recorded to be 252 feet away, and is south of the subject property. This location has listings as an EDR Hist Auto site and an Indian UST site. Due to the site being downgradient of the expected groundwater flow of the subject property, this site is not considered to be at risk of being a REC in connection with the subject property.

An EDR listed site under the name Little River Band Dump #5 is located an estimated 1163 feet south of the subject property, and this location is listed on the HIS Open Dumps database. Due to the location being south of the subject property and expected to be downgradient of the expected groundwater flow of the subject property, it has not been considered to be an expected REC in connection with the subject property.

Neisen & Revolt Products BA is located approximately 0.226 miles north of the subject property, and is listed on the US Brownfields and FINDS databases. The projected groundwater flow to the east at this site is projected to eliminate concern of this property constituting a REC in connection with the subject property.

The Little River Casino Resort is located west of the subject property, on the west side of Orchard Highway and is listed on the RCRA-VSQQ and ECHO databases. Due to the projected groundwater

flow to be south of this site, and the subject property being east, it is not projected that this site constitutes a REC in connection with the subject property.

The northwest adjoining property, listed at the LRB of Ottawa Indians PW Grounds, is listed at a DEL Part 201 sit. The delisted status of the site has dismissed concern of its potential of constituting a REC in connection with the subject property.

### 3.1.3 Other Sites within Minimum Search Distances

Based on information provided within the EDR report, it was determined that the other sites within the minimum search distances from the subject property are not expected to have an adverse environmental impact on the subject property. These findings were based on the direction and distance of the identified site from the subject property; status of the regulatory response activities that have occurred at the properties; known or inferred groundwater flow direction in the subject property area, and barriers, structures or boundary conditions located between the identified site and the subject property.

### 3.1.4 Unmapped or Ophan Sites

EDR listed four (4) unmapped sites within the city or county of the subject property. Based on Gosling Czubak's review of the information provided, the unmapped sites do not appear to represent a REC in connection with the subject property.

## 3.2 Additional Governmental Record Sources

The following additional environmental record sources were consulted to obtain additional information concerning environmental conditions at the subject property.

### 3.2.1 EGLE Dataminer

The State of Michigan Department of EGLE – Oil, Gas, & Minerals Division maintains an online database of permitted oil, gas and mineral well locations. Gosling Czubak reviewed this database for the subject and adjoining properties and found no records of onsite oil, gas, or mineral well drilling activity on the subject property. On the northern adjoining property, a well was drilled for geological testing. The nature of this drilling activity does not constitute a REC in connection with the subject property. The other oil wells located on the western and eastern adjoining properties have not been considered to constitute a REC in connection with the subject property.

## 4.0 HISTORICAL RECORDS REVIEW

The objective of consulting historical sources is to develop a history of the previous uses of the subject property and adjoining parcels in order to evaluate potential *RECs*, *CRECs* or *HRECs*. Standard Historical Sources reviewed as required under ASTM 1527-21 are those historical sources that are reasonably ascertainable and likely to be useful. These sources are discussed below.

### 4.1 Aerial Photographs

Aerial photographs from 1938, 1954, 1965, 1977, 1986, 1993, 1998, 2006, 2009, 2012, 2016, and 2020 were reviewed as part of this ESA. Aerial photographs prior to 1938, if any exist, were not readily available for review and inclusion within this report. The aerial photographs were provided by EDR. Copies of the aerial photographs are included within Attachment 6, and details are discussed below:

DATE	AERIAL PHOTOGRAPH REVIEW
1938	A western patch of the subject property is utilized as an orchard. East and north of the orchard is a patch of land cleared of vegetation. South of the southeast corner of the orchard is a visible structure, and potentially a second. South of the structure there are trails leading to the southwest corner, where another building structure stands. The eastern portion of the subject area is forested, as well as the adjoining property east and north of the subject parcel. There appears to be a narrow access trail on the eastern portion of the wooded area, off of US. 31. Orchards border the subject property to the west and south.

DATE	AERIAL PHOTOGRAPH REVIEW
1954	Four building structures are visible, all of which are south of the plot of land area utilized as an orchard. There is an access route coming off of US. 31. Other structures/items are scattered within the area where the structures are, although they are not identifiable from the aerial view. The orchard has remained, as well as the forested area on the east portion of the parcel. At the southern corner of the property the area has been cleared of vegetation. Areas west, northwest, and south of the property are still utilized for orchards/agriculture. There are more developed structures east of the subject property, following up US. 31.
1965	East of the orchard in the area cleared of vegetation are two additional building structures, and roads/trails traversing the clearing. Some trees have grown in the cleared area north of the orchard. The orchard west of the subject property appears to have been retired, as well as the area south of the subject property. Additional developed structures that appear to be utilized for housing have come up east of the subject area.
1977	At least six building structures are visible. The northwest adjoining property has retained an orchard, and the other surrounding land has been retired and appears to be used for agriculture. The orchard on the subject property looks less prominent, but still exists. North and east of the subject property is still forested, however there is an increasing number of presumable residential structures off of Orchard Hwy north of the subject area.
1986	The building structures east of the orchard area have been removed, and the cleared has been utilized for agricultural space. Some of the southern adjoining properties have become forested, while some is still being utilized for agricultural use. There are two visible structures that are discernable as buildings.

DATE	AERIAL PHOTOGRAPH REVIEW
1993	There does not appear to be significant changes to the subject property and the surrounding area between 1986 and 1993.
1998	There does not appear to be significant changes to the subject property and between the dates of 1993 and 1998. It appears that the adjoining property south of the subject area has had some of the forested growth thinned.
2006	The area that once was occupied by the orchard appears to no longer be maintained and is growing in. The two structures are still standing, and the rest of the subject area is forested. West of the subject property, the Little River Casino Resort has been constructed, occupying much of the space that was used for agricultural purposes at one time. Northwest of the subject property, the previous orchard appears to no longer be maintained. South of the subject property, the adjoining property is growing in with trees, and there is a small area with signs of development.
2009	There does not appear to be significant changes to the subject property between the dates of 2006 and 2009. It appears the area around the two structures has been maintained, and the area once utilized for orchard has continued to grow in. South of the subject property there is a developed lot with some buildings. Northwest of the subject property, it appears the trees that once made up the orchard have been removed.
2012	There does not appear to be significant changes to the subject property and surrounding area between the dates of 2009 and 2012. The southern adjoining property appears to have a large area cleared of vegetation with intentions of new construction. The casino west of the subject area has expanded parking on its southern side.

DATE	AERIAL PHOTOGRAPH REVIEW
2016	There does not appear to be significant changes to the subject property and surrounding area between the dates of 2012 and 2016. The adjoining property south of the subject area has building structures and parking lots developed.
2020	There does not appear to be significant changes to the subject property and surrounding area between the dates of 2016 and 2020, other than some continued development at the southern adjoining property.

A review of the aerial photographs did identify unusual items or conditions for the subject property.

- The 1954 through 1986 aerial photographs indicate that an orchard was formerly located on the subject property. The historical presence of an orchard represents a potential environmental concern. Lead, Arsenic and chlorinated organic pesticides are known to have historically been used for pest control in orchards, and these contaminants can potentially remain in the soil. This historical orchard represents a REC to the subject property.

## 4.2 Historical Fire Insurance Maps

Due to the subject property and vicinity being generally rural and outside of the city limits, historical fire insurance maps showing the subject property and vicinity were not available. Certification as an unmapped property is included in Attachment 7.

## 4.3 Property Tax Files

According to the Manistee County online tax parcel search map, the subject property consists of one parcel with parcel ID # 07-127-005-00 and is owned by Little River Band of Ottawa Indians. A copy of the local tax information was obtained through the Manistee County online parcel search. A copy of the property tax record can be found within Attachment 8.

## 4.4 Historical Topographic Maps

The U.S. Geological Survey (USGS) 1954 “Manitowoc, Wisconsin; Michigan”, 1956 15-minute quadrangle map “Onkama”, 1958 “Manitowoc, Wisconsin; Michigan”, 1976 7.5-minute quadrangle map “Onkama”, 1982 7.5-minute quadrangle map “Onkama”, 1983 30 X 60 minute quadrangle map

“Manistee”, 2012 7.5-minute quadrangle map “Onekama”, 2014 7.5-minute quadrangle map “Onekama”, 2017 7.5-minute quadrangle map “Onekama”, 2019 7.5-minute quadrangle map “Onekama”, and 2023 7.5-minute quadrangle map “Onekama” were reviewed to obtain information concerning the land usage history of the site and surrounding area. The orchard on the subject property and the adjoining properties can be observed on the 1956, 1958, and 1982 maps. Evidence of the orchards on the adjoining western properties can continue to be observed on the 1983 map. Development of the surrounding parcels can also be observed. Copies of the Topographic Maps are included in Attachment 3.

## 4.5 Local City Directories

Local City Directories were not obtained as a part of the Phase I Environmental Site Assessment. This resource is typically available in more developed and/or metropolitan areas. Due to the historically rural nature of the property, a city directory search was not conducted.

## 4.6 Building Department Records

Upon request for building records for the subject property from the Manistee Township clerk, the clerk informed Gosling Czubak personnel that the subject property was acquired by the Little River Band of Ottawa Indians prior to the township establishing their current building and permit office. Therefore, the township does not have any records of permits for the property. A Freedom of Information Act (FOIA) request made to the District Health Department #10 yielded several records. One record dated for 1993 was regarding well permitting, and the plugging of an existing well. Water well and pump records from 1993 were also obtained. Sewage permits from 1989 were obtained, showing four 300-gallon dry wells. It is listed on these records that they are for migrant housing.

## 4.7 Zoning/Land Use Records

According to the Manistee County 2024 Parcel Information, the subject property class is 401 – Residential Improved. According to the Manistee Township Zoning Map (effective: 2009), the property is zoned Little River Band Parcels.

## 4.8 Other Historical Sources

Baseline Environmental Assessment (BEA) documents were retrieved from the Michigan Department of Environment, Great Lakes, and Energy (EGLE) RIDE Mapper. The BEA was completed on October

19<sup>th</sup>, 2006. The Phase I Environmental Site Assessment (ESA) accompanying the BEA was completed on October 13<sup>th</sup>, 2006. These assessments were completed by Environmental Consultants & Services, Inc. of Traverse City, MI. At the time that the ESA was completed, four RECs were identified on the property. These RECs are summarized as follows:

- *The historic use of the property and adjacent land as orchards where lead arsenate may have been applied is a REC*
- *The former presence of gasoline and diesel fuel USTs at the norther fueling area is a REC*
- *The former presence of a gasoline UST south of a small shed east of the main residence is a REC*
- *The presence of stained soil around the garage and the historic fueling area is a REC*

During the Phase II ESA, regulated substances in the soil were found to exceed regulation limits, therefore defining the property as a “facility”.

Review of the BEA and ESA documents provided further historical information regarding the subject property. According to the BEA, the property was purchased in the 1940s for the intended use of orchard operations. The orchard operated as a partnership known as Jebavy/Sorensen. After the owners of the partnership died, it was sold to Old Orchard Investments, Inc. in 1977 or 1978. In 1981, John Bull of Manistee Orchards purchased the property and operated it until the late 1990s or early 2000s. On August 31<sup>st</sup>, 2006, the LRBOI purchased the property from Manistee Orchards. At the time of this review, a farmhouse and former maintenance garage utilized for orchard operations were located on the south part of the property. Routine maintenance and repairs were conducted at the garage for the orchard vehicles and equipment. There were two fueling areas that formerly contained underground storage tanks (USTs) on the property, and it stated that at the time, the USTs had been removed several years prior. During their review, one above ground storage tank (AST) was located on the south side of the maintenance garage, and it was used to store heating oil. The oil had been recycled and the tank was empty.

## 4.9 Historical Data Failures

According to the latest ASTM standard, historical research is complete when either the objective of developing a history of previous uses of the subject and adjoining properties has been achieved, or data failure is encountered. Data failure of identifying historical uses at five-year intervals back to first use or 1940 was not encountered during this assessment.

5.0 SITE RECONNAISSANCE

The objective of the site reconnaissance is to obtain information indicating the likelihood of identifying *RECs*, *CRECs* or *HRECs* in connection with the subject property.

5.1 Methodology and Limiting Conditions

The methodology used during the site reconnaissance consisted of a site walk-over, physically observing indicators of past and current use(s) of the property and adjoining properties, geologic, hydrogeologic, hydrologic, and topographic conditions, and potential *RECs*, *CRECs* or *HRECs*, if any, in connection with the subject property.

Ms. Fern Sexton, Project Scientist with Gosling Czubak, conducted part of the site reconnaissance independently on December 18<sup>th</sup>, and part of the reconnaissance was conducted accompanied by the property representative Mr. David Karst, on December 19, 2024. The weather was approximately 32°F and overcast at the time of the site visit. There was some snow coverage on the grounds surface. Copies of photographs taken during the site reconnaissance are presented in Attachment 4.

The subject property was viewed to the extent practical by walking in a grid pattern and using the 2020 aerial photograph to assist in evaluating and identifying physical features of the subject property. Gosling Czubak did not encounter any specific conditions that restricted review of the subject property.

5.2 General Site Setting

Descriptions of site improvements and current and past uses of the subject property and adjoining properties were discussed in Sections 2.1 through 2.5 and are consistent with observations during the site reconnaissance.

5.3 Exterior Observations

Based on observations of the exterior of the subject property at the time of the site visit, the following items were noted and evaluated.

FEATURES WITH POTENTIAL ENVIRONMENTAL CONCERN	OBSERVED?
Above ground storage tanks (ASTs)	No

FEATURES WITH POTENTIAL ENVIRONMENTAL CONCERN	OBSERVED?
Discharges of water/wastewater/other liquids	No
Drums or containers over five-gallon capacity	Yes
Dumping, soil piles, or site filling	Yes
Fuel dispensers	No
High-voltage powerlines	Yes
Odors	No
Pipeline markers	Yes
Pits, ponds or lagoons	No
Railroad tracks or spurs	No
Septic systems or cesspools	No
Stained soil or pavement	No
Stressed vegetation	No
Solid waste, trash, or other debris	Yes
Underground storage tanks (USTs), fill ports, or vent pipes	No
Wash, mixing or cooling pads	No
Water supply or monitoring wells	Yes

### 5.3.1 Water and Sewer Systems

The subject property has a private well, and the pump can be observed in the photolog. Information about the sewer system on the site and other information related to utilities should be confirmed with the site owner before any plans of construction are enacted.

## 5.4 Interior Observations

The subject property currently contains a multi-story residential building, a multi-residential building, a garage/barn style building, and two storage sheds.

Based on observations of the interior of the subject property at the time of the site visit, the following items were noted and evaluated. It is important to note that not all parts of the buildings' interior could be observed during the site visit due to inaccessibility.

FEATURES WITH POTENTIAL ENVIRONMENTAL CONCERN	OBSERVED?
Above ground storage tanks (ASTs)	No
Air compressors	No
Generation of solid or liquid wastes	No
Drums or containers over five-gallon capacity	Yes
Dry wells or sumps	No
Elevators	No
Floor drains or trench drains	Yes
Fuel dispensers	No
Hydraulic presses or lifts	No
Incinerators	No
Grinders, screw machining, lathes	No
Metal plating tanks	No
Odors	No
Oil/water separators	No
Paint booth	No
Part cleaners or washers	No
Pits	No
Stained or corroded concrete or flooring	Yes
Storage of chemical, petroleum or other potentially hazardous substances	Yes
Treatment systems	No
Underground storage tanks (USTs), fill ports, or vent pipes	No



FEATURES WITH POTENTIAL ENVIRONMENTAL CONCERN	OBSERVED?
Water supply or monitoring wells	Yes

#### 5.4.1 Hazardous Substances and Petroleum Products

There were chemicals being housed in the garage and storage sheds, several of which were not identified. Storage of engine lubricating fluids, a barrel identified to be ether, and another container of chemicals labeled with poison were identified.

#### 5.4.2 Heating Fuel

The subject property buildings are heated via natural gas furnaces. It is unclear if heating fuel is located on the property.

#### 5.4.3 Solid and Liquid Waste Generation

The generation, storage or disposal of liquid or solid waste was observed at the subject property. Generation and storage of solid waste includes storage of dumped materials. Several filled trash bags were observed to be piled in the garage space, and other dumping was observed outside of the garage. The dumped materials located in several areas of the property has potential for environmental contamination concern and has been identified as a potential REC in connection with the subject property.

#### 5.4.4 Potable Water Supply and Sewage Disposal System

There is a private well located on the subject property, east of the multi-story residential structure. There is a private septic system on the subject property.

### 6.0 INTERVIEWS

The objective of interviews is to obtain information, regarding the subject property, that may indicate the presence of a *REC* in connection with the subject property.

#### 6.1 Interview with Current Owner

The interview that is typically conducted with the owner was instead completed by the site manager. The details of this interview are contained in section 6.3 of this report.

## 6.2 Interview with Former Owner

Access through reasonable methods to former owner(s) of the subject property was not readily available during this Phase I ESA. Therefore, past owner entities, historical operators, or historical occupants of the subject property were not interviewed during this Phase I ESA.

## 6.3 Interview with Site Manager

An interview was conducted with Mr. David Karst. Mr. Karst was elected to represent the subject property. Questions about the subject property were answered to the best of their knowledge. Within the interview, Mr. Karst indicated that the site was utilized as an orchard from approximately 1910 to 1990. He indicated suspicion that there are metal contaminants on the property associated with the aforementioned orchard. David stated that there is a single-family residence (SFR) and migrant housing on the property which have been abandoned. Additionally, he stated that the SFR was constructed before 1978 and therefore it may contain lead and asbestos.

David Karst indicated that chemicals have been stored on the property.

A copy of the Environmental Assessment Questionnaire completed by Mr. David Karst and Gosling Czubak is included within Attachment 9.

## 6.4 Interview with Occupant(s)

Gosling Czubak did not conduct interviews with occupants during this assessment.

## 6.5 Interview with Local Government Officials

The following local municipal agencies were contacted to obtain additional information regarding the current and historical uses of the subject property and the potential presence of conditions indicating a *REC* in connection with the subject property.

- Manistee Township, Phone (231) 723-6507, formal request submitted via email
- District Health Department #10, Phone (231) 303-1805, formal request submitted via email
- Manistee County FOIA Coordinator, Phone (231) 398-3504, formal request submitted via email
- Manistee County Sheriff's Office, Phone (231) 723-8393, formal request submitted via email

The agencies identified above did not have immediate knowledge or records of *RECs* regarding the subject property.

## 6.6 Interview with Others

Gosling Czubak did not conduct interviews with adjoining or nearby property occupants during this assessment.

## 7.0 FINDINGS, OPINIONS AND CONCLUSIONS

Gosling Czubak Engineering Sciences, Inc. (Gosling Czubak) has conducted a Phase I Environmental Site Assessment (ESA) of the property located at 2853 Orchard Highway, in Manistee Township, Manistee County, Michigan. This Phase I ESA was performed in general accordance with the scope and limitations of American Society for Testing and Materials (ASTM) Standard Practice E 1527-21 (Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process). Any exceptions to or deletions from this practice are described in Section 9.0 of this report.

### 7.1 Recognized Environmental Conditions

The Phase I ESA has revealed evidence of recognized environmental conditions (RECs) associated with the subject property. The following constitute RECs in connection with the property:

- Based on historical aerial photographs, the subject property appears to have historically been utilized as an orchard. The aerial photos reveal that the orchard was present by at least 1938. The historical presence of an orchard on-site represents a potential environmental concern. Lead, arsenic, and chlorinated organic pesticides are known to have historically been used for pest control in orchards, and these contaminants can potentially remain in the soil. This historical orchard constitutes a REC in connection with the subject property.
- The salt located in the south side of the garage building is a REC in connection with the property. The chloride associated with salt has potential of contaminating the surrounding environment.
- The chemicals located in the red barn building east of the garage structure are recognized as a REC in connection with the subject property. There is evidence of staining on the floor of the

building. The potential of these chemicals contaminating the surrounding environment is a concern.

- The abandoned tires on the property grounds impose a concern due to the potential of chemicals leaching into the environment from the tires. The dumped tires on the property are considered a REC.
- Several barrels reside on the property, primarily east of the garage building. The potential of these barrels to previously had or currently harbor chemicals constitutes a REC in connection with the subject property. There is concern of contamination of the surrounding environment.
- According to anecdotal evidence and a Baseline Environmental Assessment (BEA) previously performed in 2006, gasoline and diesel fuel underground storage tanks (USTs) were previously located at the subject property. The area was a historical fueling area. The results presented in the 2006 BEA found volatile organic vapors indicative of a petroleum hydrocarbon release on the northern historic fueling area on the property. This previously recognized contamination constitutes a potential REC in connection with the subject property.
- Soil samples were taken as a part of the Phase II ESA previously conducted, targeting the area nearby the historical orchard. These samples found elevated concentrations of arsenic, exceeding drinking water protection and direct contact cleanup criteria. Additionally, arsenic concentrations detected at this time exceeded background concentrations that would be expected for the area. This known contamination constitutes a REC in connection with the subject property.
- In the previously performed BEA, the former presence of a gasoline UST south of a small shed east of the main residence was found to be a REC. During the 2006 investigation, it was mentioned that as a part of the Due Care Plan, soils will be investigated in this area. A Due Care Plan following up the 2006 BEA was not retrieved by Gosling Czubak for review. The presence of a former UST in this area is considered a REC.

## 7.2 Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of known *CRECs* associated with the subject property.

## 7.3 Historical Recognized Environmental Conditions

This assessment has revealed no evidence of known *HRECs* associated with the subject property.

## 8.0 DEVIATIONS

Gosling Czubak did not deviate from ASTM Practice E 1527 when completing this assessment.

### 8.1 Data Gaps

No significant data gaps associated with information related to the development of the subject property were noted. Information related to the use of the subject property prior to 1910 was not reviewed as part of this ESA.

## 9.0 ADDITIONAL INVESTIGATION

Gosling Czubak recommends the completion of a Phase II Environmental Site Assessment to evaluate the site for the presence of hazardous materials.

## 10.0 ADDITIONAL SERVICES

No additional services between Gosling Czubak and our client, Little River Band of Ottawa Indians, have been undertaken in conjunction with the completion of this Phase I ESA.

## 11.0 REFERENCES

The following published sources were used in preparing this Phase I ESA report:

- Property Legal Description/Current Parcel Information – published by Manistee County
- The U.S. Geological Survey (USGS) 1954 “Manitowoc, Wisconsin; Michigan”, 1956 15-minute quadrangle map “Onekama”, 1958 “Manitowoc, Wisconsin; Michigan”, 1976 7.5-minute quadrangle map “Onekama”, 1982 7.5-minute quadrangle map “Onekama”, 1983 30 X 60 minute quadrangle map “Manistee”, 2012 7.5-minute quadrangle map “Onekama”, 2014 7.5-minute quadrangle map “Onekama”, 2017 7.5-minute quadrangle map “Onekama”, 2019 7.5-minute quadrangle map “Onekama”, and 2023 7.5-minute quadrangle map “Onekama” – published by USGS topoView
- Environmental Database Report, Government Records Search, Instant Online Report – published by EDR;
- Historical Aerial Photographs – provided by EDR.
- Manistee County Parcel Search and Mapping.

- Michigan's EGLE GeoWebFace
- Michigan Oil, Gas, and Minerals Division Data Explorer

## 12.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

We declare that, to the best of our professional knowledge and belief, we meet the definition of, or is under the direct supervision of, an environmental professional as defined in §312.10 of 40 CFR Part 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 “all appropriate inquiries” in the conformance with the standards and practices set forth in the 40 CFR Part 312.

Prepared by:

Reviewed by:

Fern Sexton  
Project Scientist

Adam E. Segerlind, PE.  
Project Manager/Senior Environmental Engineer

## 13.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Ms. Fern Sexton received her Bachelor of Science Degree in Environmental Science in 2023 from the University of Michigan in Ann Arbor, Michigan. Ms. Sexton has performed Phase I and Phase II Environmental Site Assessments, wetland delineations, and other environmental due diligence tasks. Fern has working knowledge of current environmental regulations as well as the necessary skills to complete field reconnaissance, testing, monitoring, site recording, and mapping. Ms. Sexton has completed HAZWOPER (40-Hour) training.



Mr. Adam Segerlind is a professional engineer with over 20 years of experience in environmental consulting. He is a registered professional engineer in the State of Michigan. Mr. Segerlind has performed Environmental Site Assessments for municipal, commercial, industrial, and private clients throughout Michigan. In addition to performing environmental site assessments, Mr. Segerlind prepares

hydrogeological work plans, performs hydrogeological and remedial investigations, evaluates remedial alternatives, and prepares and implements corrective action plans for sites of environmental contamination.

## Attachment 1

### Site Location Map

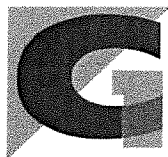


Aerial Date	2020	 NORTH		
Site	2853 Orchard Hwy			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Aerial Source	USDA/NAIP			

## Attachment 2

### User Questionnaire





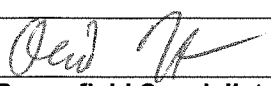
## USER QUESTIONNAIRE

<b>Site Name:</b>	Bull Corner	
<b>Site Address:</b>	Parcel 51- 07-127-005-00 Manistee Township, Michigan	
<b>Site City/State:</b>		
<b>Client:</b>	Little River Band of Ottawa Indians	

*This questionnaire should be completed by the User of the Environmental Site Assessment Report in order to qualify for one of the Landowner Liability Protections offered by the Small Business Liability Relief and Brownfields Revitalization Act (as amended). The User should provide the following information to the environmental professional. Failure to conduct these inquiries could result in a determination that "all appropriate inquiries" is not complete.*

QUESTION	USER Yes/No/Unknown
1. Are you aware of any environmental cleanup liens against the <i>property</i> that are filed or recorded under federal, tribal, state or local law?	no
2. Are you aware of any activity and use limitations (AULs), such as <i>engineering controls</i> , land use restrictions or <i>institutional controls</i> that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state or local law?	no
3. As a <i>user</i> of this <i>ESA</i> do you have any specialized knowledge or experience related to the <i>property</i> or nearby properties? For example, are you involved in the same line of business as the current or former <i>occupants</i> of the <i>property</i> or an adjoining <i>property</i> so that you would have specialized knowledge of the chemicals and processes used by this type of business?	no
4. Does the purchase price being paid for this <i>property</i> reasonably reflect the fair market value of the <i>property</i> ? If you conclude that there is a difference, have you considered whether the lower price is because contamination is known or believed to be present at the <i>property</i> ?	Na-this is not a purchase.
5a. Do you know the past uses of the <i>property</i> ?	Orchard
5b. Do you know the specific chemicals that are present or once were present at the <i>property</i> ?	Unsure
5c. Do you know of spills or other chemical releases that have taken place at the <i>property</i> ?	Unsure
5d. Do you know of any environmental cleanups that have taken place at the <i>property</i> ?	No
6a. As the user of this <i>ESA</i> , based on your knowledge and experience related to the <i>property</i> , are there any <i>obvious</i> indicators that point to the presence or likely presence of contamination at the <i>property</i> ?	Yes, metals associated with the orchard and SFR

**This Questionnaire Completed By:**

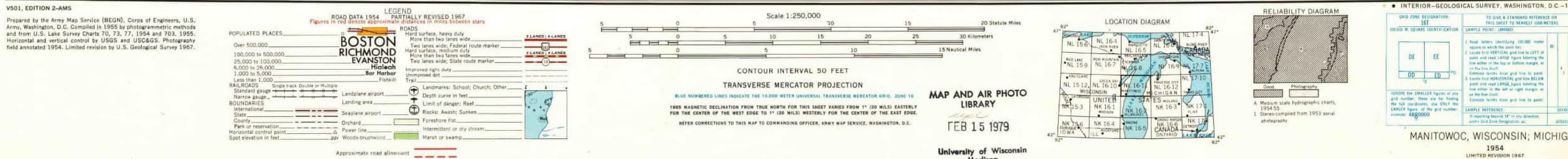
<b>Name:</b>	David Karst
<b>Signature:</b>	
<b>Title:</b>	Brownfield Specialist
<b>Company:</b>	Little River Band of Ottawa Indians
<b>Date:</b>	11/15/2024

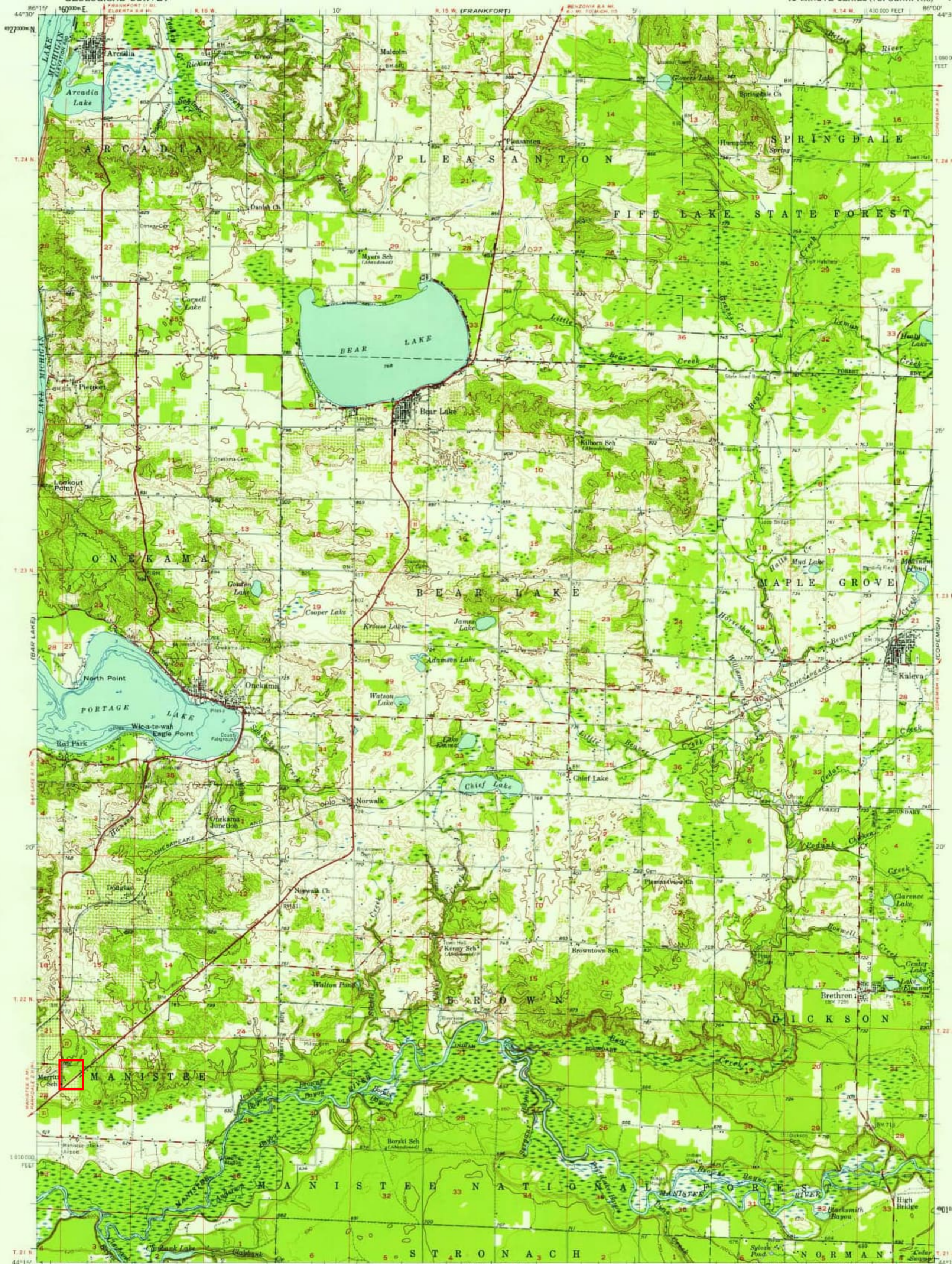
## Attachment 3

### Topographic Maps



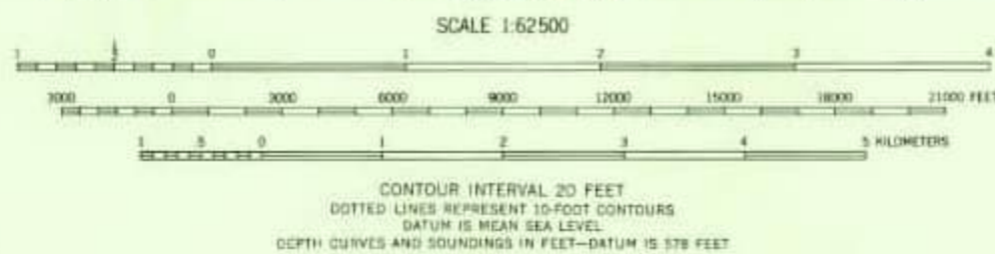
**Gosling Czubak**  
engineering sciences, inc.





Mapped, edited, and published by the Geological Survey  
Control by USGS and USC&GS  
Topography from aerial photographs by Kelsh plotter  
Aerial photographs taken 1954. Field check 1956  
Hydrography compiled from U. S. Lake Survey charts 77 and 777 (1954)  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Michigan coordinate system, central zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 16, shown in blue

APPROXIMATE MEAN  
DECLINATION, 1958



THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, WASHINGTON 25, D. C.  
A FOLDER DESCRIBING TOPOGRAPHIC MAPS AND SYMBOLS IS AVAILABLE ON REQUEST

USGS  
Historical File  
Topographic Division  
ROAD CLASSIFICATION  
Heavy-duty  
Medium-duty  
Light-duty  
Unimproved dirt  
U. S. Route  
State Route

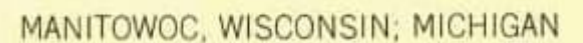


ONEKAMA, MICH.  
N4415-W8600/15  
1956

U.S.G.S.  
FILE COPY  
TOPOGRAPHIC

APR 11 1958

2435

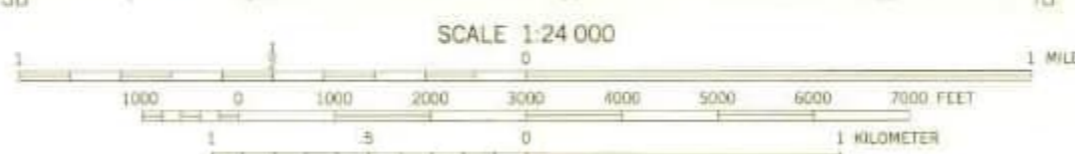


SEPT 19, 1958  
1895

U.S.G.  
FILE C  
TOPOGRAPHIC



Produced by the Geological Survey  
Orthophoto prepared from 1:80,000-scale  
aerial photograph taken May 8, 1976  
Projection and 10,000-foot grid ticks: Michigan  
coordinate system, central zone (Lambert conformal conic)  
1000-meter Universal Transverse Mercator grid,  
zone 16, 1927 North American datum  
Photomage rectified by optical scanning  
which may produce double or mismatched images;  
use the mean of image positions for map point



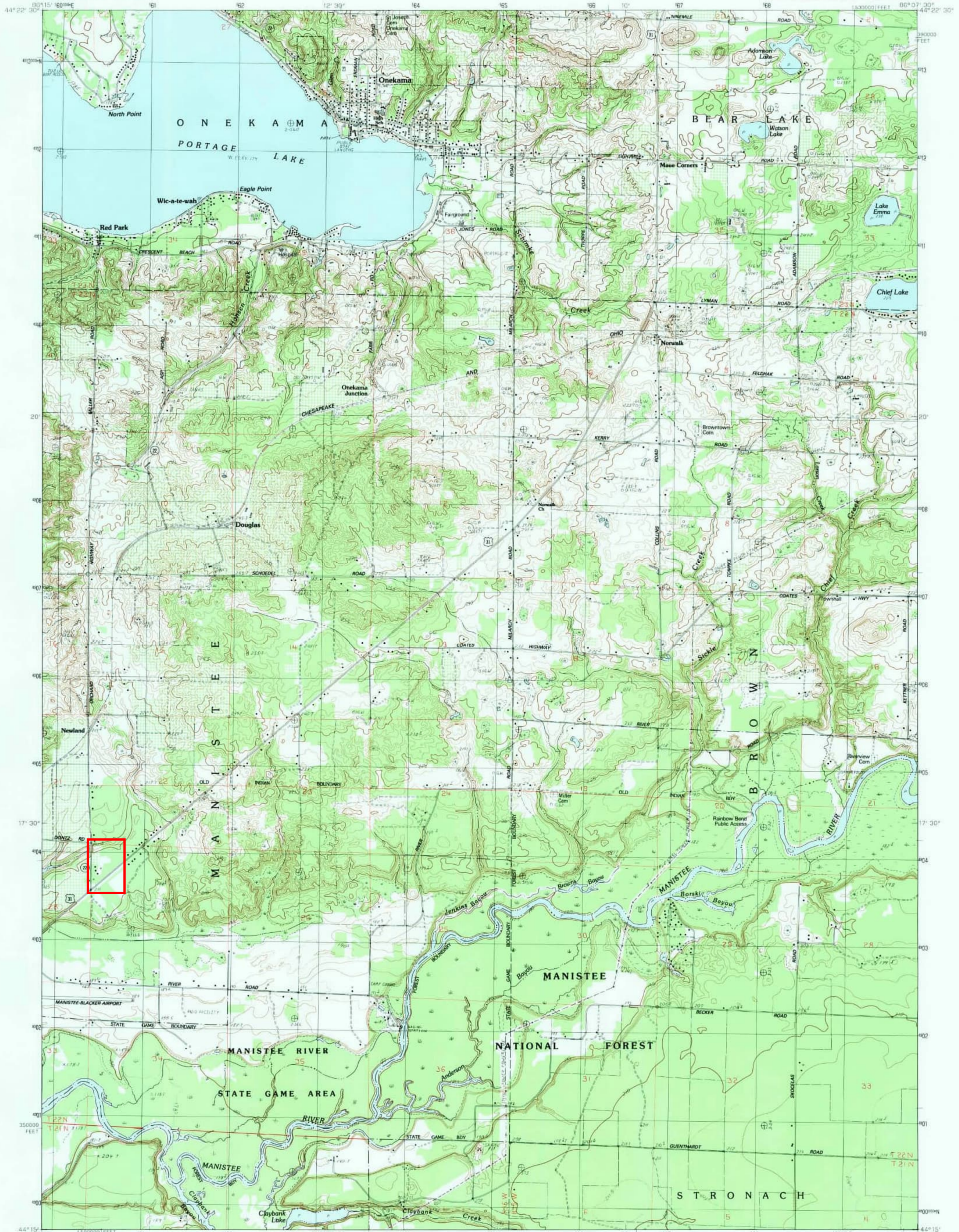
THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U. S. GEOLOGICAL SURVEY, ROLLA, MISSOURI 65401

ONEKAMA SW, MICH.  
N4415-W8607.5/7.5  
1976  
ADVANCE PRINT

FEB 5 1979  
417

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

ONEKAMA QUADRANGLE  
MICHIGAN-MANISTEE CO.  
7.5 MINUTE SERIES (TOPOGRAPHIC)



PRODUCED BY THE UNITED STATES GEOLOGICAL SURVEY  
CONTROL BY USGS AND NOS/NOAA  
COMPILED FROM AERIAL PHOTOGRAPHS TAKEN 1977  
FIELD CHECKED 1979. MAP EDITED 1982  
PROJECTION LAMBERT CONFORMAL CONIC  
GRID: 1000-METER UNIVERSAL TRANSVERSE MERCATOR ZONE 16  
18,000-FOOT STATE GRID TICS MICHIGAN, CENTRAL ZONE  
UTM GRID DECLINATION 1927 NORTH AMERICAN DATUM  
1982 MAGNETIC NORTH DECLINATION 3'00" WEST  
VERTICAL DATUM NATIONAL GEODETIC VERTICAL DATUM OF 1989  
HORIZONTAL DATUM 1927 NORTH AMERICAN DATUM  
To place on the predicted North American Datum of 1983  
move the projection lines as shown by dashed corner ticks  
(3 meters north and 3 meters east)  
There may be private inholdings within the boundaries of any  
Federal and State reservations shown on this map

**PROVISIONAL MAP**  
Produced from original  
manuscript drawings. Infor-  
mation shown as of date of  
field check.



CONTOUR INTERVAL 3 METERS  
SUPPLEMENTARY CONTOUR INTERVAL 1.5 METERS  
CONTROL AND FIELD ESTABLISHED ELEVATIONS SHOWN TO THE NEAREST 0.5 METER  
OTHER ELEVATIONS SHOWN TO THE NEAREST 0.3 METER  
To convert meters to feet multiply by 3.2808  
THIS MAP COMPLETES WITH NATIONAL MAP ACCURACY STANDARDS  
FOR SALE BY U.S. GEOLOGICAL SURVEY, RESTON, VIRGINIA 22092  
AND THE GEOLOGICAL SURVEY DIVISION  
MICHIGAN DEPARTMENT OF NATURAL RESOURCES, LANSING, MICHIGAN 4 1909



1	2	3	4	5	6	7	8
1	2	3	4	5	6	7	8

ADJOINING 7.5' QUADRANGLE NAMES  
CONTOURS AND ELEVATIONS  
IN METERS

**ROAD LEGEND**  
Improved Road .....  
Unimproved Road .....  
Trail .....  
Interstate Route ..... U.S. Route ..... State Route .....

ONEKAMA, MICHIGAN  
PROVISIONAL EDITION 1982

44086-C2-TM-025

MAR 27 1984  
RETURN TO:  
USGS AND HISTORICAL MAP ARCHIVES



# Manistee MICHIGAN-WISCONSIN

1:100 000-scale metric  
topographic map



30 X 60 MINUTE QUADRANGLE  
SHOWING

- Contours and elevations in meters
- Highways, roads and other manmade structures
- Water features
- Woodland areas
- Geographic names



Produced by the United States Geological Survey  
Compiled from USGS 1:24 000 and 1:62 500-scale topographic maps dated 1957-1983. Planimetry revised from aerial photographs taken 1981 and other source data. Revised information not field checked. Map edited 1983.  
Projection and 10 000-meter grid, zone 16.  
Universal Transverse Mercator  
25 000-foot grid ticks based on Michigan coordinate system, central zone  
1927 North American Datum  
To place on the predicted North American Datum 1983 move the projection lines 3 meters north and 3 meters east  
There may be private inholdings within the boundaries of the National or State reservations shown on this map

CONTOUR INTERVAL 10 METERS  
NATIONAL GEODETIC VERTICAL DATUM OF 1929  
ELEVATIONS SHOWN TO THE NEAREST METER

THIS MAP COMPLIES WITH NATIONAL MAP ACCURACY STANDARDS

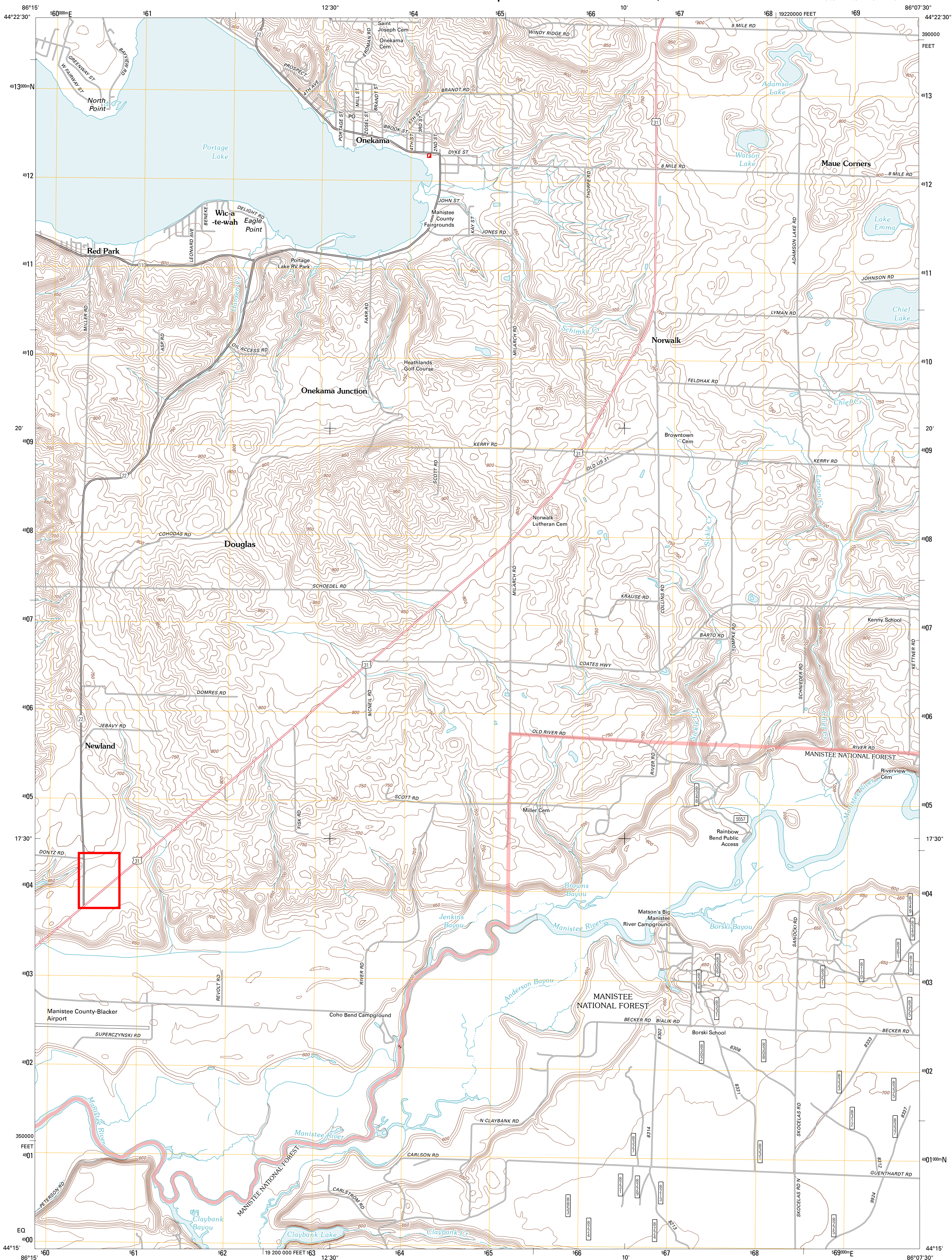
CONVERSION TABLE		DECLINATION DIAGRAM	ADJOINING MAPS	
Meters	Feet		1	2
1	3.2808		1	2
2	6.5617		3	4
3	9.8425		5	6
4	13.1234		7	8
5	16.4042		9	10
6	19.6850		11	12
7	22.9659		13	14
8	26.2467		15	16
9	29.5275		17	18
10	32.8084		19	20
To convert meters to feet multiply by 3.2808		UTM grid convergence (EN) and 100 magnetic declination (MN) at center of map. Diagram is approximate.	1 Transverse City	
To convert feet to meters multiply by 0.3048			2 Cadillac	
			3 Ludington	
			4 Big Rapids	

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## Topographic Map Symbols

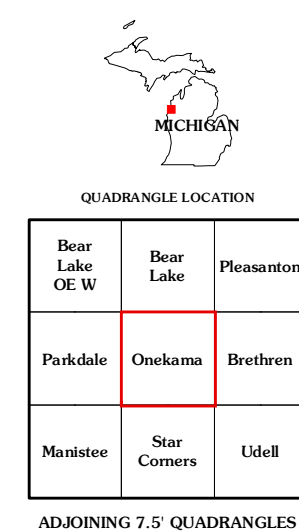
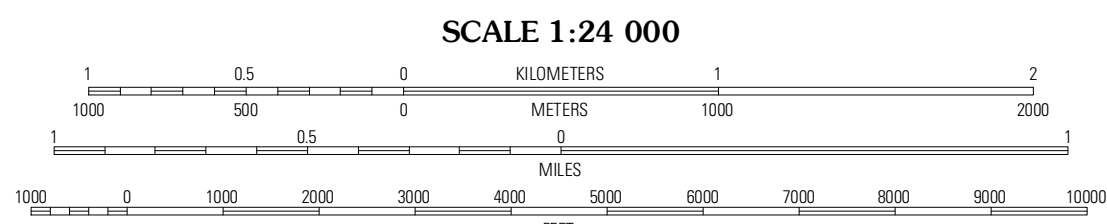
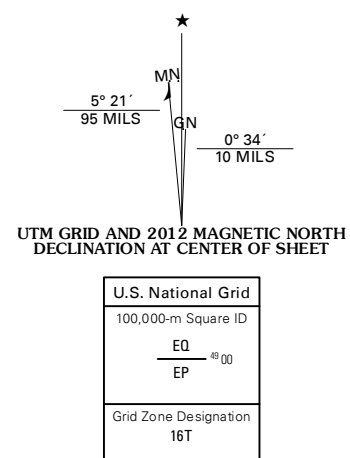
Primary highway, hard surface	
Secondary highway, hard surface	
Light duty road, principal street, hard or improved surface	
Other road or street; trail	
Route marker: Interstate, U.S., State	
Natural: standard gauge, narrow gauge	
Bridge, overpass, underpass	
Tunnel: road, railroad	
Built up area, locality, elevation	
Airport: landing field, landing strip	
National boundary	
State boundary	
County boundary	
National or State reservation boundary	
Land grant boundary	
U.S. public lands survey: range, township, section	
Range, township, section line: pre-tracked	
Power transmission line; pipeline	
Dam, dam with lock	
Cemetery: building	
Windmill; water well; spring	
Mine shaft; adit or cave; mine, quarry; gravel pit	
Campground; picnic area, U.S. location monument	
Ruins; cliff dwelling	
Disturbed surface: strip mine, leach, sand	
Contours: index, intermediate, supplementary	
Bathymetric contours: index, intermediate	
Stream, lake: perennial; intermittent	
Rapids, large and small; falls, large and small	
Area to be submerged; marsh, swamp	
Land subject to controlled inundation; woodland	
Shrub, mangrove	
Orchard; vineyard	

A pamphlet describing topographic maps is available on request  
RETURN TO:  
USGS AND HISTORICAL MAP ARCHIVES



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North American Datum of 1983 (NAD83)  
World Geodetic System of 1984 (WGS84) Projection and  
1 000-meter grid; Universal Transverse Mercator, Zone 16T  
10 000-foot ticks: Michigan Coordinate System of 1983  
(central zone)

Imagery.....NAIP, July 2010  
Roads.....©2006-2011 TomTom  
Roads within US Forest Service Lands.....FS Topo Data  
with limited Forest Service updates, 2009  
Names.....GNIS, 2011  
Hydrography.....National Hydrography Dataset, 2010  
Contours.....National Elevation Dataset, 2006  
Boundaries.....Census, IBWC, USGS, 1972 - 2010



ROAD CLASSIFICATION

Interstate Route  
US Route  
Ramp

State Route  
Local Road  
4WD

Interstate Route  
US Route  
FS Primary Route

State Route  
FS Passenger Route  
FS High Clearance Route

Check with local Forest Service unit  
for current travel conditions and restrictions.

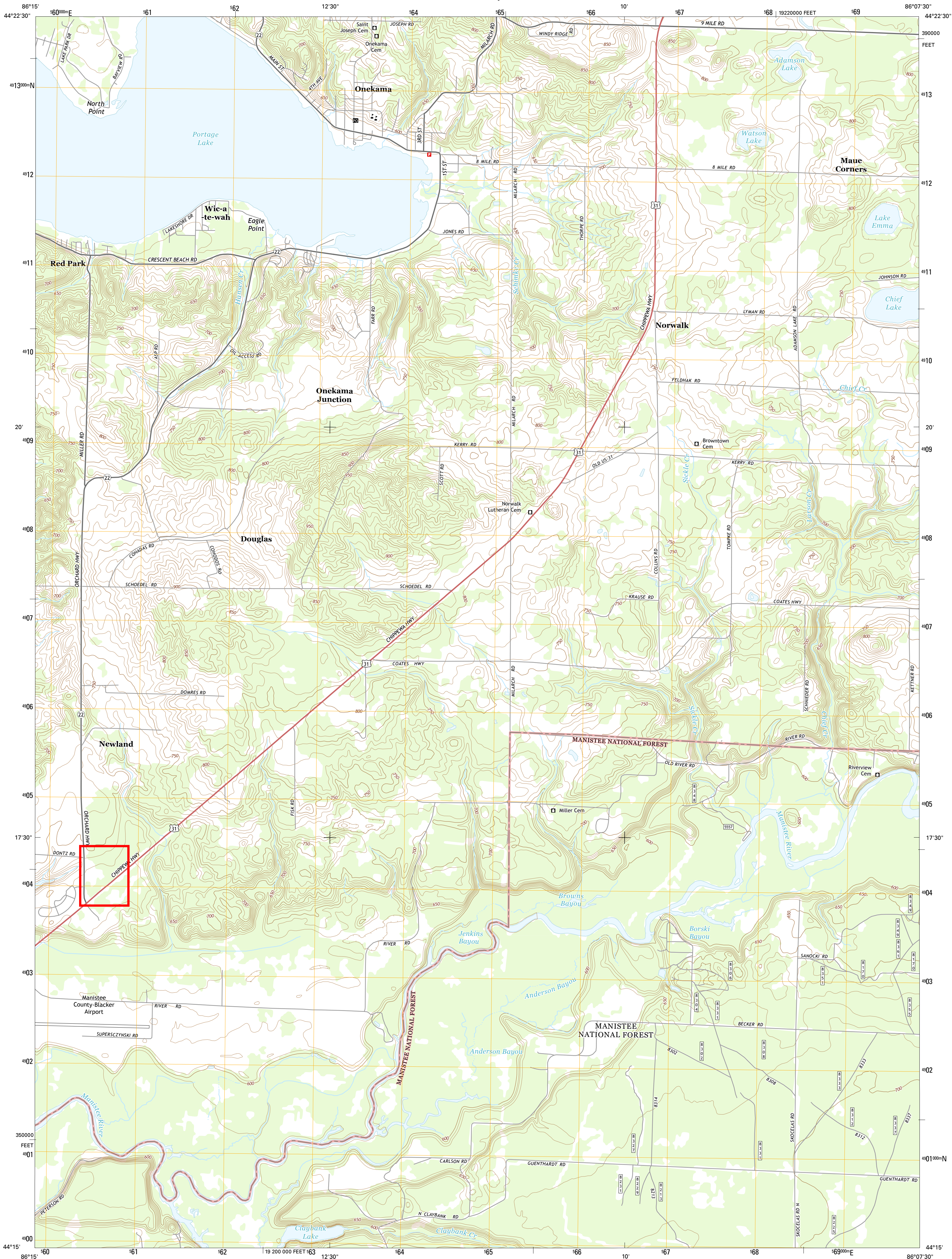
ONEKAMA, MI  
2012



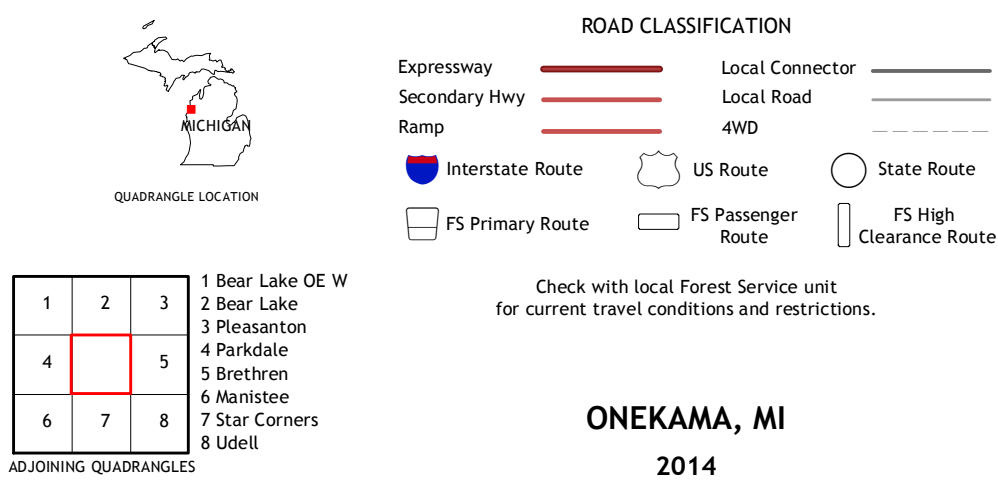
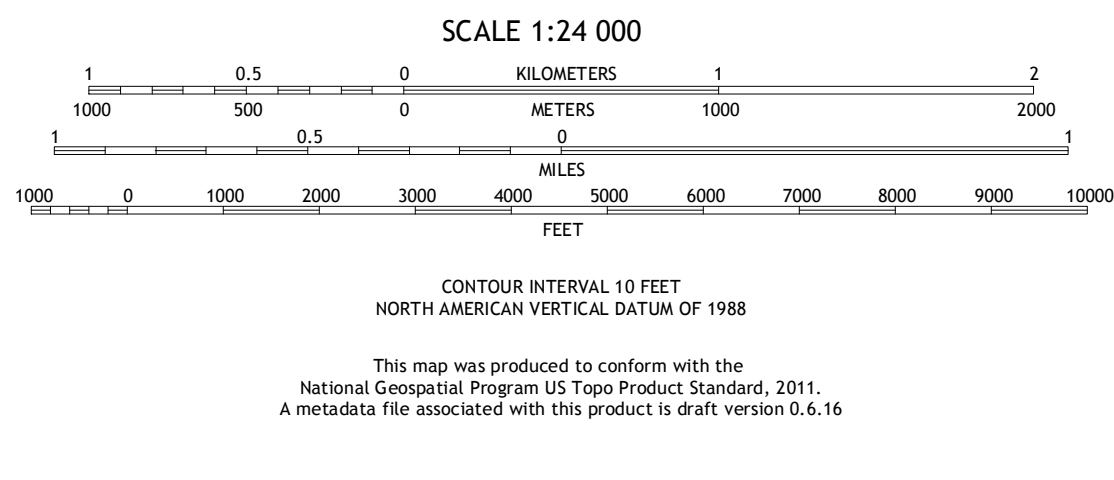
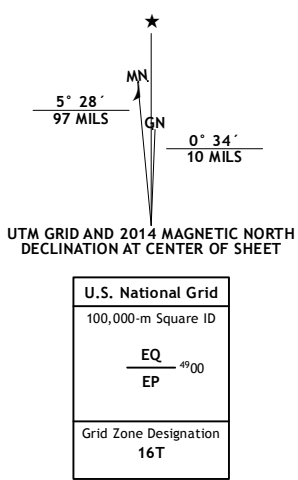
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U.S. GEOLOGICAL SURVEY



ONEKAMA QUADRANGLE  
MICHIGAN-MANISTEE CO.  
7.5-MINUTE SERIES



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World Geodetic System of 1984 (WGS84). Projection and  
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10 000-foot ticks: Michigan Coordinate System of 1983 (central zone)  
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Imagery.....NAIP, July 2012  
Roads.....HERE, ©2013  
Roads within US Forest Service Lands.....FSTopo Data  
with limited Forest Service updates, 2013  
Names.....GNS, 2013  
Hydrography.....National Hydrography Dataset, 2012  
Contours.....National Elevation Dataset, 2006  
Boundaries.....Multiple sources; see metadata file 1972 - 2013  
Public Land Survey System.....BLM, 2011



1	2	3
4	5	6
7	8	9

ADJOINING QUADRANGLES

Check with local Forest Service unit  
for current travel conditions and restrictions.

ONEKAMA, MI  
2014

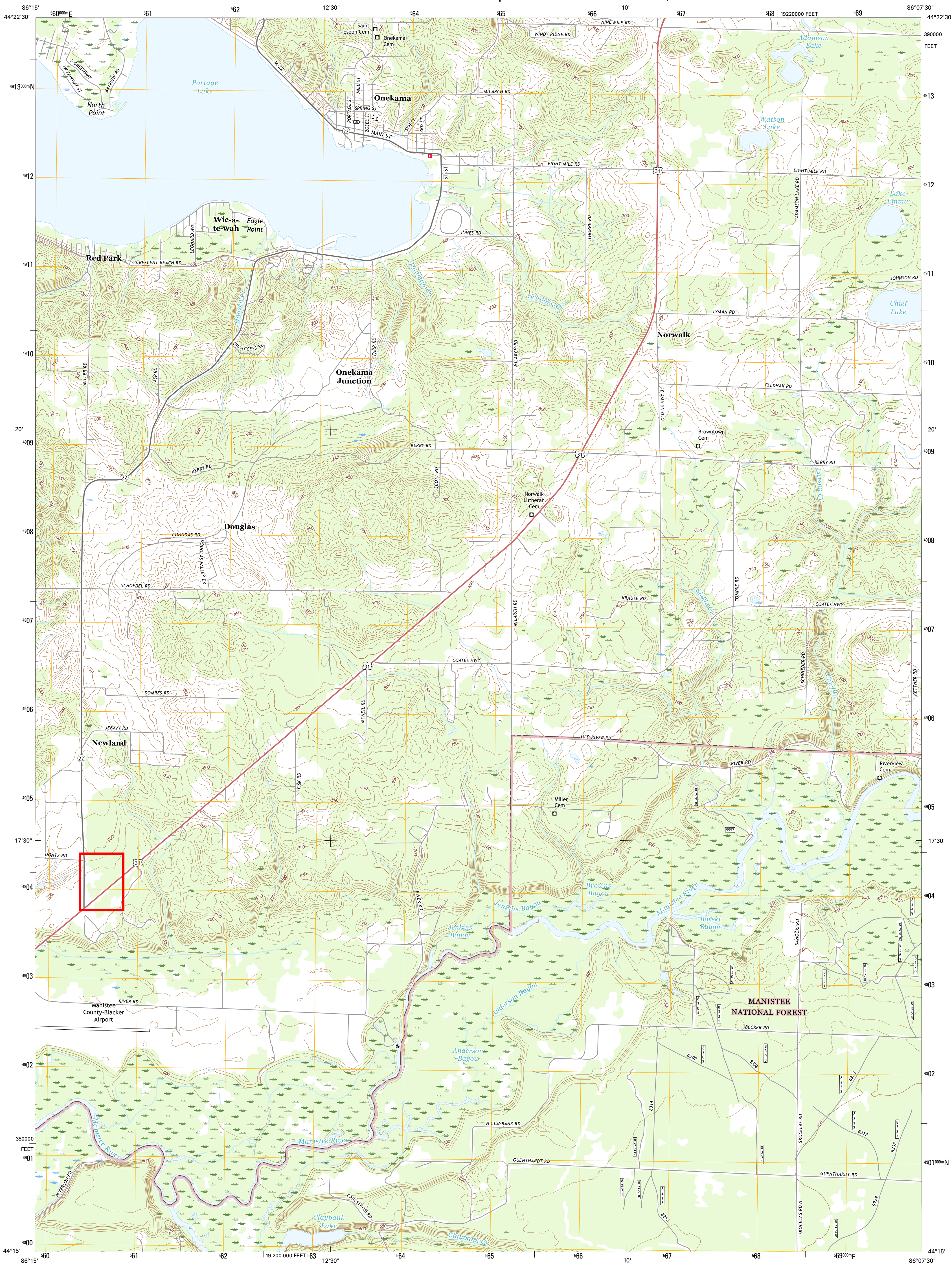




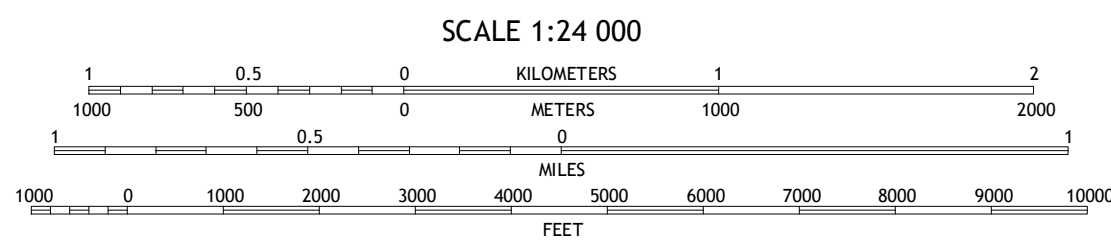
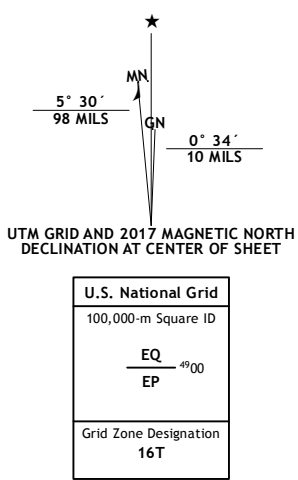
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ONEKAMA QUADRANGLE  
MICHIGAN-MANISTEE CO.  
7.5-MINUTE SERIES



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Imagery.....NAIP, November 2014  
Roads.....U.S. Census Bureau, 2015 - 2016  
Roads within US Forest Service Lands.....FS Topo Data  
with limited Forest Service updates, 2012 - 2016  
Names.....GNIS, 2016  
Hydrography.....National Hydrography Dataset, 2014  
Contours.....National Elevation Dataset, 2006  
Boundaries.....Multiple sources; see metadata file 1972 - 2016  
Public Land Survey System.....BLM, 2016  
Wetlands.....FWS National Wetlands Inventory 1977 - 2014



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.19



1	2	3
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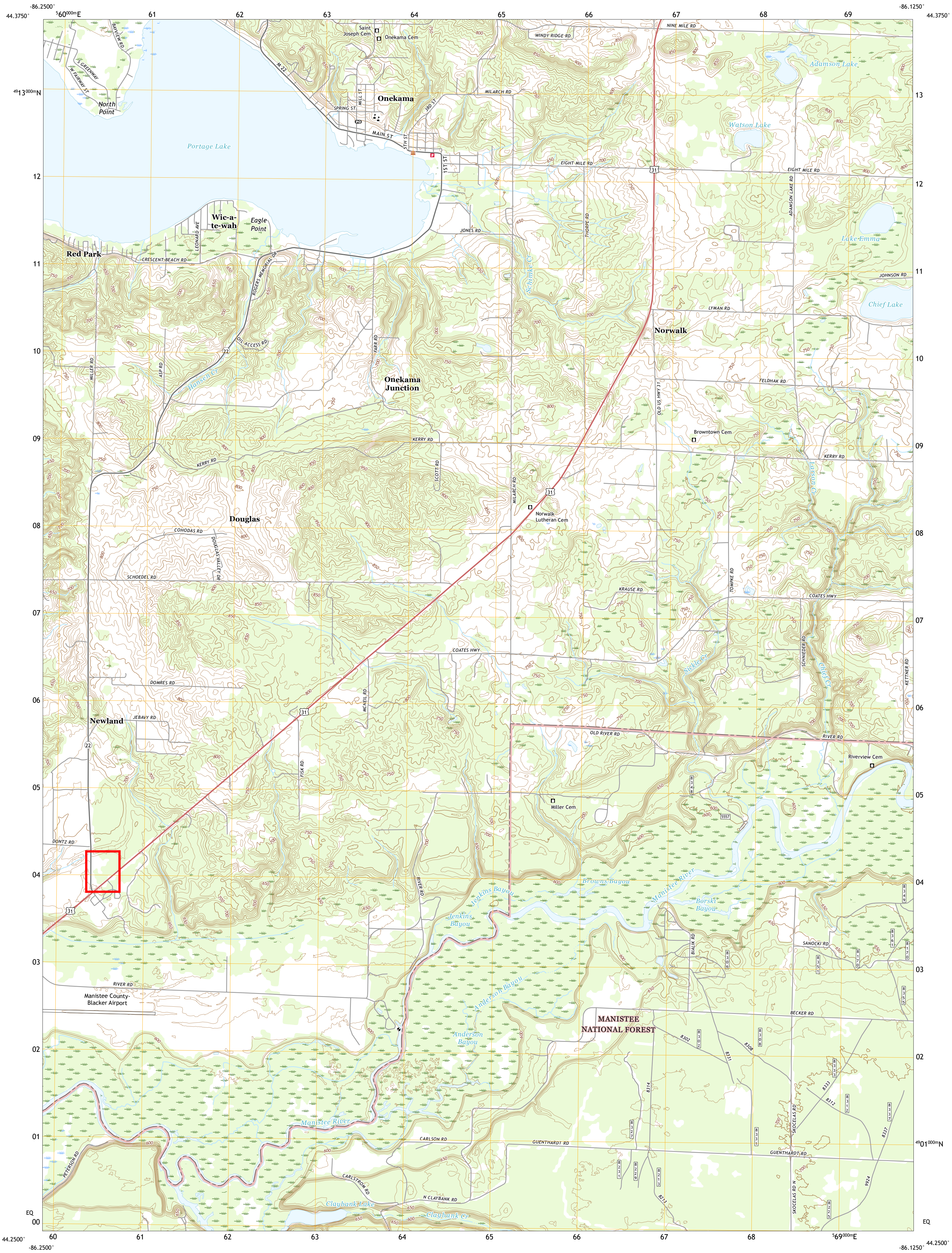
ADJOINING QUADRANGLES

ROAD CLASSIFICATION  
Expressway  
Secondary Hwy  
Ramp  
Interstate Route  
FS Primary Route  
Local Connector  
Local Road  
4WD  
US Route  
FS Passenger Route  
State Route  
FS High Clearance Route

Check with local Forest Service unit  
for current travel conditions and restrictions.

ONEKAMA, MI  
2017

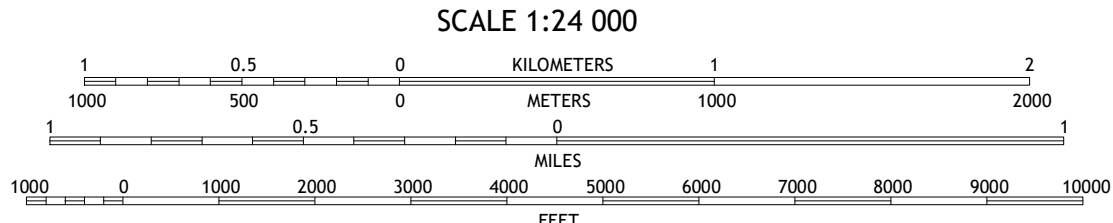
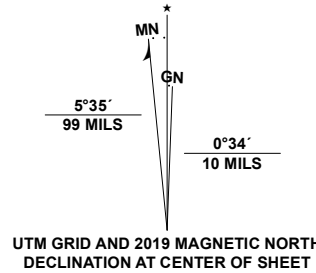




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Imagery.....N.A.P., July 2016 - October 2016  
Roads.....U.S. Census Bureau, 2016  
Roads within US Forest Service Lands.....FS Topo  
Data with Limited Forest Service updates, 2014 - 2016  
Names.....G.N.S., 1980 - 2019  
Hydrography.....National Hydrography Dataset, 2002  
Contours.....National Elevation Dataset, 2017  
Boundaries.....Multiple sources; see metadata file, 2017 - 2018  
Public Land Survey System.....BLM, 2018  
Wetlands.....FWS National Wetlands Inventory, 2005



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988  
This map was produced to conform with the  
National Geospatial Program US Topo Product Standard, 2011.  
A metadata file associated with this product is draft version 0.6.18



1	2	3
4	5	6
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1 Bear Lake OE W  
2 Bear Lake  
3 Pleasanton  
4 Parkdale  
5 Brethren  
6 Manistee  
7 Star Corners  
8 Udeli

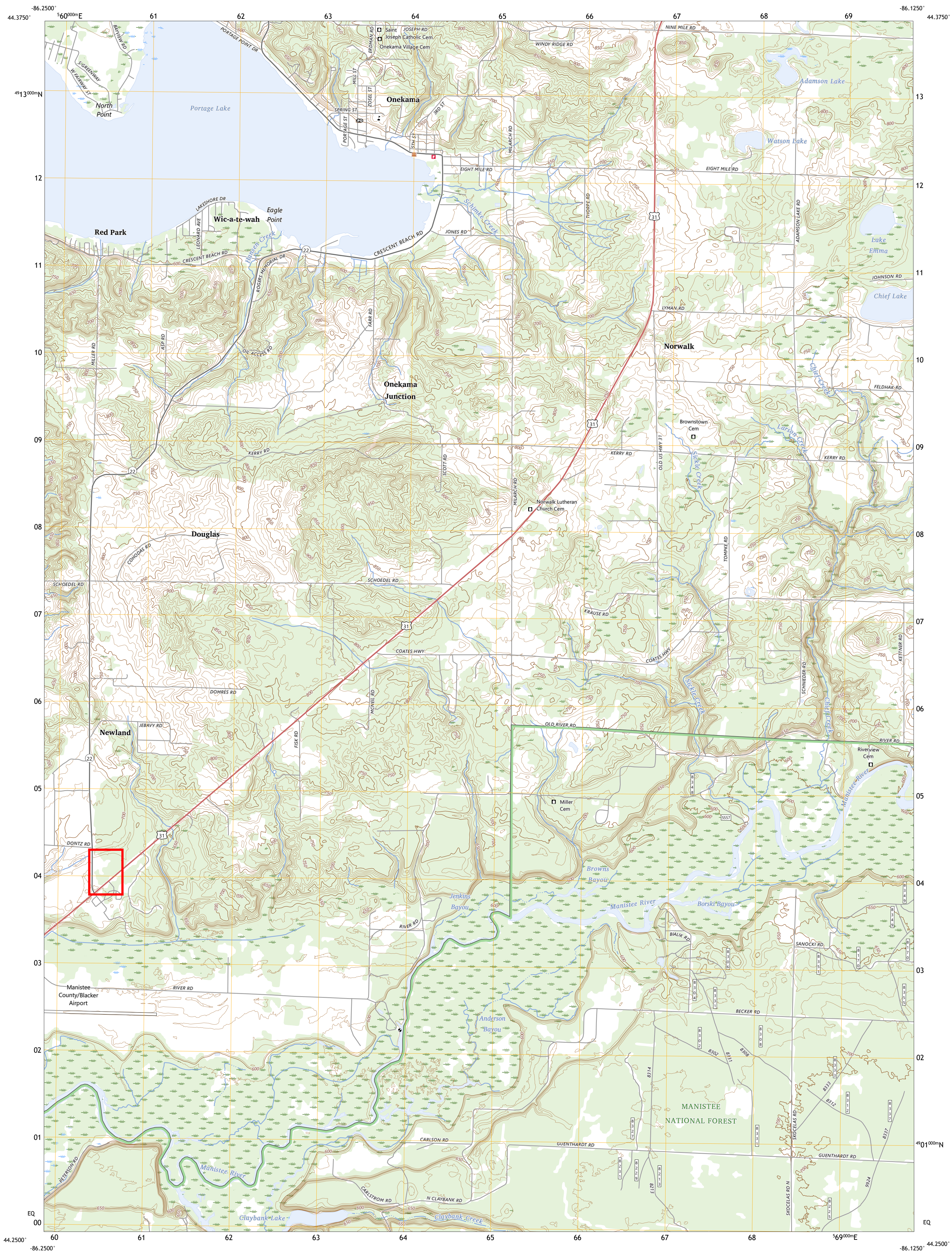
ROAD CLASSIFICATION

Expressway	Local Connector
Secondary Hwy	Local Road
Ramp	4WD
Interstate Route	US Route
FS Primary Route	FS Passenger Route
	FS High Clearance Route

Check with local Forest Service unit  
for current travel conditions and restrictions.

ONEKAMA, MI  
2019

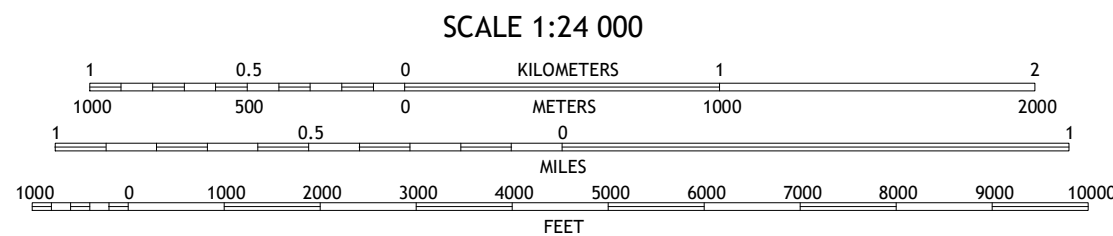
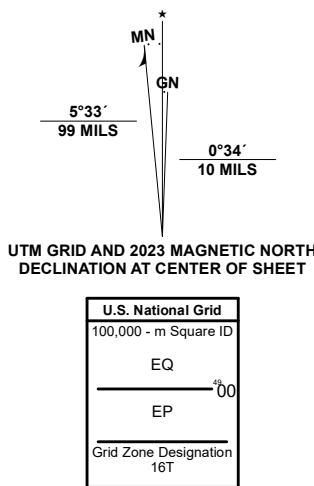




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 Washington, D.C. 20508-6099 (H-5502)

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Imagery.....	NAIP, July 2020	July 2020
Roads.....	U.S. Census Bureau,	2016
Roads within US Forest Service Lands.....	FSTopo,	2016
	with limited Forest Service updates,	2016
Names.....	GNIS, 1980	2023
Hydrography.....	National Hydrography Dataset, 2002	2023
Contours.....	National Elevation Dataset,	2017
Boundaries.....	Multiple sources; see metadata file	2017
Public Land Survey System.....	BLM,	2018
Wetlands.....	FWS National Wetlands Inventory	Not Available



CONTOUR INTERVAL 10 FEET  
NORTH AMERICAN VERTICAL DATUM OF 1988

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


ADJOINING QUADRANGLES

- 1 Bear Lake OE W
- 2 Bear Lake
- 3 Pleasanton
- 4 Parkdale
- 5 Brethren
- 6 Manistee
- 7 Star Corners
- 8 Udell

## ROAD CLASSIFICATION

Expressway		Local Connector	
Secondary Hwy		Local Road	
Ramp		4WD	

 Interstate Route	 US Route	 State Route
 FS Primary Route	 FS Passenger Route	 FS High Clearance Route

Check with local Forest Service unit  
for current travel conditions and restrictions.


ONEKAMA, MI  
2023




## Attachment 4

### Site Photographs




Date	12/18/2024	Photo #  1		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	West of access drive through subject property, facing south.			




Date	12/18/2024	Photo #  2		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Photo taken from the M-22 side of the access drive, facing south. Potential historical access route.			




Date	12/18/2024	Photo #  3		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Photo taken from tree line on north side of property, facing open field. Photograph taken facing southwest.		GCES Project No:	240218



Date	12/18/2024	Photo #  4		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Open field on north side of property, with buildings visible in background. Photograph taken facing south.			




Date	12/18/2024	Photo #  5		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Open field on property, with remnant fruit trees from historical orchard. Photograph taken facing east.			




Date	12/18/2024	Photo #  <div>6</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Northern property boundary and fence line, facing north.		GCES Project No:	240218



Date	12/18/2024	Photo #  7		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Northern adjoining property, residential parcel. Photograph taken facing northwest.			




Date	12/18/2024	Photo #  8		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Eastern property boundary, with M-22 located at top of ditch. Photograph taken facing west.			




Date	12/18/2024	Photo #  9		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Trail through forested section on eastern side of property. Photograph taken facing east.			




Date	12/18/2024	Photo #  10		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Northern section of property. Photograph taken facing north.			




Date	12/18/2024	Photo #  11		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Metal debris and small dumping located on northern section of property. Photograph taken facing south.			




Date	12/18/2024	Photo # <b>12</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Discarded water heater on northwest portion of property.			




Date	12/18/2024	Photo #  13		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Abandoned piping in ground, located in north-central area of property.			




Date	12/18/2024	Photo #  <b>14</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:      240218	
Subject	One of several dumped tires on the subject site. Garage building in background.			



Date	12/18/2024	Photo #  15		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Gas pipeline marker on west side of property, bordering M-22. Photograph taken facing northeast. Cable TV house and AT&T cable markers and utility box in background.			




Date	12/18/2024	Photo # <b>16</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Ameritech cable box on west side of property, next to M-22. Photograph taken facing east.			




Date	12/18/2024	Photo #  <b>17</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:      240218	
Subject	Many PVC pipes located east of garage style building.			




Date	12/18/2024	Photo #  <div>18</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	M-22 on west side of property, facing south.			



Date	12/18/2024	Photo # <b>19</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	M-22 on west side of property, photographed from access drive. Photograph taken facing north.			




Date	12/18/2024	Photo #  20		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Western adjoining property and M-22, west of subject parcel. Photograph taken from access drive, facing west.			



Date	12/18/2024	Photo #  21		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Water well pit on subject property, located east of multi-story residential building.			




Date	12/18/2024	Photo #  22		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Water well pump, located near in-ground well.			




Date	12/18/2024	Photo #  23		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Exterior photo of west side of apartment-style building on property. Four different apartment-style spaces are in this building. Mentioned to have previously been utilized for migrant housing. Each apartment contains a kitchen, bathroom, and bedroom(s).		GCES Project No:	240218




Date	12/18/2024	Photo #  <div>24</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Southeast corner of multi-residential building. Photograph taken facing west.		GCES Project No:	240218



Date	12/18/2024	Photo #  25		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	North side of multi-residential building. Photograph taken facing southeast.			




Date	12/18/2024	Photo #  <div>26</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	West side of multi-residential building. Photograph taken facing southeast.			




Date	12/18/2024	Photo #  27		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	West side of building.			




Date	12/18/2024	Photo #  <div>28</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	South side of multi-residential building, southwest corner. Photograph taken facing northeast.		GCES Project No:	240218




Date	12/18/2024	Photo #  29		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Piping coming up from ground next to the south side of the multi-residential building.			




Date	12/18/2024	Photo #  30		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Interior photograph of the kitchen space in first apartment-style space on south side of building. Photograph taken facing west.		GCES Project No:	240218




12 18 2024

Date	12/18/2024	Photo #  31		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Interior photo of the bedroom space in the first apartment-style space on south side of building. Photograph taken facing west.		GCES Project No:	240218




Date	12/18/2024	Photo #  32		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Bathroom inside of apartment-style space, with stained shower drain visible.		GCES Project No:	240218




Date	12/18/2024	Photo #  33		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Interior of second apartment-style space in multi-residential building, moving south to north. Photograph taken facing west.		GCES Project No:	240218




Date	12/18/2024	Photo #  34		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Kitchen space of second apartment-style space, facing south. Household cleaning products visible.		GCES Project No:	240218




Date	12/18/2024	Photo #  35		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	First bedroom space of second apartment-style space, facing west.		GCES Project No:	240218




Date	12/18/2024	Photo #  36		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Second bedroom within second apartment-style space, south of first bedroom. Photograph taken facing west.			




Date	12/18/2024	Photo #  37		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Bathroom in second apartment-style space, photograph taken facing south.			




12 18 2024

Date	12/18/2024	Photo #  38		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Entrance door of third apartment-style space in multi-residential structure, traveling south to north.			




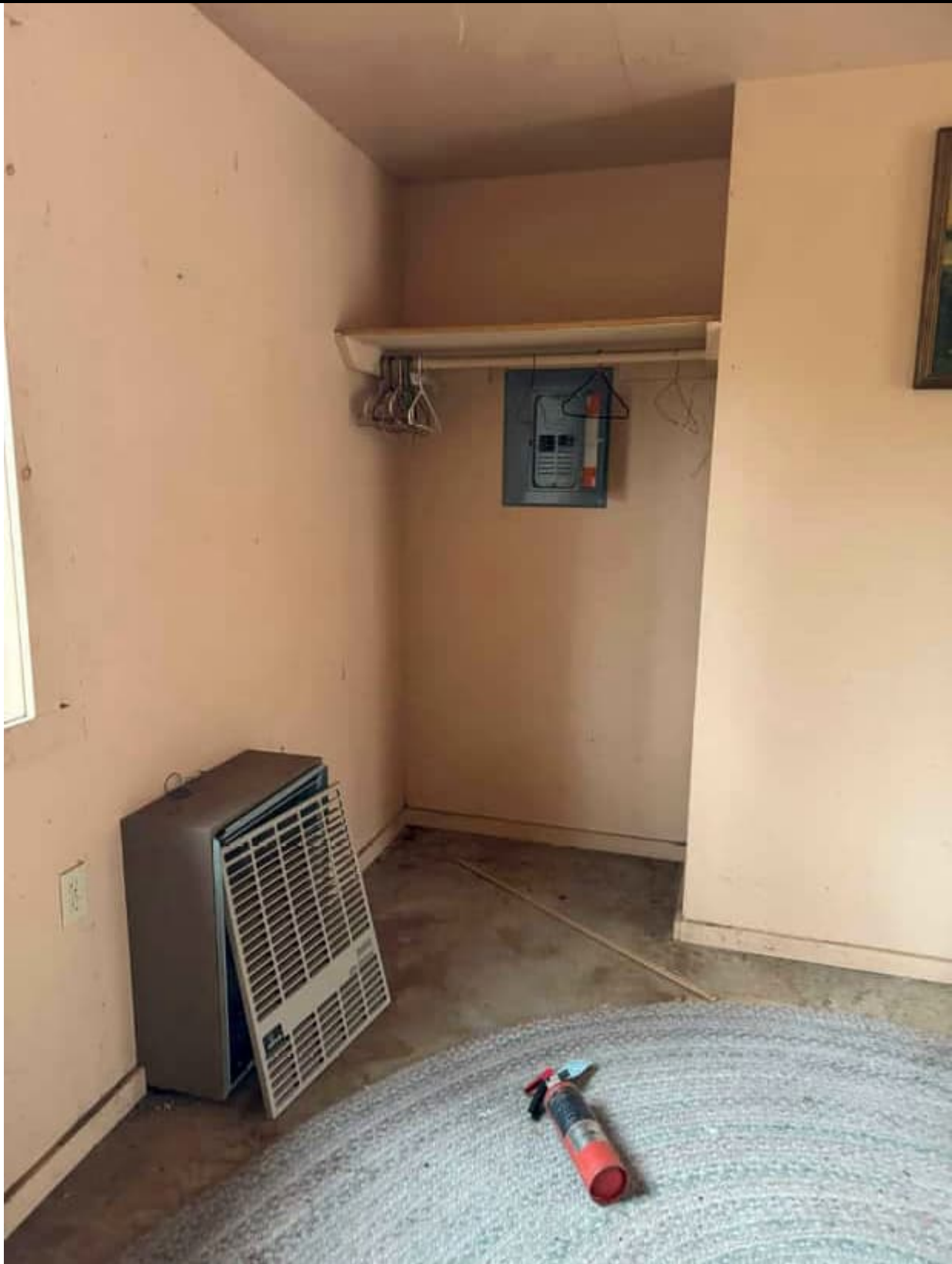
Date	12/18/2024	Photo #  39		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Living area, with insulation removed from wall between apartment-style space and neighboring connected garage area to the south.		GCES Project No:	240218




Date	12/18/2024	Photo #  40		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of garage from hole in wall connected to neighboring room.			




Date	12/18/2024	Photo # <b>41</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of garage from hole in wall connected to neighboring room.			




Date	12/18/2024	Photo #  42		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Bedroom space inside of third apartment-style space. Photograph taken facing northwest.		GCES Project No:	240218




Date	12/18/2024	Photo #  <b>43</b>	 <b>Gosling Czubak</b> engineering sciences, inc.	
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Kitchen space, facing northeast.			




Date	12/18/2024	Photo #  <b>44</b>		GCES Project No:	240218
Site	Bull Corner				
Client	Little River Band of Ottawa Indians				
Subject	Bedroom space, facing northwest.				




Date	12/18/2024	Photo #  45		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Bathroom space, facing north.			




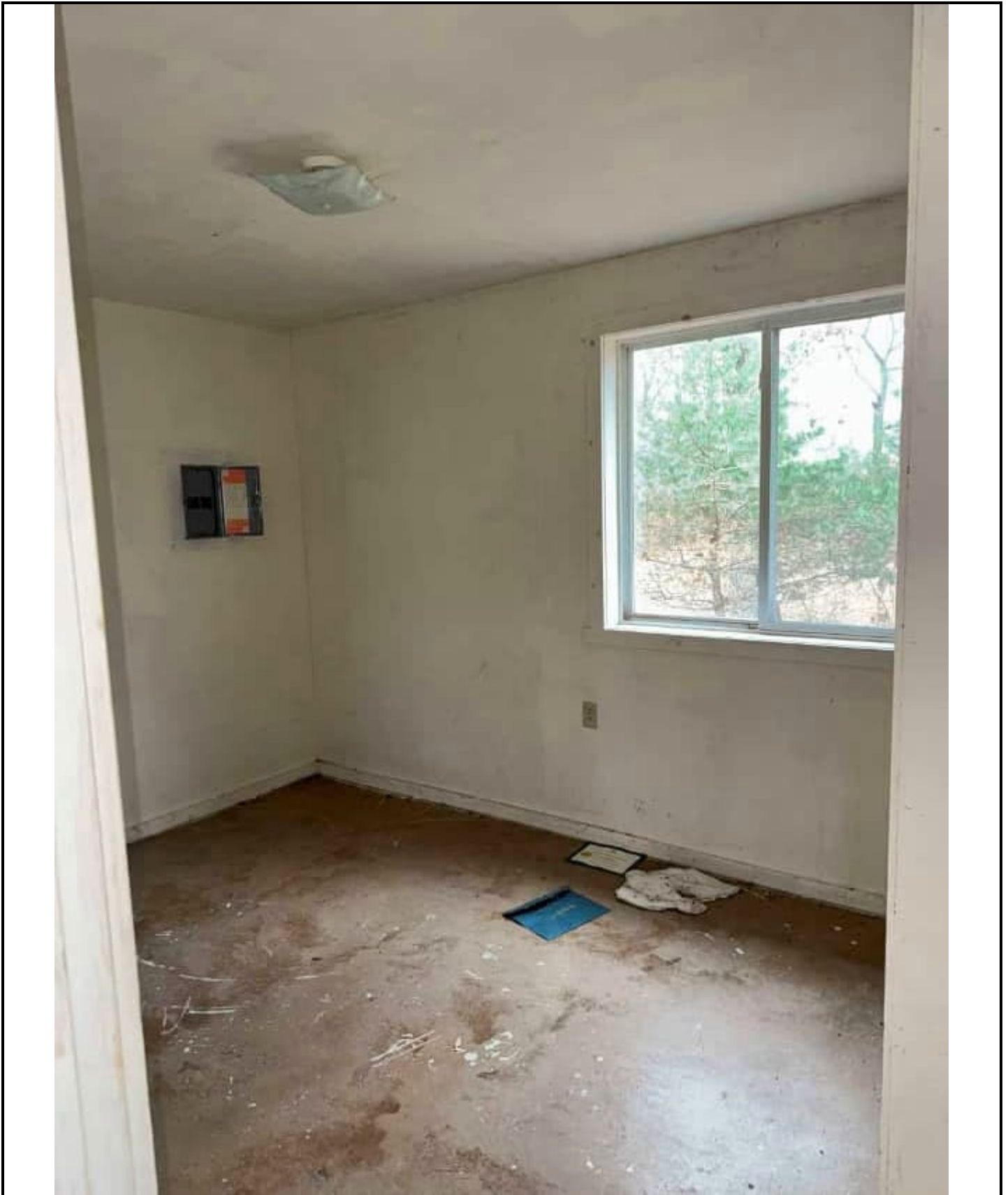
Date	12/18/2024	Photo #  46		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:	240218
Subject	View from exterior door of fourth apartment-style space on north side of multi-residential building. View of kitchen, photographed facing west.			




Date	12/18/2024	Photo #  <b>47</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Kitchen space, facing southwest.			




Date	12/18/2024	Photo #  <b>48</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Bathroom inside fourth apartment-style space.			




Date	12/18/2024	Photo #  49		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of bedroom, facing southwest.			




Date	12/18/2024	Photo #  50		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of bedroom, facing northwest.			




Date	12/18/2024	<div>Photo # <b>51</b></div> <div> <b>Gosling Czubak</b> engineering sciences, inc.</div> <div>GCES Project No: 240218</div>	
Site	Bull Corner		
Client	Little River Band of Ottawa Indians		
Subject	Outbuilding east of multi-story residential building, photograph taken facing west.		




Date	12/18/2024	Photo #  52		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Interior of outbuilding east of residential multi-story building.			




Date	12/18/2024	Photo #  <b>53</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Northeast corner of multi-story residential building. Photograph taken facing southwest.			




Date	12/18/2024	Photo #  54		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	North of multi-story residential building.			

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Date	12/18/2024	Photo #  55		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	East side of multi-story residential building.			




Date	12/18/2024	Photo #  <b>56</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:      240218	
Subject	West side of multi-story residential building, photograph taken facing south.			




Date	12/18/2024	Photo #  57		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Southwest corner of multi-story residential building.			




Date	12/18/2024	Photo #  58		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	South side of multi-story residential building. Photograph taken facing northeast.			




Date	12/18/2024	Photo # <b>59</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View inside of living area inside of multi-story building. Door leading to basement pictured, brown door. Photograph taken facing northeast.			




Date	12/18/2024	Photo # <b>60</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of kitchen space taken from living area, photograph taken facing north.			




Date	12/18/2024	Photo #  <div>61</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of kitchen, cans of paint visible.			



Date	12/18/2024	Photo #  62		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	East of kitchen, facing towards bathroom.			




12 19 2024


Date	12/19/2024	Photo #  63		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of bathroom, facing east.			




12 19 2024

Date	12/19/2024	Photo # <b>64</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	View of stairwell leading upstairs.			




Date	12/18/2024	Photo #  <div>65</div>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Garage/barn outbuilding on subject property. Photograph taken facing east.			




Date	12/18/2024	Photo #  <b>66</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:	
Subject	South side of garage/barn outbuilding. Photograph taken facing east.		240218	




Date	12/18/2024	Photo #  <b>67</b>		
Site	Bull Corner		GCES Project No: 240218	
Client	Little River Band of Ottawa Indians			
Subject	Miscellaneous trashed materials south of the garage/barn outbuilding. Photograph taken facing southeast.			




Date	12/18/2024	Photo #  <b>68</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No:      240218	
Subject	Miscellaneous materials on south side of outbuilding.			




Date	12/18/2024	Photo #  <b>69</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Miscellaneous dumped materials on south side of outbuilding. Photograph taken facing east.			




Date	12/18/2024	Photo #  70		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	East side of outbuilding, facing north.			




Date	12/18/2024	Photo #  71		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Barrels on east side of outbuilding. Photograph taken facing northwest.			




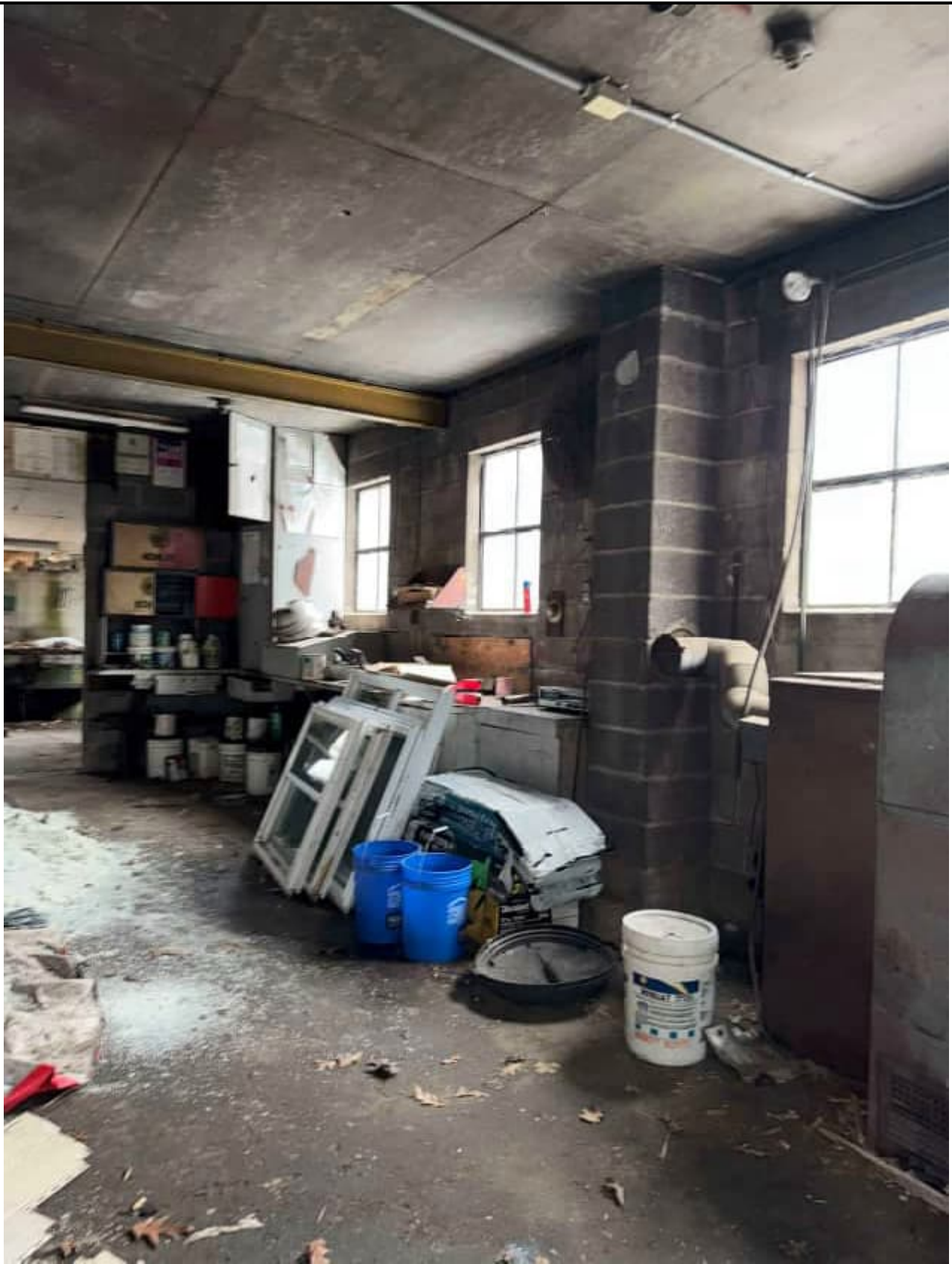
Date	12/18/2024	Photo #  72		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	North view of barrels on east side of outbuilding. Photograph taken facing southwest.		GCES Project No:	240218




Date	12/18/2024	Photo # <b>73</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Interior view of red barn located east of garage/barn outbuilding. Photograph taken facing south.			




Date	12/18/2024	Photo # <b>74</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Interior of garage/barn style outbuilding. Photograph taken facing northeast.			




Date	12/18/2024	Photo # <b>75</b>		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	South side of barn/garage outbuilding.			




12 19 2024

Date	12/19/2024	Photo #  76		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Interior room on east side of building, inside of garage/barn outbuilding.		GCES Project No:	240218




Date	12/19/2024	Photo #  77		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Southeast corner of outbuilding.			




Date	12/18/2024	Photo #  78		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Access drive off of Chippewa Highway. Photograph taken facing southwest.			




12 18 2024

Date	12/18/2024	Photo #  79		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	View of southern adjoining property, facing west.		GCES Project No:	240218




Date	12/18/2024	Photo #  80		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians			
Subject	Access drive into subject property off of Chippewa Highway, facing north.		GCES Project No:	240218



Date	12/18/2024	Photo #  81		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Utility boxes located on south side of subject property, north of Chippewa Highway.			



Date	12/18/2024	Photo #  82		
Site	Bull Corner			
Client	Little River Band of Ottawa Indians		GCES Project No: 240218	
Subject	Barrel and other chemicals located in red barn east of garage.			

## Attachment 5

### EDR Environmental Database Search Report



**Bull Corner**

2853 ORCHARD HWY  
MANISTEE, MI 49660

Inquiry Number: 7816119.30s  
November 07, 2024

# The EDR Radius Map™ Report with GeoCheck®



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://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 (E1527 - 21), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E2247 - 16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E1528 - 22) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

### TARGET PROPERTY INFORMATION

#### ADDRESS

2853 ORCHARD HWY  
MANISTEE, MI 49660

#### COORDINATES

Latitude (North):	44.2877340 - 44° 17' 15.84"
Longitude (West):	86.2409520 - 86° 14' 27.42"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	560562.9
UTM Y (Meters):	4903895.5
Elevation:	694 ft. above sea level

### USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14455005 ONEKAMA, MI
Version Date:	2019
Northwest Map:	14457705 PARKDALE, MI
Version Date:	2019

### AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20200728
Source:	USDA

# MAPPED SITES SUMMARY

Target Property Address:  
2853 ORCHARD HWY  
MANISTEE, MI 49660

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
<a href="#">A1</a>	2743 - 2807 ORCHARD	2743 - 2807 ORCHARD	BEA	Higher	1 ft.
<a href="#">A2</a>	2743 - 2807 ORCHARD	2743 - 2807 ORCHARD	PART 201, INVENTORY	Higher	1 ft.
<a href="#">B3</a>	BP STATION	2596 LOON	EDR Hist Auto	Higher	252, 0.048, SSW
<a href="#">B4</a>	LITTLE RIVER TRADING	2596 LOON DRIVE	INDIAN UST	Higher	252, 0.048, SSW
<a href="#">5</a>	LITTLE RIVER BAND DU		IHS OPEN DUMPS	Lower	1163, 0.220, South
<a href="#">6</a>	NEISEN & REVOLT PROD	M22 AND US31	US BROWNFIELDS, FINDS	Higher	1193, 0.226, NNE
<a href="#">7</a>	LITTLE RIVER CASINO	2700 ORCHARD HWY	RCRA-VSQG, ECHO	Lower	1308, 0.248, WSW
<a href="#">8</a>	LITTLE RIVER BAND DU		IHS OPEN DUMPS	Lower	1695, 0.321, South
<a href="#">9</a>	LRB OF OTTAWA INDIAN	M-22 & US-31	DEL PART 201	Higher	1912, 0.362, NW
<a href="#">10</a>	MANISTEE ORCHARDS FR	2500 DONTZ ROAD	INVENTORY, PART 201, BEA	Higher	2722, 0.516, WNW
<a href="#">11</a>	RES WELL RIVER ROAD	2770 RIVER ROAD	PART 201, INVENTORY	Lower	3565, 0.675, SSW
<a href="#">12</a>	3511 & 3514 JEBAVY R	3511 & 3514 JEBAVY R	INVENTORY, PART 201, BEA	Higher	4451, 0.843, NNE
<a href="#">13</a>	3642 ORCHARD HIGHWAY	3642 ORCHARD HIGHWAY	INVENTORY, PART 201, BEA	Higher	4533, 0.859, North
<a href="#">14</a>	MANISTEE COUNTY BLAC	2323 AIRPORT ROAD, B	INVENTORY, PART 201, BEA	Lower	5039, 0.954, SW

## 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

#### ***Lists of Federal NPL (Superfund) sites***

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

#### ***Lists of Federal Delisted NPL sites***

Delisted NPL..... National Priority List Deletions

#### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

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

#### ***Lists of Federal CERCLA sites with NFRAP***

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

#### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS..... Corrective Action Report

#### ***Lists of Federal RCRA TSD facilities***

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

#### ***Lists of Federal RCRA generators***

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

#### ***Federal institutional controls / engineering controls registries***

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

## EXECUTIVE SUMMARY

### ***Federal ERNS list***

ERNS..... Emergency Response Notification System

### ***Lists of state- and tribal hazardous waste facilities***

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

### ***Lists of state and tribal landfills and solid waste disposal facilities***

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

### ***Lists of state and tribal leaking storage tanks***

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

### ***Lists of state and tribal registered storage tanks***

FEMA UST..... Underground Storage Tank Listing  
UST..... Underground Storage Tank Facility List  
AST..... Aboveground Tanks

### ***State and tribal institutional control / engineering control registries***

AUL..... Engineering and Institutional Controls

### ***Lists of state and tribal voluntary cleanup sites***

INDIAN VCP..... Voluntary Cleanup Priority Listing

### ***Lists of state and tribal brownfield sites***

BROWNFIELDS..... Brownfields and UST Site Database

### **ADDITIONAL ENVIRONMENTAL RECORDS**

#### ***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  
DEBRIS REGION 9..... Torres Martinez Reservation Illegal Dump Site Locations  
ODI..... Open Dump Inventory

#### ***Local Lists of Hazardous waste / Contaminated Sites***

US HIST CDL..... Delisted National Clandestine Laboratory Register  
CDL..... Clandestine Drug Lab Listing  
US CDL..... National Clandestine Laboratory Register

#### ***Local Land Records***

LIENS..... Lien List

## EXECUTIVE SUMMARY

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  
 SCRDRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing  
 USFINASSUR..... Financial Assurance Information  
 EPAWATCHLIST..... EPA WATCH LIST  
 2020CORACTION..... 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  
 COALASHDOE..... Steam-Electric Plant Operation Data  
 COALASHEPA..... Coal Combustion Residues Surface Impoundments List  
 PCBTRANSFORMER..... PCB Transformer Registration Database  
 RADINFO..... Radiation Information Database  
 HISTFTTS..... FIFRA/TSCA Tracking System Administrative Case Listing  
 DOTOPS..... Incident and Accident Data  
 CONSENT..... Superfund (CERCLA) Consent Decrees  
 INDIANRESERV..... Indian Reservations  
 FUSRAP..... Formerly Utilized Sites Remedial Action Program  
 UMTRA..... Uranium Mill Tailings Sites  
 LEADSMELTERS..... Lead Smelter Sites  
 USAIRS..... Aerometric Information Retrieval System Facility Subsystem  
 USMINES..... Mines Master Index File  
 ABANDONEDMINES..... Abandoned Mines  
 MINESMRDS..... Mineral Resources Data System  
 FINDS..... Facility Index System/Facility Registry System  
 UXO..... Unexploded Ordnance Sites  
 DOCKETHWC..... Hazardous Waste Compliance Docket Listing  
 ECHO..... Enforcement & Compliance History Information  
 FUELSPROGRAM..... EPA Fuels Program Registered Listing  
 PFASNPL..... Superfund Sites with PFAS Detections Information  
 PFASFEDERALSITES..... Federal Sites PFAS Information  
 PFASTSCA..... PFAS Manufacture and Imports Information  
 PFASTRIS..... List of PFAS Added to the TRI  
 PFASRCRAMANIFEST..... PFAS Transfers Identified In the RCRA Database Listing  
 PFASATSDR..... PFAS Contamination Site Location Listing  
 PFASWQP..... Ambient Environmental Sampling for PFAS

## EXECUTIVE SUMMARY

PFAS NPDES.....	Clean Water Act Discharge Monitoring Information
PFAS PROJECT.....	NORTHEASTERN UNIVERSITY PFAS PROJECT
PFAS ECHO.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS ECHO FIRE TRAIN.....	Facilities in Industries that May Be Handling PFAS Listing
PFAS PT 139 AIRPORT.....	All Certified Part 139 Airports PFAS Information Listing
AQUEOUS FOAM NRC.....	Aqueous Foam Related Incidents Listing
BIOSOLIDS.....	ICIS-NPDES Biosolids Facility Data
E MANIFEST.....	Hazardous Waste Electronic Manifest System
PFAS.....	PFAS Contaminated Sites Listing
AQUEOUS FOAM.....	Aqueous Film Foam Listing
AIRS.....	Permit and Emissions Inventory Data
ASBESTOS.....	ASBESTOS
COAL ASH.....	Coal Ash Disposal Sites
DRYCLEANERS.....	Drycleaning Establishments
Financial Assurance.....	Financial Assurance Information Listing
LEAD.....	Lead Information Registry Listing
LEAD.....	Lead Information Registry Listing
MANIFEST.....	Hazardous Waste Manifest Data
NPDES.....	List of Active NPDES Permits
UIC.....	Underground Injection Wells Database
WDS.....	Waste Data System
ENVIRO.....	Michigan Enviro Information
SSCUP.....	State Owned Sites Cleanup Program List

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR MGP.....	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner.....	EDR Exclusive Historical 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.

## EXECUTIVE SUMMARY

### STANDARD ENVIRONMENTAL RECORDS

#### ***Lists of Federal RCRA generators***

RCRA-VSQG: 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

A review of the RCRA-VSQG list, as provided by EDR, and dated 06/03/2024 has revealed that there is 1 RCRA-VSQG site within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LITTLE RIVER CASINO</b> EPA ID:: MIK428654719	<b>2700 ORCHARD HWY</b>	<b>WSW 1/8 - 1/4 (0.248 mi.)</b>	<b>7</b>	<b>13</b>

#### ***Lists of state and tribal registered storage tanks***

INDIAN UST: A listing of underground storage tank locations on Indian Land.

A review of the INDIAN UST list, as provided by EDR, has revealed that there is 1 INDIAN UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LITTLE RIVER TRADING</b> Database: INDIAN UST R5, Date of Government Version: 04/11/2024 Tank status: Currently in Use Facility ID: LR5001	<b>2596 LOON DRIVE</b>	<b>SSW 0 - 1/8 (0.048 mi.)</b>	<b>B4</b>	<b>9</b>

### ADDITIONAL ENVIRONMENTAL RECORDS

#### ***Local Brownfield lists***

US BROWNFIELDS: The EPA's listing of Brownfields properties from the Cleanups in My Community program, which provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/10/2024 has revealed that there is 1 US BROWNFIELDS 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>
<b>NEISEN &amp; REVOLT PROD</b>	<b>M22 AND US31</b>	<b>NNE 1/8 - 1/4 (0.226 mi.)</b>	<b>6</b>	<b>11</b>

## EXECUTIVE SUMMARY

### Local Lists of Landfill / Solid Waste Disposal Sites

IHS OPEN DUMPS: A listing of all open dumps located on Indian Land in the United States.

A review of the IHS OPEN DUMPS list, as provided by EDR, and dated 04/01/2014 has revealed that there are 2 IHS OPEN DUMPS sites 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>
LITTLE RIVER BAND DU		S 1/8 - 1/4 (0.220 mi.)	5	10
LITTLE RIVER BAND DU		S 1/4 - 1/2 (0.321 mi.)	8	16

### Local Lists of Hazardous waste / Contaminated Sites

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 07/15/2024 has revealed that there are 6 PART 201 sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>2743 - 2807 ORCHARD</b> Facility ID: 51100067	<b>2743 - 2807 ORCHARD</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>A2</b>	<b>8</b>
<b>MANISTEE ORCHARDS FR</b> Facility ID: 51100080	<b>2500 DONTZ ROAD</b>	<b>WNW 1/2 - 1 (0.516 mi.)</b>	<b>10</b>	<b>17</b>
<b>3511 &amp; 3514 JEBAVY R</b> Facility ID: 51100070	<b>3511 &amp; 3514 JEBAVY R</b>	<b>NNE 1/2 - 1 (0.843 mi.)</b>	<b>12</b>	<b>20</b>
<b>3642 ORCHARD HIGHWAY</b> Facility ID: 51100071	<b>3642 ORCHARD HIGHWAY</b>	<b>N 1/2 - 1 (0.859 mi.)</b>	<b>13</b>	<b>21</b>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>RES WELL RIVER ROAD</b> Facility ID: 51000191	<b>2770 RIVER ROAD</b>	<b>SSW 1/2 - 1 (0.675 mi.)</b>	<b>11</b>	<b>19</b>
<b>MANISTEE COUNTY BLAC</b> Facility Status: Inactive - no actions taken to address contamination Facility ID: 51000173	<b>2323 AIRPORT ROAD, B</b>	<b>SW 1/2 - 1 (0.954 mi.)</b>	<b>14</b>	<b>22</b>

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

## EXECUTIVE SUMMARY

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 07/15/2024 has revealed that there is 1 INVENTORY 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>
<b>2743 - 2807 ORCHARD</b> Facility ID: 51100067	<b>2743 - 2807 ORCHARD</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>A2</b>	<b>8</b>

DEL PART 201: 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.

A review of the DEL PART 201 list, as provided by EDR, and dated 07/15/2024 has revealed that there is 1 DEL PART 201 site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<b>LRB OF OTTAWA INDIAN</b> Facility Id: 51000177	<b>M-22 &amp; US-31</b>	<b>NW 1/4 - 1/2 (0.362 mi.)</b>	<b>9</b>	<b>17</b>

### ***Other Ascertainable Records***

BEA: 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 BEA list, as provided by EDR, and dated 08/15/2024 has revealed that there is 1 BEA 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>
<b>2743 - 2807 ORCHARD</b>	<b>2743 - 2807 ORCHARD</b>	<b>0 - 1/8 (0.000 mi.)</b>	<b>A1</b>	<b>8</b>

## EXECUTIVE SUMMARY

### EDR HIGH RISK HISTORICAL RECORDS

#### ***EDR Exclusive Records***

EDR Hist Auto: 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.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto site within approximately 0.125 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
BP STATION	2596 LOON	SSW 0 - 1/8 (0.048 mi.)	B3	9

## EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

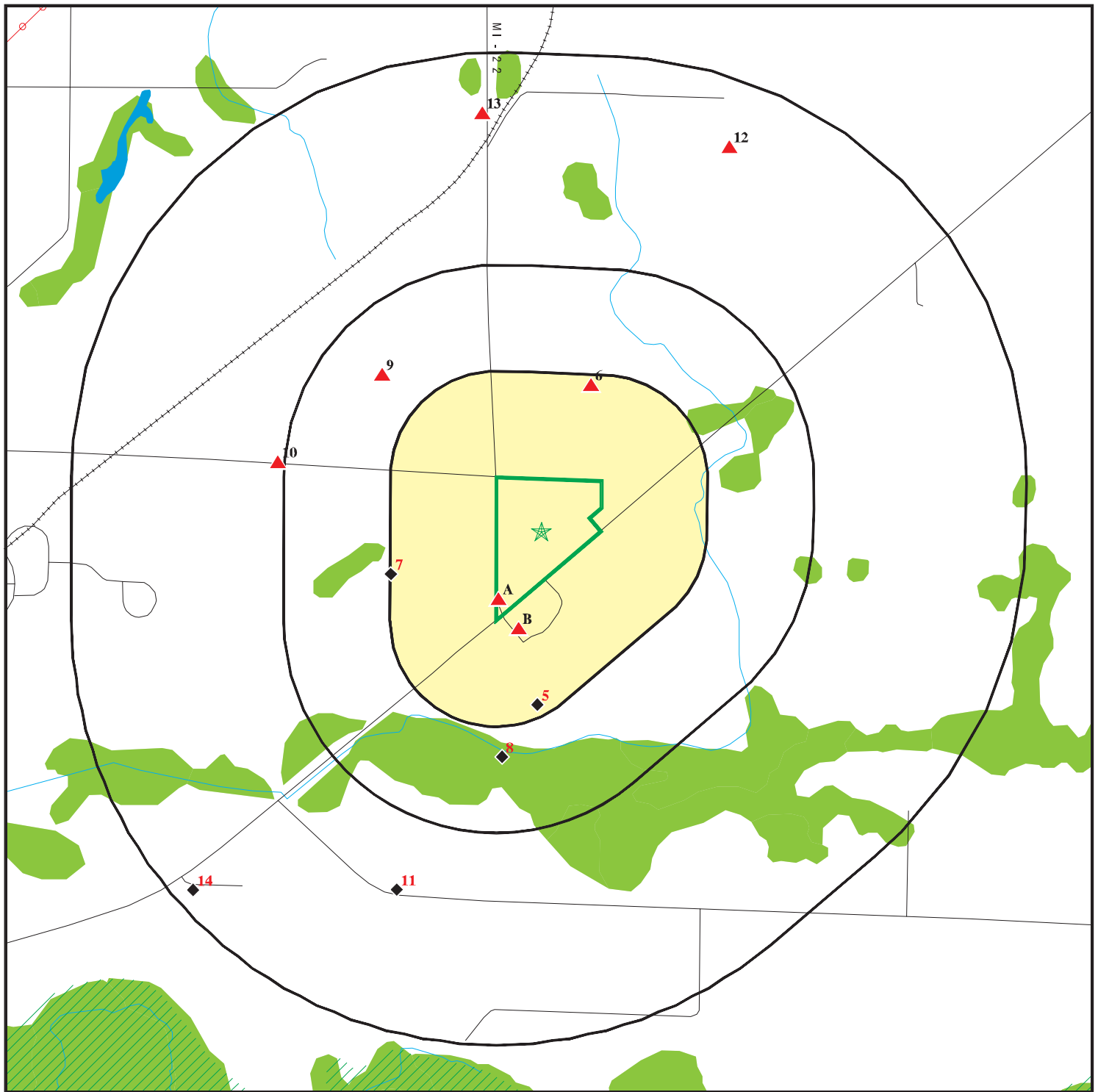
Site Name












419, 421, AND 423 RIVER STREET  
3471 SOUTH US-31 HIGHWAY

Database(s)

PART 201, INVENTORY  
INVENTORY, PART 201, BEA  
CDL  
CDL

# OVERVIEW MAP - 7816119.30S



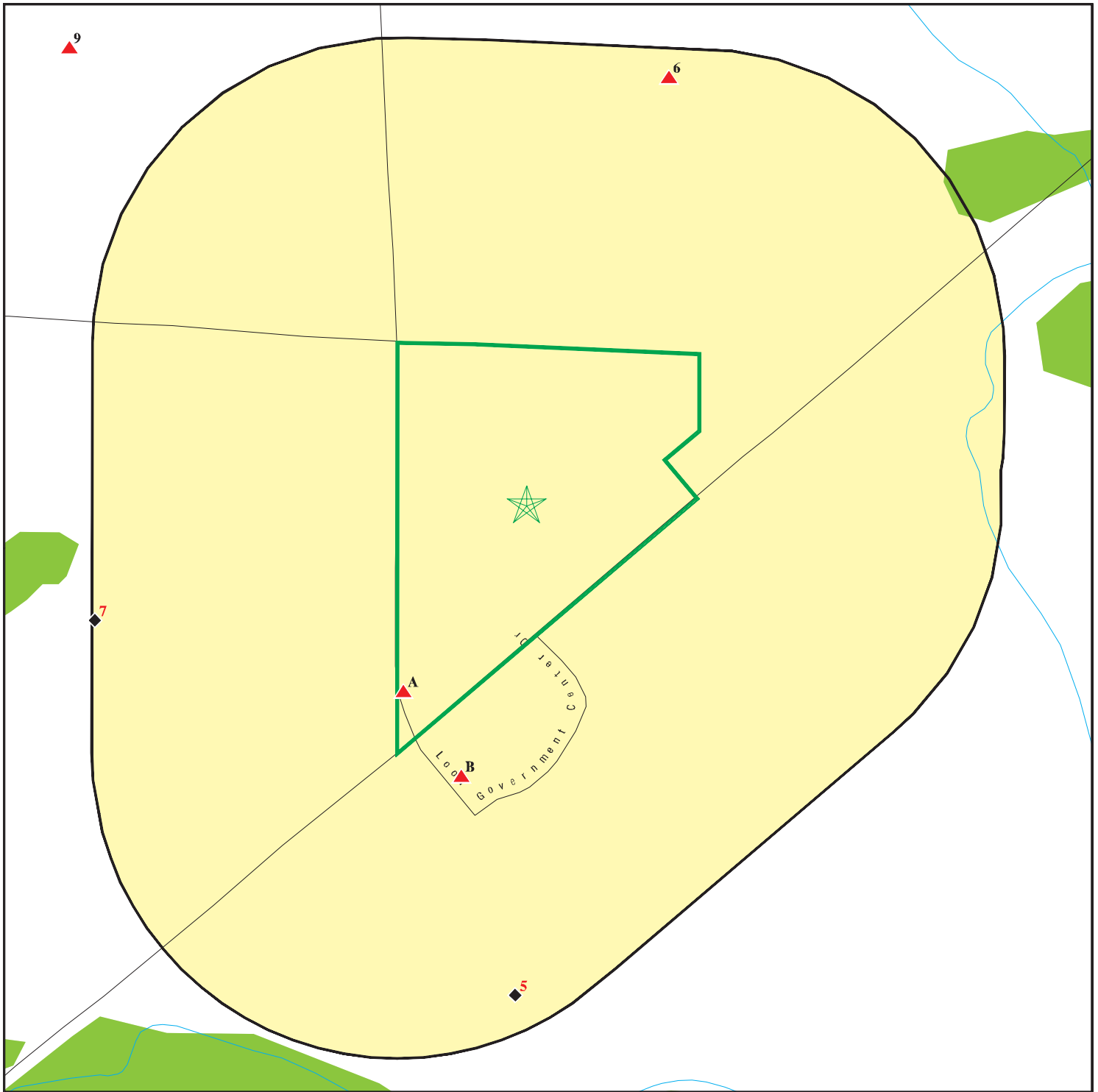
-  Target Property
-  Sites at elevations higher than or equal to the target property
-  Sites at elevations lower than the target property
-  Manufactured Gas Plants
-  National Priority List Sites
-  Dept. Defense Sites
-  Indian Reservations BIA
-  Power transmission lines
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  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: Bull Corner  
 ADDRESS: 2853 ORCHARD HWY  
 MANISTEE MI 49660  
 LAT/LONG: 44.287734 / 86.240952

CLIENT: Gosling Czubak  
 CONTACT: Fern Sexton  
 INQUIRY #: 7816119.30s  
 DATE: November 07, 2024 4:04 pm

# DETAIL MAP - 7816119.30S



-  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
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  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: Bull Corner  
 ADDRESS: 2853 ORCHARD HWY  
 MANISTEE MI 49660  
 LAT/LONG: 44.287734 / 86.240952

CLIENT: Gosling Czubak  
 CONTACT: Fern Sexton  
 INQUIRY #: 7816119.30s  
 DATE: November 07, 2024 4:05 pm

## 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
<b>STANDARD ENVIRONMENTAL RECORDS</b>								
<b><i>Lists of Federal NPL (Superfund) sites</i></b>								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal Delisted NPL sites</i></b>								
Delisted NPL	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal sites subject to CERCLA removals and CERCLA orders</i></b>								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal CERCLA sites with NFRAP</i></b>								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA facilities undergoing Corrective Action</i></b>								
CORRACTS	1.000		0	0	0	0	NR	0
<b><i>Lists of Federal RCRA TSD facilities</i></b>								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
<b><i>Lists of Federal RCRA generators</i></b>								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		0	1	NR	NR	NR	1
<b><i>Federal institutional controls / engineering controls registries</i></b>								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
<b><i>Federal ERNS list</i></b>								
ERNS	TP		NR	NR	NR	NR	NR	0
<b><i>Lists of state- and tribal hazardous waste facilities</i></b>								
SHWS	1.000		0	0	0	0	NR	0
<b><i>Lists of state and tribal landfills and solid waste disposal facilities</i></b>								
SWF/LF	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal leaking storage tanks</i></b>								
LUST	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
INDIAN LUST	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal registered storage tanks</i></b>								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		1	0	NR	NR	NR	1
<b><i>State and tribal institutional control / engineering control registries</i></b>								
AUL	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal voluntary cleanup sites</i></b>								
INDIAN VCP	0.500		0	0	0	NR	NR	0
<b><i>Lists of state and tribal brownfield sites</i></b>								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
<b><u>ADDITIONAL ENVIRONMENTAL RECORDS</u></b>								
<b><i>Local Brownfield lists</i></b>								
US BROWNFIELDS	0.500		0	1	0	NR	NR	1
<b><i>Local Lists of Landfill / Solid Waste Disposal Sites</i></b>								
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
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	1	1	NR	NR	2
<b><i>Local Lists of Hazardous waste / Contaminated Sites</i></b>								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
PART 201	1.000		1	0	0	5	NR	6
INVENTORY	0.500		1	0	0	NR	NR	1
CDL	TP		NR	NR	NR	NR	NR	0
DEL PART 201	1.000		0	0	1	0	NR	1
US CDL	TP		NR	NR	NR	NR	NR	0
<b><i>Local Land Records</i></b>								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
<b><i>Records of Emergency Release Reports</i></b>								
HMIRS	TP		NR	NR	NR	NR	NR	0
SPILLS	TP		NR	NR	NR	NR	NR	0
<b><i>Other Ascertainable Records</i></b>								
RCRA NonGen / NLR	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
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
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
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
MINES MRDS	0.250		0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP		NR	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
PFAS NPL	0.250		0	0	NR	NR	NR	0
PFAS FEDERAL SITES	0.250		0	0	NR	NR	NR	0
PFAS TSCA	0.250		0	0	NR	NR	NR	0
PFAS TRIS	0.250		0	0	NR	NR	NR	0
PFAS RCRA MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS ATSDR	0.250		0	0	NR	NR	NR	0
PFAS WQP	0.250		0	0	NR	NR	NR	0
PFAS NPDES	0.250		0	0	NR	NR	NR	0
PFAS PROJECT	0.250		0	0	NR	NR	NR	0
PFAS ECHO	0.250		0	0	NR	NR	NR	0
PFAS ECHO FIRE TRAIN	0.250		0	0	NR	NR	NR	0
PFAS PT 139 AIRPORT	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM NRC	0.250		0	0	NR	NR	NR	0
BIOSOLIDS	TP		NR	NR	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
E MANIFEST	0.250		0	0	NR	NR	NR	0
PFAS	0.250		0	0	NR	NR	NR	0
AQUEOUS FOAM	0.250		0	0	NR	NR	NR	0
AIRS	TP		NR	NR	NR	NR	NR	0
ASBESTOS	TP		NR	NR	NR	NR	NR	0
BEA	0.500		1	0	0	NR	NR	1
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
LEAD	TP		NR	NR	NR	NR	NR	0
MANIFEST	0.250		0	0	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
ENVIRO	TP		NR	NR	NR	NR	NR	0
SSCUP	0.500		0	0	0	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		1	NR	NR	NR	NR	1
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
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0

- Totals --		0	5	3	2	5	0	15
-------------	--	---	---	---	---	---	---	----

#### 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		Database(s)	EDR ID Number EPA ID Number
<b>A1</b>  <b>&lt; 1/8</b> <b>1 ft.</b>	<b>2743 - 2807 ORCHARD HIGHWAY</b> <b>2743 - 2807 ORCHARD HIGHWAY</b> <b>MANISTEE (County), MI 49660</b>		<b>BEA</b>	<b>S127499422</b> <b>N/A</b>
	<b>Site 1 of 2 in cluster A</b>			
<b>Relative:</b> <b>Higher</b>	<b>BEA:</b>			
<b>Actual:</b> <b>701 ft.</b>	Name: 2743 - 2807 ORCHARD HIGHWAY			
	Address: 2743 - 2807 ORCHARD HIGHWAY			
	City,State,Zip: MI 49660			
	Secondary Address: Not reported			
	BEA Number: Not reported			
	District: Not reported			
	Date Received: 10/23/2006			
	Submitter Name: Not reported			
	Petition Determination: Not reported			
	Petition Disclosure: Not reported			
	Category: Not reported			
	Determination 20107A: Not reported			
	Reviewer: Not reported			
	Division Assigned: Not reported			
	Location ID: 51100067			
	Submittal Type: Baseline Environmental Assessment			
	Submittal Number: B200600489CA			
	Approval Status: RRD Received			
	Workflow Status: Submitted			
	Date Submitted: 10/23/2006			
	Date Completed: Not reported			
	Township: Manistee City			
	Work Unit: Cadillac			
	Comments: Not reported			
	Organization: Little River Band of Ottawa Indians			
	Contact: Not reported			
	Contact Type: Not reported			
	Organization Street Address: Not reported			
	Organization City: Not reported			
	Organization State: Not reported			
	Organization Zip Code: Not reported			
	Organization County: Not reported			
	Contact Street Address: Not reported			
	Contact City: Not reported			
	Contact Zip Code: Not reported			
	Contact State: Not reported			
<b>A2</b>  <b>&lt; 1/8</b> <b>1 ft.</b>	<b>2743 - 2807 ORCHARD HIGHWAY</b> <b>2743 - 2807 ORCHARD HIGHWAY</b> <b>MANISTEE, MI 49660</b>		<b>PART 201</b> <b>INVENTORY</b>	<b>S128642200</b> <b>N/A</b>
	<b>Site 2 of 2 in cluster A</b>			
<b>Relative:</b> <b>Higher</b>	<b>PART 201:</b>			
<b>Actual:</b> <b>701 ft.</b>	Name: 2743 - 2807 ORCHARD HIGHWAY			
	Address: 2743 - 2807 ORCHARD HIGHWAY			
	City,State,Zip: MANISTEE, MI 49660			
	Facility ID: 51100067			
	Facility Status: Not reported			
	Latitude: 44.28740157			
	Source: Not reported			
	Longitude: -86.24185792			
	SAM Score: Not reported			

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**2743 - 2807 ORCHARD HIGHWAY (Continued)**

**S128642200**

SAM Score Date: Not reported  
Township: Not reported  
Range: Not reported  
Section: Not reported  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Pollutants: Not reported  
Location Type: 201  
Work Unit: Not reported  
Project Manager: Wheeler, Brandi  
Risk Condition: Risks Present and Require Action in Short-term

**INVENTORY:**

Name: 2743 - 2807 ORCHARD HIGHWAY  
Address: 2743 - 2807 ORCHARD HIGHWAY  
City,State,Zip: MANISTEE, MI 49660  
Township: Manistee  
District: Cadillac  
Data Source: Risks Present and Require Action in Short-term  
Lust Name: Not reported  
Regulatory Program: 201  
Release Status: Not reported  
Project Manager: Wheeler, Brandi  
Latitude: 44.28740157  
Longitude: -86.24185792

**B3**  
**SSW**  
**< 1/8**  
**0.048 mi.**  
**252 ft.**

**BP STATION**  
**2596 LOON**  
**MANISTEE, MI 49660**  
**Site 1 of 2 in cluster B**

**EDR Hist Auto** **1020298444**  
**N/A**

**Relative:**  
**Higher**

EDR Hist Auto

**Actual:**  
**702 ft.**

Year:	Name:	Type:
2011	BP STATION	Gasoline Service Stations, NEC
2012	BP STATION	Gasoline Service Stations, NEC
2013	BP STATION	Gasoline Service Stations, NEC
2014	BP STATION	Gasoline Service Stations, NEC

**B4**  
**SSW**  
**< 1/8**  
**0.048 mi.**  
**252 ft.**

**LITTLE RIVER TRADING POST**  
**2596 LOON DRIVE**  
**MANISTEE, MI 49660**  
**Site 2 of 2 in cluster B**

**INDIAN UST** **1011906467**  
**N/A**

**Relative:**  
**Higher**

Indian UST:

**Actual:**  
**702 ft.**

Region: 5  
Facility ID: LR5001  
Name: LITTLE RIVER TRADING POST  
Address: 2596 LOON DRIVE  
City,State,Zip: MANISTEE, MI 49660  
Tank ID: Tank 1  
Tank status: Currently in Use  
Substance: Gasoline (containing <=10% ethanol)  
Tribe: Little River Band of Ottawa Indians, Michigan

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER TRADING POST (Continued)**

**1011906467**

Date installed:	Not reported
Cmpartment Name:	Tank 1 Compartment 1
Overfill Installed:	False
Spill Installed:	False
Compartment Capacity:	Not reported
Region:	5
Facility ID:	LR5001
Name:	LITTLE RIVER TRADING POST
Address:	2596 LOON DRIVE
City,State,Zip:	MANISTEE, MI 49660
Tank ID:	Tank 1
Tank status:	Currently in Use
Substance:	Gasoline (containing <=10% ethanol)
Tribe:	Little River Band of Ottawa Indians, Michigan
Date installed:	Not reported
Cmpartment Name:	Tank 1 Compartment 3
Overfill Installed:	True
Spill Installed:	True
Compartment Capacity:	Not reported
Region:	5
Facility ID:	LR5001
Name:	LITTLE RIVER TRADING POST
Address:	2596 LOON DRIVE
City,State,Zip:	MANISTEE, MI 49660
Tank ID:	Tank 1
Tank status:	Currently in Use
Substance:	Diesel
Tribe:	Little River Band of Ottawa Indians, Michigan
Date installed:	Not reported
Cmpartment Name:	Tank 1 Compartment 2
Overfill Installed:	False
Spill Installed:	False
Compartment Capacity:	Not reported

**5**  
**South**  
**1/8-1/4**  
**0.220 mi.**  
**1163 ft.**

**LITTLE RIVER BAND DUMP #5**

**IHS OPEN DUMPS**

**1016946719**  
**N/A**

**, MI**

**Relative:**  
**Lower**  
**Actual:**  
**686 ft.**

IHS OPEN DUMPS:	
EPA Region:	5
IHS Area:	BE
Tribe:	LITTLE RIVER BAND OF OTTAWA INDIANS
edr_fname:	Little River Band Dump #5
edr_fadd1:	Not reported
City,State,Zip:	MI
System Type:	Solid Waste Disposal Site
Status:	Inactive
Condition:	Open Dump - Closed
Condition Date:	2006-01-31 00:00:00
Health Threat:	Not reported
Health Threat Score:	No score
Contents:	D
Surface Area (acres):	Not reported
N Latitude:	44.281889

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER BAND DUMP #5 (Continued)**

**1016946719**

W Longitude: 86.241139000000004

**6**  
**NNE**  
**1/8-1/4**  
**0.226 mi.**  
**1193 ft.**

**NEISEN & REVOLT PRODUCTS BA**  
**M22 AND US31**  
**MANISTEE, MI 49660**

**US BROWNFIELDS**  
**FINDS**

**1016353736**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**717 ft.**

**US BROWNFIELDS:**

Name: NEISEN & REVOLT PRODUCTS BA  
Address: M22 AND US31  
City,State,Zip: MANISTEE, MI 49660  
Property ID: 109462  
Property Alias: Not reported  
Recipient Name: R5 TBA - Michigan (Pre-law Superfund TBA)  
Grant Type: Hazardous  
Property Number: 51-07-122-013-00 51-07-127-004-50 -07-127-005-05 and 51-07-740-033-00  
Parcel Size: 110  
Latitude: 44.2928  
Longitude: -86.2386  
Census Tract: 26101000400  
State or Tribal Voluntary Response Program: Not reported  
Program Name: Not reported  
AA Activity Funded: Not reported  
Start Date: Not reported  
Redev Completion Date: Not reported  
Completed Date: Not reported  
Cleanup Funding: Not reported  
Cleanup Funding Source: Not reported  
Activity Funded: Not reported  
Assessment Funding: Not reported  
Assessment Funding Source: Not reported  
Redevelopment Funding: Not reported  
Contaminants REC: Not reported  
Contaminants Found at Actionable Level: Not reported  
Redev. Funding Source: Not reported  
Redev. Funding Entity Name: Not reported  
Contaminants Found Below Actionable Level: Not reported  
Redevelopment Start Date: Not reported  
Assessment Funding Entity: US EPA Region V  
Cleanup Funding Entity: Not reported  
Climate Adapt Mitig - Planning or Assessment: Not reported  
Cooperative Agreement Number: n/a  
Start Date: 2009-09-01 00:00:00  
Ownership Entity: Government  
Additional Institutional Controls Information: Not reported  
Completion Date: 2009-11-02 00:00:00  
Address of Data Sources (URL if available) 1: Not reported  
Cleanup Required: U  
Indicates Cleanup/Treatment Tech Implemented: Not reported  
Institutional Controls Required: U  
IC Category Proprietary Controls: Not reported  
Excavation and Disposal of Soils: Not reported  
Extraction of contaminants: Not reported  
IC Cat. Info. Devices: Not reported  
Removal of materials (tanks and piping, etc.): Not reported  
IC Cat. Gov. Controls: Not reported  
Reduction of Contam Bioremediation/Phytoremediation: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEISEN & REVOLT PRODUCTS BA (Continued)**

**1016353736**

IC Cat. Enforcement Permit Tools:	Not reported
Cleanup of structures:	Not reported
IC in place date:	Not reported
Additional Cleanup/Treatment Tech Info:	Not reported
IC in place:	Not reported
Address of Data Source (URL if available) 2:	Not reported
Indicate whether Engineering Controls are required:	Not reported
State/tribal program ID:	Not reported
Cover Technologies (e.g., Capping):	Not reported
Security (e.g., Guard, Fence):	Not reported
Immobilization Process:	Not reported
Engineering Barriers (e.g., Slurry Walls, Sheet):	Not reported
Other:	Not reported
Additional Engineering Controls Information:	Not reported
Address of Data Source (URL if available) 3:	Not reported
Indicate whether Engineering Controls are in place:	Not reported
Date Engineering Controls put into place:	Not reported
ACRES Cleaned Up:	Not reported
Section 128(a) State/Tribal:	Not reported
Multipurpose - Cost Share Amount:	Not reported
Cleanup - Cost Share Amount:	Not reported
RLF Loan - Total Loan Amount:	Not reported
RLF - Loan Signed Date:	Not reported
RLF Loan - Anticipated Repayment Start Date:	Not reported
RLF Loan - Anticipated Repayment End Date:	Not reported
RLF Loan - Interest Rate:	Not reported
RLF Loan - EPA Funds Used:	Not reported
Contaminant Cleanup:	Not reported
RLF Loan - Cost Share Used:	Not reported
Media Affected:	Soil
RLF Loan - Program Income Used:	Not reported
Media Cleanup:	Not reported
RLF Loan - Discounted:	Not reported
RLF Loan - Discount Percentage:	Not reported
RLF Subgrant - Total Subgrant Amount:	Not reported
RLF Subgrant - Signed Date:	Not reported
RLF Subgrant - EPA Funds Used:	Not reported
RLF Subgrant - Cost Share Used:	Not reported
RLF Subgrant - Program Income Used:	Not reported
RLF Direct Cleanup - Total Funding Amt:	Not reported
Num. of cleanup and re-dev. jobs:	Not reported
RLF Direct Cleanup - Source of Funding:	Not reported
RLF Leveraged - Funding Source Type:	Not reported
Past use greenspace acreage:	109
Past use residential acreage:	1
RLF Leveraged - Entity Providing Funding:	Not reported
RLF Leveraged - Funding Amount:	Not reported
Cleanup Completion Doc - NFA Letter Received:	N
Past use commercial acreage:	Not reported
NFA Letter Date Received:	Not reported
Past use industrial acreage:	Not reported
Cleanup Comp Doc - Letter/Signed Rep Qualified Pro:	N
Future use greenspace acreage:	Not reported
Letter/Signed Report Date Received:	Not reported
Future use residential acreage:	Not reported
Future use commercial acreage:	Not reported
Cleanup Completion Doc- Other forms of Doc:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**NEISEN & REVOLT PRODUCTS BA (Continued)**

**1016353736**

Future use industrial acreage:	Not reported
Climate Adapt and Mitiga - Demo or Cleanup:	Not reported
ReDev Activity Funded:	Not reported
Amount of Funding Expended on this Activity 2:	Not reported
Number of Redevelopment Jobs Leveraged:	Not reported
Climate Adaptation and Mitigation Redevelopment:	Not reported
Radius:	0.5
Below Poverty Number:	Not reported
Below Poverty Percent:	Not reported
Meidan Income:	Not reported
Meidan Income Number:	Not reported
Meidan Income Percent:	Not reported
Vacant Housing Number:	Not reported
Vacant Housing Percent:	Not reported
Unemployed Number:	Not reported
Unemployed Percent:	Not reported

**FINDS:**

Registry ID: 110040478284

[Click Here for FRS Facility Detail Report:](#)

**Environmental Interest/Information System:**

The 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 (TBA) performed by EPA Regions.

[Click this hyperlink](#) while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

**7**  
**WSW**  
**1/8-1/4**  
**0.248 mi.**  
**1308 ft.**

**LITTLE RIVER CASINO RESORT**  
**2700 ORCHARD HWY**  
**MANISTEE, MI 49660**

**RCRA-VSQG** **1007097890**  
**ECHO** **MIK428654719**

**Relative:**  
**Lower**

**Actual:**  
**682 ft.**

**RCRA Listings:**

Date Form Received by Agency:	20160219
Handler Name:	Little River Casino Resort
Handler Address:	2700 Orchard Hwy
Handler City,State,Zip:	MANISTEE, MI 49660
EPA ID:	MIK428654719
Contact Name:	JANELLE A KELLY
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	231-398-3939
Contact Fax:	231-398-3975
Contact Email:	JANELLEK@LRCR.COM
Contact Title:	Not reported
EPA Region:	05
Land Type:	Tribal
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER CASINO RESORT (Continued)**

**1007097890**

State District:	Not reported
Mailing Address:	2700 ORCHARD HWY
Mailing City,State,Zip:	MANISTEE, MI 49660
Owner Name:	Little River Band Ottawa Indians
Owner Type:	Private
Operator Name:	Little River Casino Resort
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
202 GPRA Corrective Action Baseline:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	20160303
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

**Hazardous Waste Summary:**

Waste Code:	D001
Waste Description:	Ignitable Waste

**Handler - Owner Operator:**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LITTLE RIVER BAND OTTAWA INDIANS

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER CASINO RESORT (Continued)**

**1007097890**

Legal Status: Private  
Date Became Current: 19990101  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner  
Owner/Operator Name: LITTLE RIVER BAND OTTAWA INDIANS  
Legal Status: Private  
Date Became Current: 19990101  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: LITTLE RIVER BAND OTTAWA INDIANS  
Legal Status: Private  
Date Became Current: 19990101  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator  
Owner/Operator Name: LITTLE RIVER CASINO RESORT  
Legal Status: Private  
Date Became Current: 19990101  
Date Ended Current: Not reported  
Owner/Operator Address: Not reported  
Owner/Operator City,State,Zip: Not reported  
Owner/Operator Telephone: Not reported  
Owner/Operator Telephone Ext: Not reported  
Owner/Operator Fax: Not reported  
Owner/Operator Email: Not reported

**Historic Generators:**

Receive Date: 20020522  
Handler Name: THE BAUMA CORP  
Federal Waste Generator Description: Not a generator, verified  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: No

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER CASINO RESORT (Continued)**

**1007097890**

Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported  
  
Receive Date: 20160219  
Handler Name: LITTLE RIVER CASINO RESORT  
Federal Waste Generator Description: Conditionally Exempt Small Quantity Generator  
State District Owner: Not reported  
Large Quantity Handler of Universal Waste: No  
Recognized Trader Importer: No  
Recognized Trader Exporter: No  
Spent Lead Acid Battery Importer: No  
Spent Lead Acid Battery Exporter: No  
Current Record: Yes  
Non Storage Recycler Activity: Not reported  
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:

NAICS Code: 23622  
NAICS Description: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION  
  
NAICS Code: 236220  
NAICS Description: COMMERCIAL AND INSTITUTIONAL BUILDING CONSTRUCTION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

ECHO:

Envid: 1007097890  
Registry ID: 110015834971  
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110015834971>  
Name: LITTLE RIVER CASINO RESORT  
Address: 2700 ORCHARD HWY  
City,State,Zip: MANISTEE, MI 49660

**8**  
**South**  
**1/4-1/2**  
**0.321 mi.**  
**1695 ft.**

**LITTLE RIVER BAND DUMP #4**

, MI

**IHS OPEN DUMPS**

**1016946718**  
**N/A**

**Relative:**  
**Lower**  
**Actual:**  
**614 ft.**

IHS OPEN DUMPS:  
EPA Region: 5  
IHS Area: BE  
Tribe: LITTLE RIVER BAND OF OTTAWA INDIANS  
edr\_fname: Little River Band Dump #4  
edr\_fadd1: Not reported  
City,State,Zip: MI  
System Type: Solid Waste Disposal Site  
Status: Inactive  
Condition: Open Dump - Closed  
Condition Date: 2006-01-31 00:00:00  
Health Threat: 1-Low

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**LITTLE RIVER BAND DUMP #4 (Continued)**

**1016946718**

Health Threat Score: No score  
Contents: D  
Surface Area (acres): Not reported  
N Latitude: 44.280110999999998  
W Longitude: 86.242806000000002

**9**  
**NW**  
**1/4-1/2**  
**0.362 mi.**  
**1912 ft.**

**LRB OF OTTAWA INDIANS PW GROUNDS**  
**M-22 & US-31**  
**MANISTEE, MI**

**DEL PART 201** **S113816983**  
**N/A**

**Relative:**  
**Higher**

DEL\_PART201:

**Actual:**  
**708 ft.**

Name: LRB OF OTTAWA INDIANS PW GROUNDS  
Address: M-22 & US-31  
City,State,Zip: MANISTEE, MI  
Facility ID: 51000177  
Status: Delisted - no longer meets criteria specified in rules  
Latitude: Not reported  
Longitude: Not reported  
Township: Not reported  
Source: Not reported  
Pollutants: Not reported  
SAM Score: Not reported  
SAM Score Date: Not reported  
Range: Not reported  
Section: Not reported  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Facility Status: Not reported  
Location Type: Not reported  
Work Unit: Not reported  
Project Manager: Not reported  
Risk Condition: Not reported

**10**  
**WNW**  
**1/2-1**  
**0.516 mi.**  
**2722 ft.**

**MANISTEE ORCHARDS FRUIT PROCESSING PLANT**  
**2500 DONTZ ROAD**  
**MANISTEE, MI 49660**

**INVENTORY** **S127501203**  
**PART 201** **N/A**  
**BEA**

**Relative:**  
**Higher**

INVENTORY:

**Actual:**  
**694 ft.**

Name: MANISTEE ORCHARDS FRUIT PROCESSING PLANT  
Address: 2500 DONTZ ROAD  
City,State,Zip: MANISTEE, MI 49660  
Township: Manistee  
District: Cadillac  
Data Source: Risks Present and Require Action in Short-term  
Lust Name: Not reported  
Regulatory Program: 201  
Release Status: Not reported  
Project Manager: Wheeler, Brandi  
Latitude: 44.2941797  
Longitude: -86.25379408

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANISTEE ORCHARDS FRUIT PROCESSING PLANT (Continued)**

**S127501203**

**PART 201:**

Name:	MANISTEE ORCHARDS FRUIT PROCESSING PLANT
Address:	2500 DONTZ ROAD
City,State,Zip:	MANISTEE, MI 49660
Facility ID:	51100080
Facility Status:	Not reported
Latitude:	44.2941797
Source:	Not reported
Longitude:	-86.25379408
SAM Score:	Not reported
SAM Score Date:	Not reported
Township:	Not reported
Range:	Not reported
Section:	Not reported
Quarter:	Not reported
Quarter/Quarter:	Not reported
Pollutants:	Not reported
Location Type:	201
Work Unit:	Not reported
Project Manager:	Wheeler, Brandi
Risk Condition:	Risks Present and Require Action in Short-term

**BEA:**

Name:	MANISTEE ORCHARDS FRUIT PROCESSING PLANT
Address:	2500 DONTZ ROAD
City,State,Zip:	MANISTEE, MI 49660
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	10/23/2006
Submitter Name:	Not reported
Petition Determination:	Not reported
Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	51100080
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200600487CA
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	10/23/2006
Date Completed:	Not reported
Township:	Manistee
Work Unit:	Cadillac
Comments:	Not reported
Organization:	Little River Bank of Ottawa Indians
Contact:	Not reported
Contact Type:	Not reported
Organization Street Address:	Not reported
Organization City:	Not reported
Organization State:	Not reported
Organization Zip Code:	Not reported
Organization County:	Not reported
Contact Street Address:	Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANISTEE ORCHARDS FRUIT PROCESSING PLANT (Continued)**

**S127501203**

Contact City: Not reported  
Contact Zip Code: Not reported  
Contact State: Not reported

11  
SSW  
1/2-1  
0.675 mi.  
3565 ft.

**RES WELL RIVER ROAD  
2770 RIVER ROAD  
MANISTEE, MI 49660**

**PART 201  
INVENTORY**

**S119009314  
N/A**

**Relative:  
Lower**

**PART 201:**

**Actual:  
617 ft.**

Name: RES WELL RIVER ROAD  
Address: 2770 RIVER ROAD  
City,State,Zip: MANISTEE, MI 49660  
Facility ID: 51000191  
Facility Status: Not reported  
Latitude: 44.275889  
Source: Not reported  
Longitude: -86.247904  
SAM Score: Not reported  
SAM Score Date: Not reported  
Township: Not reported  
Range: Not reported  
Section: Not reported  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Pollutants: Not reported  
Location Type: 201  
Work Unit: Not reported  
Project Manager: Wheeler, Brandi  
Risk Condition: Risks Present and Require Action in Short-term

**INVENTORY:**

Name: RES WELL RIVER ROAD  
Address: 2770 RIVER ROAD  
City,State,Zip: MANISTEE, MI 49660  
Township: Not reported  
District: Cadillac  
Data Source: Risks Present and Require Action in Short-term  
Lust Name: Not reported  
Regulatory Program: 201  
Release Status: Not reported  
Project Manager: Wheeler, Brandi  
Latitude: 44.275889  
Longitude: -86.247904

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

12  
NNE  
1/2-1  
0.843 mi.  
4451 ft.

3511 & 3514 JEBAVY ROAD  
3511 & 3514 JEBAVY ROAD  
MANISTEE, MI 49660

INVENTORY  
PART 201  
BEA

S127499739  
N/A

Relative:  
Higher

Actual:  
746 ft.

INVENTORY:

Name: 3511 & 3514 JEBAVY ROAD  
Address: 3511 & 3514 JEBAVY ROAD  
City,State,Zip: MANISTEE, MI 49660  
Township: Manistee  
District: Cadillac  
Data Source: Risks Present and Require Action in Short-term  
Lust Name: Not reported  
Regulatory Program: 201  
Release Status: Not reported  
Project Manager: Wheeler, Brandi  
Latitude: 44.30099577  
Longitude: -86.23209013

PART 201:

Name: 3511 & 3514 JEBAVY ROAD  
Address: 3511 & 3514 JEBAVY ROAD  
City,State,Zip: MANISTEE, MI 49660  
Facility ID: 51100070  
Facility Status: Not reported  
Latitude: 44.30099577  
Source: Not reported  
Longitude: -86.23209013  
SAM Score: Not reported  
SAM Score Date: Not reported  
Township: Not reported  
Range: Not reported  
Section: Not reported  
Quarter: Not reported  
Quarter/Quarter: Not reported  
Pollutants: Not reported  
Location Type: 201  
Work Unit: Not reported  
Project Manager: Wheeler, Brandi  
Risk Condition: Risks Present and Require Action in Short-term

BEA:

Name: 3511 & 3514 JEBAVY ROAD  
Address: 3511 & 3514 JEBAVY ROAD  
City,State,Zip: MANISTEE, MI 49660  
Secondary Address: Not reported  
BEA Number: Not reported  
District: Not reported  
Date Received: 10/23/2006  
Submitter Name: Not reported  
Petition Determination: Not reported  
Petition Disclosure: Not reported  
Category: Not reported  
Determination 20107A: Not reported  
Reviewer: Not reported  
Division Assigned: Not reported  
Location ID: 51100070

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3511 & 3514 JEBAVY ROAD (Continued)**

**S127499739**

Submittal Type: Baseline Environmental Assessment  
Submittal Number: B200600488CA  
Approval Status: RRD Received  
Workflow Status: Submitted  
Date Submitted: 10/23/2006  
Date Completed: Not reported  
Township: Manistee  
Work Unit: Cadillac  
Comments: Not reported  
Organization: Little River Band of Ottawa Indians  
Contact: Not reported  
Contact Type: Not reported  
Organization Street Address: Not reported  
Organization City: Not reported  
Organization State: Not reported  
Organization Zip Code: Not reported  
Organization County: Not reported  
Contact Street Address: Not reported  
Contact City: Not reported  
Contact Zip Code: Not reported  
Contact State: Not reported

**13**  
**North**  
**1/2-1**  
**0.859 mi.**  
**4533 ft.**

**3642 ORCHARD HIGHWAY, MANISTEE COUNTY**  
**3642 ORCHARD HIGHWAY**  
**MANISTEE, MI 49660**

**INVENTORY**  
**PART 201**  
**BEA**

**S114035690**  
**N/A**

**Relative:**  
**Higher**  
**Actual:**  
**721 ft.**

**INVENTORY:**

Name: 3642 ORCHARD HIGHWAY, MANISTEE COUNTY  
Address: 3642 ORCHARD HIGHWAY  
City,State,Zip: MANISTEE, MI 49660  
Township: Manistee  
District: Cadillac  
Data Source: Risks Present and Require Action in Short-term  
Lust Name: Not reported  
Regulatory Program: 201  
Release Status: Not reported  
Project Manager: Wheeler, Brandi  
Latitude: 44.29885653  
Longitude: -86.24506799

**PART 201:**

Name: 3642 ORCHARD HIGHWAY, MANISTEE COUNTY  
Address: 3642 ORCHARD HIGHWAY  
City,State,Zip: MANISTEE, MI 49660  
Facility ID: 51100071  
Facility Status: Not reported  
Latitude: 44.29885653  
Source: Not reported  
Longitude: -86.24506799  
SAM Score: Not reported  
SAM Score Date: Not reported  
Township: Not reported  
Range: Not reported  
Section: Not reported  
Quarter: Not reported

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**3642 ORCHARD HIGHWAY, MANISTEE COUNTY (Continued)**

**S114035690**

Quarter/Quarter: Not reported  
Pollutants: Not reported  
Location Type: 201  
Work Unit: Not reported  
Project Manager: Wheeler, Brandi  
Risk Condition: Risks Present and Require Action in Short-term

**BEA:**

Name: 3642 ORCHARD HIGHWAY, MANISTEE COUNTY  
Address: 3642 ORCHARD HIGHWAY  
City,State,Zip: MANISTEE, MI 49660  
Secondary Address: Not reported  
BEA Number: Not reported  
District: Not reported  
Date Received: 10/23/2006  
Submitter Name: Not reported  
Petition Determination: Not reported  
Petition Disclosure: Not reported  
Category: Not reported  
Determination 20107A: Not reported  
Reviewer: Not reported  
Division Assigned: Not reported  
Location ID: 51100071  
Submittal Type: Baseline Environmental Assessment  
Submittal Number: B200600486CA  
Approval Status: RRD Received  
Workflow Status: Submitted  
Date Submitted: 10/23/2006  
Date Completed: Not reported  
Township: Manistee  
Work Unit: Cadillac  
Comments: Not reported  
Organization: Little River Band of Ottawa Indians  
Contact: Not reported  
Contact Type: Not reported  
Organization Street Address: Not reported  
Organization City: Not reported  
Organization State: Not reported  
Organization Zip Code: Not reported  
Organization County: Not reported  
Contact Street Address: Not reported  
Contact City: Not reported  
Contact Zip Code: Not reported  
Contact State: Not reported

**14**  
**SW**  
**1/2-1**  
**0.954 mi.**  
**5039 ft.**

**MANISTEE COUNTY BLACKER AIRPORT**  
**2323 AIRPORT ROAD, BLACKER AIRPORT EXPANSIOPARCELS 24,25,26**  
**MANISTEE, MI 49660**

**INVENTORY S128266883**  
**PART 201 N/A**  
**BEA**

**Relative:**  
**Lower**

**INVENTORY:**

**Actual:**  
**614 ft.**

Name: MANISTEE COUNTY BLACKER AIRPORT  
Address: 2323 AIRPORT ROAD, BLACKER AIRPORT EXPANSIOPARCELS 24,25,26  
City,State,Zip: MANISTEE, MI 49660  
Township: Manistee  
District: Cadillac

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANISTEE COUNTY BLACKER AIRPORT (Continued)**

**S128266883**

Data Source:	Risks Present and Require Action in Long-term
Lust Name:	Not reported
Regulatory Program:	201
Release Status:	Not reported
Project Manager:	Wheeler, Brandi
Latitude:	44.275376
Longitude:	-86.25617523

**PART 201:**

Name:	MANISTEE COUNTY BLACKER AIRPORT
Address:	2323 AIRPORT ROAD, BLACKER AIRPORT EXPANSIOPARCELS 24,25,26
City,State,Zip:	MANISTEE, MI 49660
Facility ID:	51000173
Facility Status:	Inactive - no actions taken to address contamination
Latitude:	44.275376
Source:	Scrap & Waste Materials
Longitude:	-86.25617523
SAM Score:	Not reported
SAM Score Date:	2006-05-04
Township:	22N
Range:	16W
Section:	34
Quarter:	NE
Quarter/Quarter:	SW
Pollutants:	Acenaphthene; Phenanthrene
Location Type:	201
Work Unit:	Not reported
Project Manager:	Wheeler, Brandi
Risk Condition:	Risks Present and Require Action in Long-term

**BEA:**

Name:	MANISTEE COUNTY BLACKER AIRPORT
Address:	2323 AIRPORT ROAD, BLACKER AIRPORT EXPANSIOPARCELS 24,25,26
City,State,Zip:	MANISTEE, MI 49660
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	06/04/1998
Submitter Name:	Not reported
Petition Determination:	Not reported
Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	51000173
Submittal Type:	BEA
Submittal Number:	P199800106CA
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	01/31/2004
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Cadillac
Comments:	Not reported
Organization:	Michael Moran

Map ID  
Direction  
Distance  
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number  
EPA ID Number

**MANISTEE COUNTY BLACKER AIRPORT (Continued)**

**S128266883**

Contact:	Not reported
Contact Type:	Not reported
Organization Street Address:	Not reported
Organization City:	Not reported
Organization State:	Not reported
Organization Zip Code:	Not reported
Organization County:	Not reported
Contact Street Address:	Not reported
Contact City:	Not reported
Contact Zip Code:	Not reported
Contact State:	Not reported

Count: 4 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
MANISTEE	S130411301	419, 421, AND 423 RIVER STREET	419, 421, AND 423 RIVER STREET	49660	PART 201, INVENTORY
MANISTEE	S123824902		1492 US-31 HWY	49660	CDL
MANISTEE	S123825802		ORCHARD HIGHWAY HWY CHIPPEWA H	49660	CDL
MANISTEE	S132226808	3471 SOUTH US-31 HIGHWAY	3471 SOUTH US-31 HIGHWAY	49660	INVENTORY, PART 201, BEA

# 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**

### ***Lists of Federal NPL (Superfund) sites***

#### **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: 09/25/2024	Source: EPA
Date Data Arrived at EDR: 10/01/2024	Telephone: N/A
Date Made Active in Reports: 10/23/2024	Last EDR Contact: 11/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/06/2025
	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: 09/25/2024	Source: EPA
Date Data Arrived at EDR: 10/01/2024	Telephone: N/A
Date Made Active in Reports: 10/23/2024	Last EDR Contact: 11/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/06/2025
	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.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Source: EPA  
Telephone: 202-564-4267  
Last EDR Contact: 08/15/2011  
Next Scheduled EDR Contact: 11/28/2011  
Data Release Frequency: No Update Planned

### ***Lists of Federal Delisted NPL sites***

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: 09/25/2024  
Date Data Arrived at EDR: 10/01/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 22

Source: EPA  
Telephone: N/A  
Last EDR Contact: 11/01/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Quarterly

### ***Lists of Federal sites subject to CERCLA removals and CERCLA orders***

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: 06/07/2024  
Date Data Arrived at EDR: 06/25/2024  
Date Made Active in Reports: 09/19/2024  
Number of Days to Update: 86

Source: Environmental Protection Agency  
Telephone: 703-603-8704  
Last EDR Contact: 09/24/2024  
Next Scheduled EDR Contact: 01/09/2025  
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: 09/25/2024  
Date Data Arrived at EDR: 10/01/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 22

Source: EPA  
Telephone: 800-424-9346  
Last EDR Contact: 11/01/2024  
Next Scheduled EDR Contact: 01/20/2025  
Data Release Frequency: Quarterly

### ***Lists of Federal CERCLA sites with NFRAP***

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: 09/25/2024	Source: EPA
Date Data Arrived at EDR: 10/01/2024	Telephone: 800-424-9346
Date Made Active in Reports: 10/23/2024	Last EDR Contact: 11/01/2024
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/20/2025
	Data Release Frequency: Quarterly

### ***Lists of Federal RCRA facilities undergoing Corrective Action***

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 06/03/2024	Source: EPA
Date Data Arrived at EDR: 06/07/2024	Telephone: 800-424-9346
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 09/17/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/30/2024
	Data Release Frequency: Quarterly

### ***Lists of Federal RCRA TSD facilities***

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: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: 312-886-6186
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 09/17/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/30/2024
	Data Release Frequency: Quarterly

### ***Lists of Federal RCRA generators***

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: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: 312-886-6186
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 09/17/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/30/2024
	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: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: 312-886-6186
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 09/17/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/30/2024
	Data Release Frequency: Quarterly

### RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly 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). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 06/03/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/07/2024	Telephone: 312-886-6186
Date Made Active in Reports: 06/20/2024	Last EDR Contact: 09/17/2024
Number of Days to Update: 13	Next Scheduled EDR Contact: 12/30/2024
	Data Release Frequency: Quarterly

### ***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: 07/15/2024	Source: Department of the Navy
Date Data Arrived at EDR: 07/17/2024	Telephone: 843-820-7326
Date Made Active in Reports: 10/09/2024	Last EDR Contact: 10/30/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 02/17/2025
	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: 07/24/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/08/2024	Telephone: 703-603-0695
Date Made Active in Reports: 08/15/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/02/2024
	Data Release Frequency: Varies

#### US INST CONTROLS: Institutional Controls Sites List

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: 07/24/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/08/2024	Telephone: 703-603-0695
Date Made Active in Reports: 08/15/2024	Last EDR Contact: 08/08/2024
Number of Days to Update: 7	Next Scheduled EDR Contact: 12/02/2024
	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: 06/11/2024

Date Data Arrived at EDR: 06/17/2024

Date Made Active in Reports: 09/04/2024

Number of Days to Update: 79

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/17/2024

Next Scheduled EDR Contact: 12/30/2024

Data Release Frequency: Quarterly

## ***Lists of state- and tribal hazardous waste facilities***

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: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5103

Last EDR Contact: 10/09/2024

Next Scheduled EDR Contact: 01/27/2025

Data Release Frequency: No Update Planned

## ***Lists of state and tribal landfills and solid waste disposal facilities***

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: 06/17/2024

Date Data Arrived at EDR: 06/17/2024

Date Made Active in Reports: 09/11/2024

Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4035

Last EDR Contact: 09/17/2024

Next Scheduled EDR Contact: 12/30/2024

Data Release Frequency: Semi-Annually

## ***Lists of state and tribal leaking storage tanks***

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: 08/01/2024

Date Data Arrived at EDR: 08/07/2024

Date Made Active in Reports: 10/23/2024

Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9837

Last EDR Contact: 10/30/2024

Next Scheduled EDR Contact: 02/17/2025

Data Release Frequency: Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/07/2024

Date Data Arrived at EDR: 05/30/2024

Date Made Active in Reports: 08/28/2024

Number of Days to Update: 90

Source: EPA Region 10

Telephone: 206-553-2857

Last EDR Contact: 10/16/2024

Next Scheduled EDR Contact: 01/27/2025

Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 4  
Telephone: 404-562-8677  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

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: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 8  
Telephone: 303-312-6271  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 6  
Telephone: 214-665-6597  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

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: 04/11/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA, Region 5  
Telephone: 312-886-7439  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

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

Date of Government Version: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 7  
Telephone: 913-551-7003  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 05/07/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: Environmental Protection Agency  
Telephone: 415-972-3372  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

***Lists of state and tribal registered storage tanks***

## 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: 03/15/2024  
Date Data Arrived at EDR: 03/19/2024  
Date Made Active in Reports: 06/17/2024  
Number of Days to Update: 90

Source: FEMA  
Telephone: 202-646-5797  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: Varies

### UST 2: Underground Storage Tank Listing

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

Date of Government Version: 01/08/2024  
Date Data Arrived at EDR: 01/18/2024  
Date Made Active in Reports: 04/09/2024  
Number of Days to Update: 82

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-373-1820  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
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: 07/24/2024  
Date Data Arrived at EDR: 08/06/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 78

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-373-1820  
Last EDR Contact: 11/06/2024  
Next Scheduled EDR Contact: 02/17/2025  
Data Release Frequency: Annually

### AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 08/01/2024  
Date Data Arrived at EDR: 08/07/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 77

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-373-1820  
Last EDR Contact: 10/30/2024  
Next Scheduled EDR Contact: 02/17/2025  
Data Release Frequency: No Update Planned

### 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: 05/14/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA, Region 1  
Telephone: 617-918-1313  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

### 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: 04/11/2024  
Date Data Arrived at EDR: 05/30/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 90

Source: EPA Region 5  
Telephone: 312-886-6136  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### 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: 05/14/2024	Source: EPA Region 6
Date Data Arrived at EDR: 05/30/2024	Telephone: 214-665-7591
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/27/2025
	Data Release Frequency: Varies

### 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: 05/14/2024	Source: EPA Region 4
Date Data Arrived at EDR: 05/30/2024	Telephone: 404-562-9424
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 07/29/2024
	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: 05/14/2024	Source: EPA Region 9
Date Data Arrived at EDR: 05/30/2024	Telephone: 415-972-3368
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/27/2025
	Data Release Frequency: Varies

### INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/14/2024	Source: EPA Region 8
Date Data Arrived at EDR: 05/30/2024	Telephone: 303-312-6137
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/27/2025
	Data Release Frequency: Varies

### 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: 05/14/2024	Source: EPA Region 7
Date Data Arrived at EDR: 05/30/2024	Telephone: 913-551-7003
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/27/2025
	Data Release Frequency: Varies

### INDIAN UST R10: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/14/2024	Source: EPA Region 10
Date Data Arrived at EDR: 05/30/2024	Telephone: 206-553-2857
Date Made Active in Reports: 08/28/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 90	Next Scheduled EDR Contact: 01/27/2025
	Data Release Frequency: Varies

# GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

## ***State and tribal institutional control / engineering control registries***

### **AUL: Engineering and Institutional Controls**

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

Date of Government Version: 08/20/2024

Date Data Arrived at EDR: 08/20/2024

Date Made Active in Reports: 08/21/2024

Number of Days to Update: 1

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4828

Last EDR Contact: 08/13/2024

Next Scheduled EDR Contact: 12/02/2024

Data Release Frequency: Quarterly

## ***Lists of 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

Date Data Arrived at EDR: 09/29/2015

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1

Telephone: 617-918-1102

Last EDR Contact: 09/10/2024

Next Scheduled EDR Contact: 12/30/2024

Data Release Frequency: Varies

### **INDIAN VCP R7: Voluntary Cleanup Priority Listing**

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

Date of Government Version: 03/20/2008

Date Data Arrived at EDR: 04/22/2008

Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7

Telephone: 913-551-7365

Last EDR Contact: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

## ***Lists of state and tribal brownfield 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: 04/16/2024

Date Data Arrived at EDR: 07/16/2024

Date Made Active in Reports: 10/04/2024

Number of Days to Update: 80

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4805

Last EDR Contact: 10/17/2024

Next Scheduled EDR Contact: 01/27/2025

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: 07/15/2024

Date Data Arrived at EDR: 07/19/2024

Date Made Active in Reports: 07/24/2024

Number of Days to Update: 5

Source: Economic Development Corporation

Telephone: 888-522-0103

Last EDR Contact: 10/15/2024

Next Scheduled EDR Contact: 01/27/2025

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: 06/10/2024  
Date Data Arrived at EDR: 06/11/2024  
Date Made Active in Reports: 09/04/2024  
Number of Days to Update: 85

Source: Environmental Protection Agency  
Telephone: 202-566-2777  
Last EDR Contact: 09/11/2024  
Next Scheduled EDR Contact: 12/23/2024  
Data Release Frequency: Semi-Annually

### **Local Lists of Landfill / Solid Waste Disposal Sites**

#### **SWRCY: Recycling Facilities**

A listing of recycling center locations.

Date of Government Version: 06/14/2024  
Date Data Arrived at EDR: 06/14/2024  
Date Made Active in Reports: 09/06/2024  
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-241-5719  
Last EDR Contact: 09/10/2024  
Next Scheduled EDR Contact: 12/30/2024  
Data Release Frequency: Varies

#### **HIST LF: Inactive Solid Waste Facilities**

The database contains historical information and is no longer updated.

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

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-335-4034  
Last EDR Contact: 02/28/2003  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: No Update Planned

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency  
Telephone: 703-308-8245  
Last EDR Contact: 10/17/2024  
Next Scheduled EDR Contact: 02/03/2025  
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: 10/09/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 10/10/2024  
Next Scheduled EDR Contact: 02/03/2025  
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: 05/20/2024  
Date Data Arrived at EDR: 08/19/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 51

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/19/2024  
Next Scheduled EDR Contact: 12/02/2024  
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: 07/15/2024  
Date Data Arrived at EDR: 07/16/2024  
Date Made Active in Reports: 10/07/2024  
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-284-5136  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Quarterly

### **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: 07/15/2024  
Date Data Arrived at EDR: 07/16/2024  
Date Made Active in Reports: 10/07/2024  
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-284-5103  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: No Update Planned

### **CDL: Clandestine Drug Lab Listing**

A listing of clandestine drug lab locations.

Date of Government Version: 07/17/2024  
Date Data Arrived at EDR: 07/31/2024  
Date Made Active in Reports: 08/08/2024  
Number of Days to Update: 8

Source: Department of Community Health  
Telephone: 517-373-3740  
Last EDR Contact: 10/09/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: No Update Planned

## 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: 07/15/2024  
Date Data Arrived at EDR: 07/16/2024  
Date Made Active in Reports: 10/07/2024  
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-373-9541  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: No Update Planned

### 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: 05/20/2024  
Date Data Arrived at EDR: 08/19/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 51

Source: Drug Enforcement Administration  
Telephone: 202-307-1000  
Last EDR Contact: 08/19/2024  
Next Scheduled EDR Contact: 12/02/2024  
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: 07/09/2024  
Date Data Arrived at EDR: 07/09/2024  
Date Made Active in Reports: 09/30/2024  
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-241-7603  
Last EDR Contact: 10/08/2024  
Next Scheduled EDR Contact: 01/20/2025  
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: 09/25/2024  
Date Data Arrived at EDR: 10/01/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 22

Source: Environmental Protection Agency  
Telephone: 202-564-6023  
Last EDR Contact: 11/01/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Semi-Annually

### 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: 06/14/2024  
Date Data Arrived at EDR: 06/17/2024  
Date Made Active in Reports: 06/24/2024  
Number of Days to Update: 7

Source: U.S. Department of Transportation  
Telephone: 202-366-4555  
Last EDR Contact: 09/17/2024  
Next Scheduled EDR Contact: 12/30/2024  
Data Release Frequency: Quarterly

## 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: 06/03/2024  
Date Data Arrived at EDR: 07/17/2024  
Date Made Active in Reports: 10/08/2024  
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-373-8427  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 06/03/2024  
Date Data Arrived at EDR: 06/07/2024  
Date Made Active in Reports: 06/20/2024  
Number of Days to Update: 13

Source: Environmental Protection Agency  
Telephone: 312-886-6186  
Last EDR Contact: 09/17/2024  
Next Scheduled EDR Contact: 12/30/2024  
Data Release Frequency: Quarterly

#### 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: 07/31/2024  
Date Data Arrived at EDR: 08/12/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 58

Source: U.S. Army Corps of Engineers  
Telephone: 202-528-4285  
Last EDR Contact: 08/12/2024  
Next Scheduled EDR Contact: 11/26/2024  
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: 06/07/2021  
Date Data Arrived at EDR: 07/13/2021  
Date Made Active in Reports: 03/09/2022  
Number of Days to Update: 239

Source: USGS  
Telephone: 888-275-8747  
Last EDR Contact: 10/10/2024  
Next Scheduled EDR Contact: 01/20/2025  
Data Release Frequency: Varies

#### FEDLAND: Federal and Indian Lands

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

Date of Government Version: 04/02/2018  
Date Data Arrived at EDR: 04/11/2018  
Date Made Active in Reports: 11/06/2019  
Number of Days to Update: 574

Source: U.S. Geological Survey  
Telephone: 888-275-8747  
Last EDR Contact: 10/03/2024  
Next Scheduled EDR Contact: 01/13/2025  
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: 07/30/2021  
Date Data Arrived at EDR: 02/03/2023  
Date Made Active in Reports: 02/10/2023  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 615-532-8599  
Last EDR Contact: 11/04/2024  
Next Scheduled EDR Contact: 02/17/2025  
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: 06/10/2024  
Date Data Arrived at EDR: 06/17/2024  
Date Made Active in Reports: 09/04/2024  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-566-1917  
Last EDR Contact: 09/17/2024  
Next Scheduled EDR Contact: 12/30/2024  
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: 10/24/2024  
Next Scheduled EDR Contact: 02/10/2025  
Data Release Frequency: No Update Planned

### 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: 09/30/2017  
Date Data Arrived at EDR: 05/08/2018  
Date Made Active in Reports: 07/20/2018  
Number of Days to Update: 73

Source: Environmental Protection Agency  
Telephone: 703-308-4044  
Last EDR Contact: 10/31/2024  
Next Scheduled EDR Contact: 02/10/2025  
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: 12/31/2020  
Date Data Arrived at EDR: 06/14/2022  
Date Made Active in Reports: 03/24/2023  
Number of Days to Update: 283

Source: EPA  
Telephone: 202-260-5521  
Last EDR Contact: 10/03/2024  
Next Scheduled EDR Contact: 12/23/2024  
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: 12/31/2022  
Date Data Arrived at EDR: 11/13/2023  
Date Made Active in Reports: 02/07/2024  
Number of Days to Update: 86

Source: EPA  
Telephone: 202-566-0250  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/06/2025  
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: 07/11/2024  
Date Data Arrived at EDR: 07/11/2024  
Date Made Active in Reports: 07/12/2024  
Number of Days to Update: 1

Source: EPA  
Telephone: 202-564-4203  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 08/27/2024  
Date Data Arrived at EDR: 09/03/2024  
Date Made Active in Reports: 09/19/2024  
Number of Days to Update: 16

Source: EPA  
Telephone: 703-416-0223  
Last EDR Contact: 11/01/2024  
Next Scheduled EDR Contact: 12/09/2024  
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: 07/12/2024  
Date Data Arrived at EDR: 07/17/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 84

Source: Environmental Protection Agency  
Telephone: 202-564-8600  
Last EDR Contact: 10/09/2024  
Next Scheduled EDR Contact: 01/27/2025  
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: 09/19/2023	Source: EPA
Date Data Arrived at EDR: 10/03/2023	Telephone: 202-564-6023
Date Made Active in Reports: 10/19/2023	Last EDR Contact: 10/01/2024
Number of Days to Update: 16	Next Scheduled EDR Contact: 02/10/2025
	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: 05/23/2024	Source: EPA
Date Data Arrived at EDR: 07/02/2024	Telephone: 202-566-0500
Date Made Active in Reports: 09/26/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/13/2025
	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: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 09/25/2024
Number of Days to Update: 79	Next Scheduled EDR Contact: 01/13/2025
	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: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

### 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: 08/18/2017
Number of Days to Update: 25	Next Scheduled EDR Contact: 12/04/2017
	Data Release Frequency: No Update Planned

### 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: 06/06/2024	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 06/07/2024	Telephone: 301-415-0717
Date Made Active in Reports: 09/04/2024	Last EDR Contact: 10/09/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 01/27/2025
	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: 12/31/2022	Source: Department of Energy
Date Data Arrived at EDR: 11/27/2023	Telephone: 202-586-8719
Date Made Active in Reports: 02/22/2024	Last EDR Contact: 10/16/2024
Number of Days to Update: 87	Next Scheduled EDR Contact: 12/09/2024
	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: 01/12/2017	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/05/2019	Telephone: N/A
Date Made Active in Reports: 11/11/2019	Last EDR Contact: 08/22/2024
Number of Days to Update: 251	Next Scheduled EDR Contact: 12/09/2024
	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: 09/13/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/06/2019	Telephone: 202-566-0517
Date Made Active in Reports: 02/10/2020	Last EDR Contact: 10/31/2024
Number of Days to Update: 96	Next Scheduled EDR Contact: 02/10/2025
	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: 07/01/2019	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2019	Telephone: 202-343-9775
Date Made Active in Reports: 09/23/2019	Last EDR Contact: 09/18/2024
Number of Days to Update: 84	Next Scheduled EDR Contact: 01/06/2025
	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: 01/02/2020  
Date Data Arrived at EDR: 01/28/2020  
Date Made Active in Reports: 04/17/2020  
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety  
Telephone: 202-366-4595  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 02/03/2025  
Data Release Frequency: Quarterly

### 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: 06/30/2024  
Date Data Arrived at EDR: 07/08/2024  
Date Made Active in Reports: 09/26/2024  
Number of Days to Update: 80

Source: Department of Justice, Consent Decree Library  
Telephone: Varies  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/13/2025  
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: 12/31/2021  
Date Data Arrived at EDR: 03/09/2023  
Date Made Active in Reports: 03/20/2023  
Number of Days to Update: 11

Source: EPA/NTIS  
Telephone: 800-424-9346  
Last EDR Contact: 09/17/2024  
Next Scheduled EDR Contact: 12/30/2024  
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: 12/31/2014  
Date Data Arrived at EDR: 07/14/2015  
Date Made Active in Reports: 01/10/2017  
Number of Days to Update: 546

Source: USGS  
Telephone: 202-208-3710  
Last EDR Contact: 10/01/2024  
Next Scheduled EDR Contact: 01/13/2025  
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: 03/03/2023  
Date Data Arrived at EDR: 03/03/2023  
Date Made Active in Reports: 06/09/2023  
Number of Days to Update: 98

Source: Department of Energy  
Telephone: 202-586-3559  
Last EDR Contact: 10/24/2024  
Next Scheduled EDR Contact: 02/10/2025  
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: 05/08/2024  
Date Data Arrived at EDR: 08/14/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 14

Source: Department of Energy  
Telephone: 505-845-0011  
Last EDR Contact: 08/08/2024  
Next Scheduled EDR Contact: 11/26/2024  
Data Release Frequency: Varies

### LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 09/25/2024  
Date Data Arrived at EDR: 10/01/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 22

Source: Environmental Protection Agency  
Telephone: 703-603-8787  
Last EDR Contact: 11/01/2024  
Next Scheduled EDR Contact: 01/06/2025  
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: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
Data Release Frequency: Annually

### US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016  
Date Data Arrived at EDR: 10/26/2016  
Date Made Active in Reports: 02/03/2017  
Number of Days to Update: 100

Source: EPA  
Telephone: 202-564-2496  
Last EDR Contact: 09/26/2017  
Next Scheduled EDR Contact: 01/08/2018  
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: 08/06/2024  
Date Data Arrived at EDR: 08/14/2024  
Date Made Active in Reports: 08/15/2024  
Number of Days to Update: 1

Source: Department of Labor, Mine Safety and Health Administration  
Telephone: 303-231-5959  
Last EDR Contact: 08/14/2024  
Next Scheduled EDR Contact: 12/02/2024  
Data Release Frequency: Semi-Annually

### MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 10/01/2024  
Date Data Arrived at EDR: 10/02/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 7

Source: DOL, Mine Safety & Health Admin  
Telephone: 202-693-9424  
Last EDR Contact: 10/02/2024  
Next Scheduled EDR Contact: 12/02/2024  
Data Release Frequency: Quarterly

### 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.

Date of Government Version: 05/02/2024  
Date Data Arrived at EDR: 08/20/2024  
Date Made Active in Reports: 10/09/2024  
Number of Days to Update: 50

Source: USGS  
Telephone: 703-648-7709  
Last EDR Contact: 08/20/2024  
Next Scheduled EDR Contact: 12/02/2024  
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: 08/22/2024  
Next Scheduled EDR Contact: 12/02/2024  
Data Release Frequency: Varies

### 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: 06/13/2024  
Date Data Arrived at EDR: 06/14/2024  
Date Made Active in Reports: 09/04/2024  
Number of Days to Update: 82

Source: Department of Interior  
Telephone: 202-208-2609  
Last EDR Contact: 09/10/2024  
Next Scheduled EDR Contact: 12/16/2024  
Data Release Frequency: Quarterly

### MINES MRDS: Mineral Resources Data System Mineral Resources Data System

Date of Government Version: 08/23/2022  
Date Data Arrived at EDR: 11/22/2022  
Date Made Active in Reports: 02/28/2023  
Number of Days to Update: 98

Source: USGS  
Telephone: 703-648-6533  
Last EDR Contact: 08/22/2024  
Next Scheduled EDR Contact: 12/02/2024  
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: 08/13/2024  
Date Data Arrived at EDR: 08/20/2024  
Date Made Active in Reports: 08/28/2024  
Number of Days to Update: 8

Source: EPA  
Telephone: (312) 353-2000  
Last EDR Contact: 08/20/2024  
Next Scheduled EDR Contact: 12/09/2024  
Data Release Frequency: Quarterly

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 06/23/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 06/28/2024	Telephone: 202-564-2280
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/01/2024
Number of Days to Update: 14	Next Scheduled EDR Contact: 01/13/2025
	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: 05/06/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 202-564-0527
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/13/2024
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/02/2024
	Data Release Frequency: Varies

### UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 09/06/2023	Source: Department of Defense
Date Data Arrived at EDR: 09/13/2023	Telephone: 703-704-1564
Date Made Active in Reports: 12/11/2023	Last EDR Contact: 10/03/2024
Number of Days to Update: 89	Next Scheduled EDR Contact: 01/20/2025
	Data Release Frequency: Varies

### 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: 08/13/2024	Source: EPA
Date Data Arrived at EDR: 08/13/2024	Telephone: 800-385-6164
Date Made Active in Reports: 10/09/2024	Last EDR Contact: 08/13/2024
Number of Days to Update: 57	Next Scheduled EDR Contact: 11/26/2024
	Data Release Frequency: Quarterly

### PFAS NPL: Superfund Sites with PFAS Detections Information

EPA's Office of Land and Emergency Management and EPA Regional Offices maintain data describing what is known about site investigations, contamination, and remedial actions under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) where PFAS is present in the environment.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 703-603-8895
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS FEDERAL SITES: Federal Sites PFAS Information

Several federal entities, such as the federal Superfund program, Department of Defense, National Aeronautics and Space Administration, Department of Transportation, and Department of Energy provided information for sites with known or suspected detections at federal facilities.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### PFAS TSCA: PFAS Manufacture and Imports Information

EPA issued the Chemical Data Reporting (CDR) Rule under the Toxic Substances Control Act (TSCA) and requires chemical manufacturers and facilities that manufacture or import chemical substances to report data to EPA. EPA publishes non-confidential business information (non-CBI) and includes descriptive information about each site, corporate parent, production volume, other manufacturing information, and processing and use information.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS TRIS: List of PFAS Added to the TRI

Section 7321 of the National Defense Authorization Act for Fiscal Year 2020 (NDAA) immediately added certain per- and polyfluoroalkyl substances (PFAS) to the list of chemicals covered by the Toxics Release Inventory (TRI) under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA) and provided a framework for additional PFAS to be added to TRI on an annual basis.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-566-0250
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS RCRA MANIFEST: PFAS Transfers Identified In the RCRA Database Listing

To work around the lack of PFAS waste codes in the RCRA database, EPA developed the PFAS Transfers dataset by mining e-Manifest records containing at least one of these common PFAS keywords: PFAS, PFOA, PFOS, PERFL, AFFF, GENX, GEN-X (plus the VT waste codes). These keywords were searched for in the following text fields: Manifest handling instructions (MANIFEST\_HANDLING\_INSTR), Non-hazardous waste description (NON\_HAZ\_WASTE\_DESCRIPTION), DOT printed information (DOT\_PRINTED\_INFORMATION), Waste line handling instructions (WASTE\_LINE\_HANDLING\_INSTR), Waste residue comments (WASTE\_RESIDUE\_COMMENTS).

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS ATSDR: PFAS Contamination Site Location Listing

PFAS contamination site locations from the Department of Health & Human Services, Center for Disease Control & Prevention. ATSDR is involved at a number of PFAS-related sites, either directly or through assisting state and federal partners. As of now, most sites are related to drinking water contamination connected with PFAS production facilities or fire training areas where aqueous film-forming firefighting foam (AFFF) was regularly used.

Date of Government Version: 06/24/2020	Source: Department of Health & Human Services
Date Data Arrived at EDR: 03/17/2021	Telephone: 202-741-5770
Date Made Active in Reports: 11/08/2022	Last EDR Contact: 10/17/2024
Number of Days to Update: 601	Next Scheduled EDR Contact: 02/03/2025
	Data Release Frequency: Varies

### PFAS WQP: Ambient Environmental Sampling for PFAS

The Water Quality Portal (WQP) is a part of a modernized repository storing ambient sampling data for all environmental media and tissue samples. A wide range of federal, state, tribal and local governments, academic and non-governmental organizations and individuals submit project details and sampling results to this public repository. The information is commonly used for research and assessments of environmental quality.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### PFAS NPDES: Clean Water Act Discharge Monitoring Information

Any discharger of pollutants to waters of the United States from a point source must have a National Pollutant Discharge Elimination System (NPDES) permit. The process for obtaining limits involves the regulated entity (permittee) disclosing releases in a NPDES permit application and the permitting authority (typically the state but sometimes EPA) deciding whether to require monitoring or monitoring with limits. Caveats and Limitations: Less than half of states have required PFAS monitoring for at least one of their permittees and fewer states have established PFAS effluent limits for permittees. New rulemakings have been initiated that may increase the number of facilities monitoring for PFAS in the future.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS PROJECT: NORTHEASTERN UNIVERSITY PFAS PROJECT

The PFAS Contamination Site Tracker records qualitative and quantitative data from each site in a chart, specifically examining discovery, contamination levels, government response, litigation, health impacts, media coverage, and community characteristics. All data presented in the chart were extracted from government websites, such as state health departments or the Environmental Protection Agency, and news articles.

Date of Government Version: 05/19/2023	Source: Social Science Environmental Health Research Institute
Date Data Arrived at EDR: 04/05/2024	Telephone: N/A
Date Made Active in Reports: 06/06/2024	Last EDR Contact: 09/05/2024
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/16/2024
	Data Release Frequency: Varies

### PFAS ECHO: Facilities in Industries that May Be Handling PFAS Listing

Regulators and the public have expressed interest in knowing which regulated entities may be using PFAS. EPA has developed a dataset from various sources that show which industries may be handling PFAS. Approximately 120,000 facilities subject to federal environmental programs have operated or currently operate in industry sectors with processes that may involve handling and/or release of PFAS.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS ECHO FIRE TRAIN: Facilities in Industries that May Be Handling PFAS Listing

A list of fire training sites was added to the Industry Sectors dataset using a keyword search on the permitted facility's name to identify sites where fire-fighting foam may have been used in training exercises. Additionally, you may view an example spreadsheet of the subset of fire training facility data, as well as the keywords used in selecting or deselecting a facility for the subset. as well as the keywords used in selecting or deselecting a facility for the subset. These keywords were tested to maximize accuracy in selecting facilities that may use fire-fighting foam in training exercises, however, due to the lack of a required reporting field in the data systems for designating fire training sites, this methodology may not identify all fire training sites or may potentially misidentify them.

Date of Government Version: 07/01/2024	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/01/2024	Telephone: 202-272-0167
Date Made Active in Reports: 07/12/2024	Last EDR Contact: 10/02/2024
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/13/2025
	Data Release Frequency: Varies

### PFAS PT 139 AIRPORT: All Certified Part 139 Airports PFAS Information Listing

Since July 1, 2006, all certified part 139 airports are required to have fire-fighting foam onsite that meet military specifications (MIL-F-24385) (14 CFR 139.317). To date, these military specification fire-fighting foams are fluorinated and have been historically used for training and extinguishing. The 2018 FAA Reauthorization Act has a provision stating that no later than October 2021, FAA shall not require the use of fluorinated AFFF. This provision does not prohibit the use of fluorinated AFFF at Part 139 civilian airports; it only prohibits FAA from mandating its use. The Federal Aviation Administration's document AC 150/5210-6D - Aircraft Fire Extinguishing Agents provides guidance on Aircraft Fire Extinguishing Agents, which includes Aqueous Film Forming Foam (AFFF).

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/01/2024  
Date Data Arrived at EDR: 07/01/2024  
Date Made Active in Reports: 07/12/2024  
Number of Days to Update: 11

Source: Environmental Protection Agency  
Telephone: 202-272-0167  
Last EDR Contact: 10/02/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: Varies

### AQUEOUS FOAM NRC: Aqueous Foam Related Incidents Listing

The National Response Center (NRC) serves as an emergency call center that fields initial reports for pollution and railroad incidents and forwards that information to appropriate federal/state agencies for response. The spreadsheets posted to the NRC website contain initial incident data that has not been validated or investigated by a federal/state response agency. Response center calls from 1990 to the most recent complete calendar year where there was indication of Aqueous Film Forming Foam (AFFF) usage are included in this dataset. NRC calls may reference AFFF usage in the ?Material Involved? or ?Incident Description? fields.

Date of Government Version: 07/01/2024  
Date Data Arrived at EDR: 07/01/2024  
Date Made Active in Reports: 07/12/2024  
Number of Days to Update: 11

Source: Environmental Protection Agency  
Telephone: 202-267-2675  
Last EDR Contact: 10/02/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: Varies

### PCS ENF: Enforcement data

No description is available for this data

Date of Government Version: 12/31/2014  
Date Data Arrived at EDR: 02/05/2015  
Date Made Active in Reports: 03/06/2015  
Number of Days to Update: 29

Source: EPA  
Telephone: 202-564-2497  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: Varies

### PCS: Permit Compliance System

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

Date of Government Version: 12/16/2016  
Date Data Arrived at EDR: 01/06/2017  
Date Made Active in Reports: 03/10/2017  
Number of Days to Update: 63

Source: EPA, Office of Water  
Telephone: 202-564-2496  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: No Update Planned

### BIOSOLIDS: ICIS-NPDES Biosolids Facility Data

The data reflects compliance information about facilities in the biosolids program.

Date of Government Version: 10/13/2024  
Date Data Arrived at EDR: 10/16/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 7

Source: Environmental Protection Agency  
Telephone: 202-564-4700  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Varies

### UST FINDER RELEASE: UST Finder Releases Database

US EPA's UST Finder data is a national composite of leaking underground storage tanks. This data contains information about, and locations of, leaking underground storage tanks. Data was collected from state sources and standardized into a national profile by EPA's Office of Underground Storage Tanks, Office of Research and Development, and the Association of State and Territorial Solid Waste Management Officials.

Date of Government Version: 06/08/2023  
Date Data Arrived at EDR: 10/31/2023  
Date Made Active in Reports: 01/18/2024  
Number of Days to Update: 79

Source: Environmental Protection Agency  
Telephone: 202-564-0394  
Last EDR Contact: 08/08/2024  
Next Scheduled EDR Contact: 11/18/2024  
Data Release Frequency: Semi-Annually

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### UST FINDER: UST Finder Database

EPA developed UST Finder, a web map application containing a comprehensive, state-sourced national map of underground storage tank (UST) and leaking UST (LUST) data. It provides the attributes and locations of active and closed USTs, UST facilities, and LUST sites from states and from Tribal lands and US territories. UST Finder contains information about proximity of UST facilities and LUST sites to: surface and groundwater public drinking water protection areas; estimated number of private domestic wells and number of people living nearby; and flooding and wildfires.

Date of Government Version: 06/08/2023  
Date Data Arrived at EDR: 10/04/2023  
Date Made Active in Reports: 01/18/2024  
Number of Days to Update: 106

Source: Environmental Protection Agency  
Telephone: 202-564-0394  
Last EDR Contact: 08/08/2024  
Next Scheduled EDR Contact: 11/18/2024  
Data Release Frequency: Varies

### E MANIFEST: Hazardous Waste Electronic Manifest System

EPA established a national system for tracking hazardous waste shipments electronically. This system, known as e-Manifest, will modernize the nation's cradle-to-grave hazardous waste tracking process while saving valuable time, resources, and dollars for industry and states.

Date of Government Version: 07/24/2023  
Date Data Arrived at EDR: 04/18/2024  
Date Made Active in Reports: 06/06/2024  
Number of Days to Update: 49

Source: Environmental Protection Agency  
Telephone: 833-501-6826  
Last EDR Contact: 09/17/2024  
Next Scheduled EDR Contact: 12/30/2024  
Data Release Frequency: Varies

### PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950s. Their stability and unique chemical properties produce waterproof, stain resistant, and nonstick qualities in products. They are found in some firefighting foams and a wide range of consumer products such as carpet treatments, non-stick cookware, water-resistant fabrics, food packaging materials, and personal care products.

Date of Government Version: 02/15/2024  
Date Data Arrived at EDR: 08/06/2024  
Date Made Active in Reports: 10/24/2024  
Number of Days to Update: 79

Source: Department of Environment, Great Lakes & Energy  
Telephone: 517-284-9278  
Last EDR Contact: 11/06/2024  
Next Scheduled EDR Contact: 02/17/2025  
Data Release Frequency: Varies

### AQUEOUS FOAM: Aqueous Film Forming Foam Listing

Sites with Aqueous Film Forming Foam contamination, as reported to the Department of Environment, Great Lakes & Energy. AFFF is a fire suppressant used to extinguish flammable liquid fires such as fuel fires.

Date of Government Version: 06/07/2024  
Date Data Arrived at EDR: 06/24/2024  
Date Made Active in Reports: 08/19/2024  
Number of Days to Update: 56

Source: Department of Environment, Great Lakes & Energy  
Telephone: 517-284-9278  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Varies

### AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 06/11/2024  
Date Data Arrived at EDR: 06/12/2024  
Date Made Active in Reports: 09/06/2024  
Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-373-7074  
Last EDR Contact: 09/05/2024  
Next Scheduled EDR Contact: 12/23/2024  
Data Release Frequency: Annually

### ASBESTOS: Asbestos Notification Listing

Asbestos

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 09/30/2024  
Date Data Arrived at EDR: 10/16/2024  
Date Made Active in Reports: 10/23/2024  
Number of Days to Update: 7

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-284-7699  
Last EDR Contact: 10/07/2024  
Next Scheduled EDR Contact: 01/13/2025  
Data Release Frequency: Quarterly

### 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.

Date of Government Version: 08/15/2024  
Date Data Arrived at EDR: 08/16/2024  
Date Made Active in Reports: 11/04/2024  
Number of Days to Update: 80

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-373-9541  
Last EDR Contact: 10/30/2024  
Next Scheduled EDR Contact: 02/17/2025  
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: 04/01/2021  
Date Data Arrived at EDR: 04/06/2021  
Date Made Active in Reports: 06/24/2021  
Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 586-753-3754  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Varies

### DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 04/25/2024  
Date Data Arrived at EDR: 07/09/2024  
Date Made Active in Reports: 10/02/2024  
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-335-4586  
Last EDR Contact: 10/10/2024  
Next Scheduled EDR Contact: 01/20/2025  
Data Release Frequency: Quarterly

### FIN ASSURANCE 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 03/02/2024  
Date Data Arrived at EDR: 04/04/2024  
Date Made Active in Reports: 07/02/2024  
Number of Days to Update: 89

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-335-6610  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Semi-Annually

### FIN ASSURANCE 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 06/20/2024  
Date Data Arrived at EDR: 06/26/2024  
Date Made Active in Reports: 09/16/2024  
Number of Days to Update: 82

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-335-4034  
Last EDR Contact: 09/10/2024  
Next Scheduled EDR Contact: 12/30/2024  
Data Release Frequency: Varies

### FIN ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 06/24/2024  
Date Data Arrived at EDR: 07/02/2024  
Date Made Active in Reports: 07/15/2024  
Number of Days to Update: 13

Source: Department of Licensing & Regulatory Affairs  
Telephone: 517-335-7279  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### LEAD: Lead Information Registry Listing

All properties in this registry received a lead-based paint inspection or a lead risk assessment, and a lead abatement service. A lead-based paint inspection identifies any lead present on the property. The lead risk assessment determines if any of the lead found is a hazard. Lead abatement services address or remove the lead hazards.

Date of Government Version: 02/28/2024  
Date Data Arrived at EDR: 02/29/2024  
Date Made Active in Reports: 05/21/2024  
Number of Days to Update: 82

Source: Department of Health & Human Services  
Telephone: 517-335-9390  
Last EDR Contact: 08/20/2024  
Next Scheduled EDR Contact: 12/09/2024  
Data Release Frequency: Varies

### LEAD CERT: Lead Safe Housing Registry

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

Date of Government Version: 03/25/2020  
Date Data Arrived at EDR: 03/25/2020  
Date Made Active in Reports: 06/15/2020  
Number of Days to Update: 82

Source: Department of Community Health  
Telephone: 517-335-9699  
Last EDR Contact: 08/20/2024  
Next Scheduled EDR Contact: 12/09/2024  
Data Release Frequency: Quarterly

### MI MANIFEST: Hazardous Waste Manifest Data

A generator who transports, or offers for transportation, hazardous waste for off-site treatment, storage or disposal must prepare a hazardous waste manifest to accompany such shipment.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 06/23/2023  
Date Made Active in Reports: 12/12/2023  
Number of Days to Update: 172

Source: Department of Environment, Great Lakes & Energy  
Telephone: 517-284-6838  
Last EDR Contact: 10/16/2024  
Next Scheduled EDR Contact: 02/03/2025  
Data Release Frequency: Annually

### 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: 06/25/2024  
Date Data Arrived at EDR: 06/26/2024  
Date Made Active in Reports: 07/10/2024  
Number of Days to Update: 14

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-241-1300  
Last EDR Contact: 09/18/2024  
Next Scheduled EDR Contact: 01/06/2025  
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: 07/16/2024  
Date Data Arrived at EDR: 07/18/2024  
Date Made Active in Reports: 10/08/2024  
Number of Days to Update: 82

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-241-1515  
Last EDR Contact: 10/09/2024  
Next Scheduled EDR Contact: 01/27/2025  
Data Release Frequency: Quarterly

### 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: 12/08/2023  
Date Data Arrived at EDR: 12/11/2023  
Date Made Active in Reports: 03/05/2024  
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy  
Telephone: 517-284-6562  
Last EDR Contact: 08/07/2024  
Next Scheduled EDR Contact: 11/26/2024  
Data Release Frequency: Varies

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### ENVIRO: Michigan Enviro Information

MiEnviro is permitting and compliance for air quality and water resources, including National Pollutant Discharge Elimination System (NPDES), storm water, groundwater discharge, aquatic nuisance control, Part 41 construction, medical waste registrations, and land and water interface permits.

Date of Government Version: 06/28/2024

Date Data Arrived at EDR: 06/28/2024

Date Made Active in Reports: 07/03/2024

Number of Days to Update: 5

Source: Department of Environment, Great Lakes, & Energy

Telephone: 800-662-9278

Last EDR Contact: 10/01/2024

Next Scheduled EDR Contact: 01/13/2025

Data Release Frequency: Quarterly

### SSCUP: State Owned Sites Cleanup Program List

Public Act 380 of 1996 amended Part 201, Environmental Remediation, of the Natural Resources and Environmental Protection Act, PA 451 of 1994, by adding Section 20108c and creating the State Sites Cleanup Fund (SSCUF) and the State Sites Cleanup Program (SSCUP). Its intent was to fund environmental cleanups at contaminated sites where the state is a liable party as an owner or operator of the site, as defined in Section 20126 of Part 201.

Date of Government Version: 12/31/2023

Date Data Arrived at EDR: 07/16/2024

Date Made Active in Reports: 10/07/2024

Number of Days to Update: 83

Source: Department of Environment, Great Lakes & Energy

Telephone: 517-284-5153

Last EDR Contact: 10/15/2024

Next Scheduled EDR Contact: 01/27/2025

Data Release Frequency: Varies

### 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

Date Data Arrived at EDR: N/A

Date Made Active in Reports: N/A

Number of Days to Update: N/A

Source: EDR, Inc.

Telephone: N/A

Last EDR Contact: N/A

Next Scheduled EDR Contact: N/A

Data Release Frequency: No Update Planned

#### EDR Hist Auto: EDR Exclusive Historical Auto 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.

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

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### EDR Hist Cleaner: EDR Exclusive Historical 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 Environment, Great Lakes, and Energy  
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 Environment, Great Lakes, and Energy  
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 Environment, Great Lakes, and Energy  
Telephone: N/A  
Last EDR Contact: 06/01/2012  
Next Scheduled EDR Contact: N/A  
Data Release Frequency: Varies

### OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 08/05/2024  
Date Data Arrived at EDR: 08/06/2024  
Date Made Active in Reports: 10/25/2024  
Number of Days to Update: 80

Source: Department of Energy & Environmental Protection  
Telephone: 860-424-3375  
Last EDR Contact: 11/05/2024  
Next Scheduled EDR Contact: 02/17/2025  
Data Release Frequency: No Update Planned

### NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2018  
Date Data Arrived at EDR: 04/10/2019  
Date Made Active in Reports: 05/16/2019  
Number of Days to Update: 36

Source: Department of Environmental Protection  
Telephone: N/A  
Last EDR Contact: 09/25/2024  
Next Scheduled EDR Contact: 01/13/2025  
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: 12/31/2019  
Date Data Arrived at EDR: 11/30/2023  
Date Made Active in Reports: 12/01/2023  
Number of Days to Update: 1

Source: Department of Environmental Conservation  
Telephone: 518-402-8651  
Last EDR Contact: 10/24/2024  
Next Scheduled EDR Contact: 02/03/2025  
Data Release Frequency: Quarterly

### PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/30/2018  
Date Data Arrived at EDR: 07/19/2019  
Date Made Active in Reports: 09/10/2019  
Number of Days to Update: 53

Source: Department of Environmental Protection  
Telephone: 717-783-8990  
Last EDR Contact: 10/03/2024  
Next Scheduled EDR Contact: 01/20/2025  
Data Release Frequency: Annually

### RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2020  
Date Data Arrived at EDR: 11/30/2021  
Date Made Active in Reports: 02/18/2022  
Number of Days to Update: 80

Source: Department of Environmental Management  
Telephone: 401-222-2797  
Last EDR Contact: 08/08/2024  
Next Scheduled EDR Contact: 11/26/2024  
Data Release Frequency: Annually

### WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 05/31/2018  
Date Data Arrived at EDR: 06/19/2019  
Date Made Active in Reports: 09/03/2019  
Number of Days to Update: 76

Source: Department of Natural Resources  
Telephone: N/A  
Last EDR Contact: 08/28/2024  
Next Scheduled EDR Contact: 12/16/2024  
Data Release Frequency: Annually

### Oil/Gas Pipelines

Source: Endeavor Business Media

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 Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

### Electric Power Transmission Line Data

Source: Endeavor Business Media

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## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

### AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

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

### Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

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

### Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

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

### Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

### Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

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

### Daycare Centers: Day Care Centers, Group & Family Homes

Source: Bureau of REgulatory Services

Telephone: 517-373-8300

**Flood Zone Data:** This data 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, 2010 and 2015 from the U.S. Fish and Wildlife Service.

### State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

### Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

## GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

### STREET AND ADDRESS INFORMATION

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## **GEOCHECK<sup>®</sup> - PHYSICAL SETTING SOURCE ADDENDUM**

### **TARGET PROPERTY ADDRESS**

BULL CORNER  
2853 ORCHARD HWY  
MANISTEE, MI 49660

### **TARGET PROPERTY COORDINATES**

Latitude (North):	44.287734 - 44° 17' 15.84"
Longitude (West):	86.240952 - 86° 14' 27.43"
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	560562.9
UTM Y (Meters):	4903895.5
Elevation:	694 ft. above sea level

### **USGS TOPOGRAPHIC MAP**

Target Property Map:	14455005 ONEKAMA, MI
Version Date:	2019
Northwest Map:	14457705 PARKDALE, MI
Version Date:	2019

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

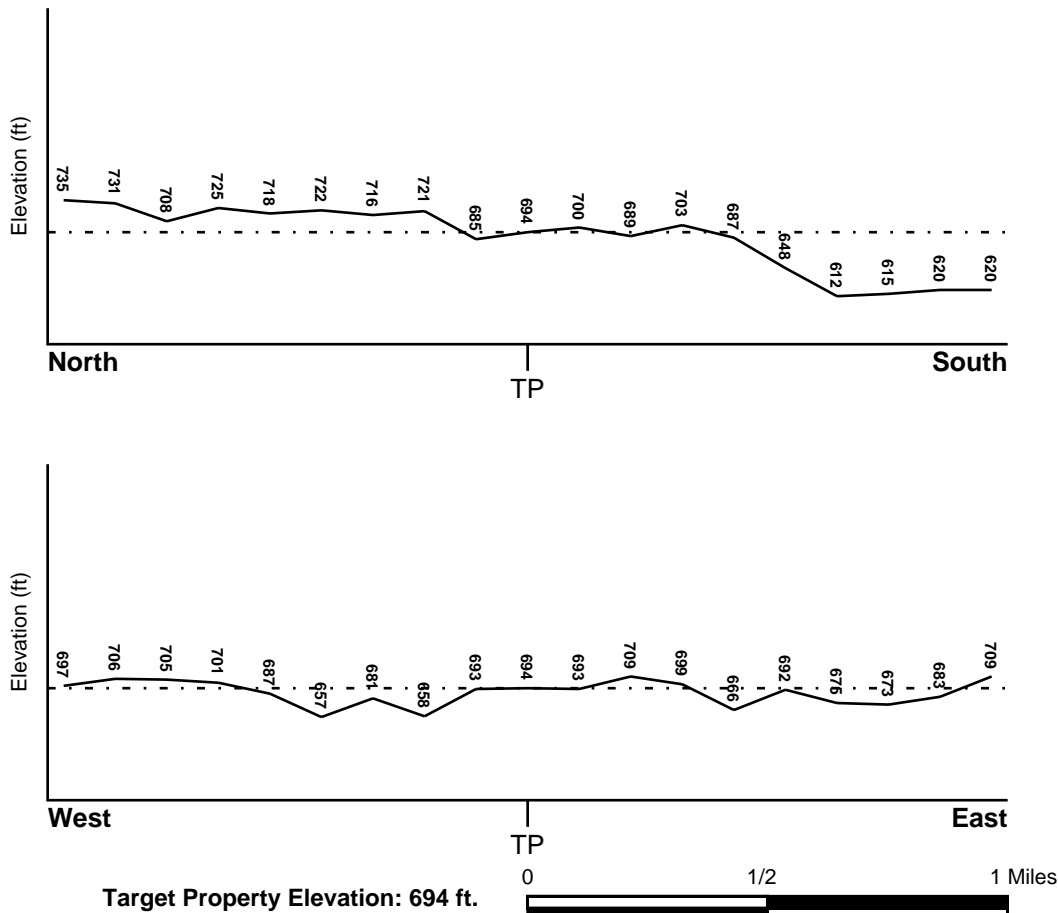
### TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

### TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General WSW

### 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>
2601320010B	FEMA Q3 Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
2601320005B	FEMA Q3 Flood data
2601320015B	FEMA Q3 Flood data
2601320020B	FEMA Q3 Flood data

### NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
ONEKAMA	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: Devonian  
Series: Upper Devonian  
Code: D3 (decoded above as Era, System & Series)

#### **GEOLOGIC AGE IDENTIFICATION**

Category: Stratified Sequence

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

### **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. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps. The following information is based on Soil Conservation Service STATSGO data.

Soil Component Name: RUBICON

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. Soils have very high and high hydraulic conductivity and low water holding capacity. Depth to water table is more than 6 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: LOW

Depth to Bedrock Min: > 60 inches

Depth to Bedrock Max: > 60 inches

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	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: 20.00 Min: 6.00	Max: 6.00 Min: 4.50
2	6 inches	18 inches	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: 20.00 Min: 6.00	Max: 6.00 Min: 4.50
3	18 inches	60 inches	sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand.	Max: 20.00 Min: 6.00	Max: 6.50 Min: 4.50

### OTHER SOIL TYPES IN AREA

Based on Soil Conservation Service STATSGO data, the following additional subordinant soil types may appear within the general area of target property.

Soil Surface Textures: muck  
loamy sand  
mucky - sand

Surficial Soil Types: muck  
loamy sand  
mucky - sand

Shallow Soil Types: loamy sand

Deeper Soil Types: stratified  
silty clay loam  
very gravelly - sand

### 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.

# GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

## WELL SEARCH DISTANCE INFORMATION

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

## FEDERAL USGS WELL INFORMATION

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

## FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

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

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

## STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MI6000000558875	0 - 1/8 Mile South
2	MI6000000558209	1/8 - 1/4 Mile NNW
3	MI6000000556054	1/8 - 1/4 Mile SW
A4	MI6000000556027	1/4 - 1/2 Mile ENE
A5	MI6000000558961	1/4 - 1/2 Mile ENE
B6	MI6000000558892	1/4 - 1/2 Mile NE
B7	MI6000000556031	1/4 - 1/2 Mile ENE
8	MI6000000561301	1/4 - 1/2 Mile ENE
C9	MI6000000556024	1/4 - 1/2 Mile North
C10	MI6000000561106	1/2 - 1 Mile NNW
11	MI6000000559631	1/2 - 1 Mile SE
D12	MI6000000560323	1/2 - 1 Mile North
D13	MI6000000556023	1/2 - 1 Mile North
14	MI6000000556030	1/2 - 1 Mile North
E15	MI6000000556028	1/2 - 1 Mile ENE
E16	MI6000000560191	1/2 - 1 Mile ENE
17	MI6000000556049	1/2 - 1 Mile South
18	MI6000000556029	1/2 - 1 Mile ENE
F19	MI6000000556051	1/2 - 1 Mile SSE
G20	MI6000000556052	1/2 - 1 Mile SSW
21	MI6000000556020	1/2 - 1 Mile North
22	MI6000000556025	1/2 - 1 Mile NE
G23	MI6000000561310	1/2 - 1 Mile SSW
G24	MI6000000556053	1/2 - 1 Mile SSW
F25	MI6000000559213	1/2 - 1 Mile South

## GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

### STATE DATABASE WELL INFORMATION

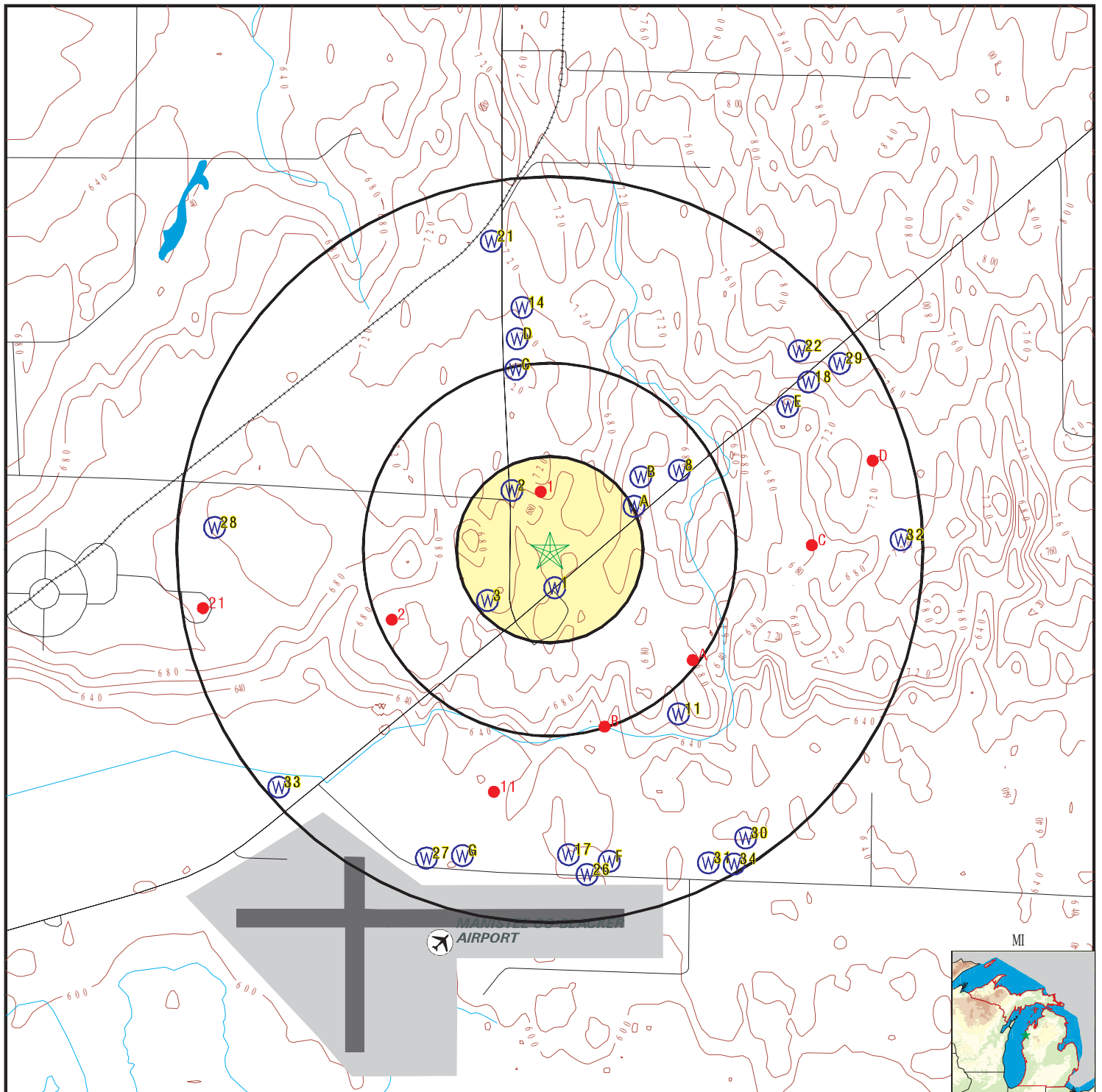
MAP ID	WELL ID	LOCATION FROM TP
26	MI6000000557662	1/2 - 1 Mile South
27	MI6000000560499	1/2 - 1 Mile SSW
28	MI6000000556055	1/2 - 1 Mile West
29	MI6000000556026	1/2 - 1 Mile ENE
30	MI6000000556050	1/2 - 1 Mile SE
31	MI6000000556047	1/2 - 1 Mile SSE
32	MI6000000556045	1/2 - 1 Mile East
33	MI6000000556056	1/2 - 1 Mile SW
34	MI6000000556048	1/2 - 1 Mile SSE

### OTHER STATE DATABASE INFORMATION

### STATE OIL/GAS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	MIOG13000049402	1/8 - 1/4 Mile North
2	MIOG13000046921	1/4 - 1/2 Mile WSW
A5	MIOG13000046645	1/4 - 1/2 Mile SE
A3	MIOG13000046643	1/4 - 1/2 Mile SE
A4	MIOG13000046644	1/4 - 1/2 Mile SE
B6	MIOG13000047062	1/4 - 1/2 Mile SSE
B9	MIOG13000047065	1/4 - 1/2 Mile SSE
B10	MIOG13000047064	1/4 - 1/2 Mile SSE
B7	MIOG13000047061	1/4 - 1/2 Mile SSE
B8	MIOG13000047063	1/4 - 1/2 Mile SSE
11	MIOG13000046479	1/2 - 1 Mile SSW
C13	MIOG13000047357	1/2 - 1 Mile East
C12	MIOG13000047358	1/2 - 1 Mile East
C14	MIOG13000047359	1/2 - 1 Mile East
C16	MIOG13000047360	1/2 - 1 Mile East
C15	MIOG13000047361	1/2 - 1 Mile East
D18	MIOG13000046692	1/2 - 1 Mile ENE
D17	MIOG13000046693	1/2 - 1 Mile ENE
D20	MIOG13000046694	1/2 - 1 Mile ENE
D19	MIOG13000046695	1/2 - 1 Mile ENE
21	MIOG13000046767	1/2 - 1 Mile West

# PHYSICAL SETTING SOURCE MAP - 7816119.30s



- County Boundary
- Major Roads
- Contour Lines
- Airports
- 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: Bull Corner  
 ADDRESS: 2853 ORCHARD HWY  
 MANISTEE MI 49660  
 LAT/LONG: 44.287734 / 86.240952

CLIENT: Gosling Czubak  
 CONTACT: Fern Sexton  
 INQUIRY #: 7816119.30s  
 DATE: November 07, 2024 4:06 pm

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**1**  
**South**  
**0 - 1/8 Mile**  
**Higher**

**MI WELLS MI6000000558875**

### WELLS:

Well ID:	51000004480	Permit #:	51-3239
Owner:	PATRICK EDMONDSON	Well Depth (ft):	90.5
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-1960	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	26-JAN-05
Case Type:	Steel-Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	84.5
Screen Start Depth (ft):	84.5	Screen End Depth (ft):	90.5
Static Water Level (ft):	57	Flowing:	N
Test Drawdown Depth (ft):	57	Test Hours:	.5
Test Rate:	10	Test Method:	BAIL
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	673	Specific Capacity:	.1754386
Rock Top (ft):	0		

**2**  
**NNW**  
**1/8 - 1/4 Mile**  
**Higher**

**MI WELLS MI6000000558209**

### WELLS:

Well ID:	51000003695	Permit #:	51-2310
Owner:	GENE GUTOWSKI	Well Depth (ft):	113.6
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-1960	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	13-DEC-02
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	107
Screen Start Depth (ft):	107.6	Screen End Depth (ft):	113.6
Static Water Level (ft):	78	Flowing:	N
Test Drawdown Depth (ft):	78	Test Hours:	.5
Test Rate:	10	Test Method:	BAIL
Well Grouted:	Y	Pump Capacity (gpm):	20
Elevation (ft):	0	Specific Capacity:	.12820513
Rock Top (ft):	0		

**3**  
**SW**  
**1/8 - 1/4 Mile**  
**Higher**

**MI WELLS MI6000000556054**

### WELLS:

Well ID:	51000001272	Permit #:	Not Reported
Owner:	MANISTEE VET. HOSP.	Well Depth (ft):	91
Well Type:	Other	Other Type Info:	Commercial

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19-DEC-75
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	87
Screen Start Depth (ft):	87	Screen End Depth (ft):	91
Static Water Level (ft):	73	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	692.29	Specific Capacity:	0
Rock Top (ft):	0		

**A4**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**MI WELLS**      **MI6000000556027**

**WELLS:**

Well ID:	51000001244	Permit #:	Not Reported
Owner:	MILLER, D.J.	Well Depth (ft):	87.6
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	10-MAR-77
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	83
Screen Start Depth (ft):	83	Screen End Depth (ft):	87
Static Water Level (ft):	61.2	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	692.29	Specific Capacity:	0
Rock Top (ft):	0		

**A5**  
**ENE**  
**1/4 - 1/2 Mile**  
**Higher**

**MI WELLS**      **MI6000000558961**

**WELLS:**

Well ID:	51000004589	Permit #:	51-2749
Owner:	Robert Miehlike	Well Depth (ft):	165
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	83-2175	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	01-DEC-03
Case Type:	PVC Plastic	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	160
Screen Start Depth (ft):	160	Screen End Depth (ft):	165
Static Water Level (ft):	124	Flowing:	N
Test Drawdown Depth (ft):	124	Test Hours:	.75
Test Rate:	35	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Rock Top (ft): 0

**B6**  
**NE**  
**1/4 - 1/2 Mile**  
**Higher**

**MI WELLS MI6000000558892**

**WELLS:**

Well ID:	51000004503	Permit #:	51-3288
Owner:	RAY SWIDOSKI	Well Depth (ft):	203
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-1603	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	10-APR-05
Case Type:	Steel-Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	197
Screen Start Depth (ft):	197	Screen End Depth (ft):	203
Static Water Level (ft):	50	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	1
Test Rate:	20	Test Method:	OTH
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

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

**MI WELLS MI6000000556031**

**WELLS:**

Well ID:	51000001248	Permit #:	Not Reported
Owner:	D.J. MILLER CONSTRUCTION CO.	Well Type:	Household
Well Depth (ft):	112	Well Status:	Not Reported
Other Type Info:	Not Reported	Water Supply Serial #:	0
Other Status Info:	Not Reported	Driller ID:	Not Reported
Well #:	Not Reported	Other Method Info:	Not Reported
Drill Method:	Cable Tool	Case Type:	Unknown
Construction Date:	10-MAR-78	Case Diameter (in):	2
Other Casing Info:	Not Reported	Screen Start Depth (ft):	108
Case Depth (ft):	108	Static Water Level (ft):	81
Screen End Depth (ft):	112	Test Drawdown Depth (ft):	0
Flowing:	N	Test Rate:	0
Test Hours:	0	Well Grouted:	N
Test Method:	UNK	Elevation (ft):	692.29
Pump Capacity (gpm):	0	Rock Top (ft):	0
Specific Capacity:	0		

**8**  
**ENE**  
**1/4 - 1/2 Mile**  
**Lower**

**MI WELLS MI6000000561301**

**WELLS:**

Well ID:	52000001669	Permit #:	Not Reported
Owner:	STEPHEN WISSLER	Well Depth (ft):	56

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	52-1675	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	16-JUL-86
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	52
Screen Start Depth (ft):	52	Screen End Depth (ft):	56
Static Water Level (ft):	30	Flowing:	N
Test Drawdown Depth (ft):	50	Test Hours:	2
Test Rate:	15	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	633	Specific Capacity:	0
Rock Top (ft):	0		
Well ID:	51000007152	Permit #:	51-7943
Owner:	DONALD BLOCK	Well Depth (ft):	114
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	47-1854	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	16-JUN-21
Case Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	110
Screen Start Depth (ft):	110	Screen End Depth (ft):	114
Static Water Level (ft):	36	Flowing:	N
Test Drawdown Depth (ft):	60	Test Hours:	2
Test Rate:	20	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	.33333333
Rock Top (ft):	0		

**C9**  
**North**  
**1/4 - 1/2 Mile**  
**Higher**

**MI WELLS      MI6000000556024**

**WELLS:**

Well ID:	51000001241	Permit #:	Not Reported
Owner:	ANDERSON,LESLIE	Well Depth (ft):	108
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	31-OCT-77
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	104
Screen Start Depth (ft):	104	Screen End Depth (ft):	108
Static Water Level (ft):	86	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	716.9	Specific Capacity:	0
Rock Top (ft):	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**C10**  
**NNW**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000561106**

### WELLS:

Well ID:	52000001474	Permit #:	Not Reported
Owner:	CAROL LIUBAKKA	Well Depth (ft):	57
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	52-1675	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	26-MAY-87
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	53
Screen Start Depth (ft):	53	Screen End Depth (ft):	57
Static Water Level (ft):	11	Flowing:	N
Test Drawdown Depth (ft):	53	Test Hours:	2
Test Rate:	15	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	656	Specific Capacity:	0
Rock Top (ft):	0		

Well ID:	51000006954	Permit #:	51-8107
Owner:	Andrew & Molly Martz	Well Depth (ft):	124
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	43-2140	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	23-NOV-21
Case Type:	PVC Plastic	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	114
Screen Start Depth (ft):	114	Screen End Depth (ft):	124
Static Water Level (ft):	88	Flowing:	N
Test Drawdown Depth (ft):	96	Test Hours:	2
Test Rate:	12	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	.125
Rock Top (ft):	0		

**11**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000559631**

### WELLS:

Well ID:	51000005384	Permit #:	51-4304
Owner:	ANDREW SHIVELY	Well Depth (ft):	148
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-2430	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	05-JUL-08
Case Type:	PVC Plastic	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	140
Screen Start Depth (ft):	140	Screen End Depth (ft):	148
Static Water Level (ft):	91	Flowing:	N

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Test Drawdown Depth (ft): 109  
Test Rate: 38  
Well Grouted: Y  
Elevation (ft): 0  
Rock Top (ft): 0

Test Hours: 2  
Test Method: AIR  
Pump Capacity (gpm): 16  
Specific Capacity: 0

**D12**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000560323**

### WELLS:

Well ID: 52000000681  
Owner: DAVID F. HYNDMAN  
Well Type: Household  
Well Status: Not Reported  
Water Supply Serial #: 0  
Driller ID: 52-1269  
Other Method Info: Not Reported  
Case Type: Unknown  
Case Diameter (in): 4  
Screen Start Depth (ft): 0  
Static Water Level (ft): 6  
Test Drawdown Depth (ft): 45  
Test Rate: 10  
Well Grouted: Y  
Elevation (ft): 826.77  
Rock Top (ft): 12

Permit #: Not Reported  
Well Depth (ft): 92  
Other Type Info: Not Reported  
Other Status Info: Not Reported  
Well #: Not Reported  
Drill Method: Cable Tool  
Construction Date: 18-FEB-78  
Other Casing Info: Not Reported  
Case Depth (ft): 26  
Screen End Depth (ft): 0  
Flowing: N  
Test Hours: 1  
Test Method: UNK  
Pump Capacity (gpm): 0  
Specific Capacity: 0

Well ID: 51000006116  
Owner: DAVE & RUTH REVOLT  
Well Type: Household  
Well Status: Active  
Water Supply Serial #: 0  
Driller ID: 53-1960  
Other Method Info: Not Reported  
Case Type: Steel-Galvanized  
Case Diameter (in): 4  
Screen Start Depth (ft): 113  
Static Water Level (ft): 86  
Test Drawdown Depth (ft): 86  
Test Rate: 10  
Well Grouted: Y  
Elevation (ft): 0  
Rock Top (ft): 0

Permit #: 51-5712  
Well Depth (ft): 119  
Other Type Info: Not Reported  
Other Status Info: Not Reported  
Well #: Not Reported  
Drill Method: Cable Tool  
Construction Date: 03-MAR-14  
Other Casing Info: Not Reported  
Case Depth (ft): 113  
Screen End Depth (ft): 119  
Flowing: U  
Test Hours: 1  
Test Method: BAIL  
Pump Capacity (gpm): 10  
Specific Capacity: .11627907

**D13**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556023**

### WELLS:

Well ID: 51000001240  
Owner: MILLER, DALE J.  
Well Type: Household  
Well Status: Not Reported  
Water Supply Serial #: 0  
Driller ID: 53-0405

Permit #: Not Reported  
Well Depth (ft): 102  
Other Type Info: Not Reported  
Other Status Info: Not Reported  
Well #: Not Reported  
Drill Method: Cable Tool

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Other Method Info:	Not Reported	Construction Date:	14-SEP-78
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	98
Screen Start Depth (ft):	98	Screen End Depth (ft):	102
Static Water Level (ft):	85	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	716.9	Specific Capacity:	0
Rock Top (ft):	0		

**14**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS**      **MI6000000556030**

### WELLS:

Well ID:	51000001247	Permit #:	Not Reported
Owner:	SCHRAMSKI, JEROME	Well Depth (ft):	115
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	26-JUL-78
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	109
Screen Start Depth (ft):	109	Screen End Depth (ft):	115
Static Water Level (ft):	87	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	715.26	Specific Capacity:	0
Rock Top (ft):	0		

**E15**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS**      **MI6000000556028**

### WELLS:

Well ID:	51000001245	Permit #:	Not Reported
Owner:	FRANKLIN, DICK	Well Depth (ft):	110
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	01-FEB-75
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	106
Screen Start Depth (ft):	106	Screen End Depth (ft):	110
Static Water Level (ft):	14	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	734.94	Specific Capacity:	0
Rock Top (ft):	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**E16**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000560191**

### WELLS:

Well ID:	52000000549	Permit #:	Not Reported
Owner:	MAINO, JIM	Well Depth (ft):	70
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	52-1675	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	01-AUG-80
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	66
Screen Start Depth (ft):	66	Screen End Depth (ft):	70
Static Water Level (ft):	25	Flowing:	N
Test Drawdown Depth (ft):	60	Test Hours:	2
Test Rate:	15	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	1181.1	Specific Capacity:	0
Rock Top (ft):	0		

Well ID:	51000005983	Permit #:	51-5608
Owner:	Graunstadt	Well Depth (ft):	79
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-1603	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	09-AUG-13
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	73
Screen Start Depth (ft):	73	Screen End Depth (ft):	79
Static Water Level (ft):	43	Flowing:	N
Test Drawdown Depth (ft):	43	Test Hours:	1
Test Rate:	18	Test Method:	OTH
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

**17**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556049**

### WELLS:

Well ID:	51000001267	Permit #:	Not Reported
Owner:	HARTHUN, ARNIE	Well Depth (ft):	58
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-1603	Drill Method:	Auger/Bored
Other Method Info:	Not Reported	Construction Date:	04-APR-79
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	54
Screen Start Depth (ft):	54	Screen End Depth (ft):	58
Static Water Level (ft):	21	Flowing:	N

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Test Drawdown Depth (ft): 0  
Test Rate: 10  
Well Grouted: Y  
Elevation (ft): 620.11  
Rock Top (ft): 0

Test Hours: 1  
Test Method: UNK  
Pump Capacity (gpm): 0  
Specific Capacity: 0

**18**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556029**

### WELLS:

Well ID: 51000001246  
Owner: STEFANSKI, JOSEPH  
Well Type: Household  
Well Status: Not Reported  
Water Supply Serial #: 0  
Driller ID: 51-1900  
Other Method Info: Not Reported  
Case Type: Unknown  
Case Diameter (in): 4  
Screen Start Depth (ft): 84  
Static Water Level (ft): 40  
Test Drawdown Depth (ft): 60  
Test Rate: 25  
Well Grouted: N  
Elevation (ft): 734.94  
Rock Top (ft): 0

Permit #: Not Reported  
Well Depth (ft): 88  
Other Type Info: Not Reported  
Other Status Info: Not Reported  
Well #: Not Reported  
Drill Method: Cable Tool  
Construction Date: 17-SEP-87  
Other Casing Info: Not Reported  
Case Depth (ft): 84  
Screen End Depth (ft): 88  
Flowing: N  
Test Hours: 2  
Test Method: UNK  
Pump Capacity (gpm): 0  
Specific Capacity: 0

**F19**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556051**

### WELLS:

Well ID: 51000001269  
Owner: REVOLT, DAN  
Well Type: Household  
Well Status: Not Reported  
Water Supply Serial #: 0  
Driller ID: 53-0405  
Other Method Info: Not Reported  
Case Type: Steel-black  
Case Diameter (in): 2  
Screen Start Depth (ft): 53  
Static Water Level (ft): 16.67  
Test Drawdown Depth (ft): 0  
Test Rate: 0  
Well Grouted: N  
Elevation (ft): 620.11  
Rock Top (ft): 0

Permit #: Not Reported  
Well Depth (ft): 57  
Other Type Info: Not Reported  
Other Status Info: Not Reported  
Well #: Not Reported  
Drill Method: Hollow Rod  
Construction Date: 05-OCT-84  
Other Casing Info: Not Reported  
Case Depth (ft): 53  
Screen End Depth (ft): 57  
Flowing: N  
Test Hours: 0  
Test Method: UNK  
Pump Capacity (gpm): 0  
Specific Capacity: 0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**G20**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556052**

### WELLS:

Well ID:	51000001270	Permit #:	Not Reported
Owner:	BEATTY, GORDON	Well Depth (ft):	57
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-0364	Drill Method:	Driven Hand
Other Method Info:	Not Reported	Construction Date:	25-AUG-73
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	47
Screen Start Depth (ft):	52	Screen End Depth (ft):	57
Static Water Level (ft):	12	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	618.47	Specific Capacity:	0
Rock Top (ft):	0		

**21**  
**North**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556020**

### WELLS:

Well ID:	51000001237	Permit #:	Not Reported
Owner:	JEBAVY SORENSON CO.	Well Depth (ft):	130
Well Type:	Industrial	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Hollow Rod
Other Method Info:	Not Reported	Construction Date:	06-DEC-66
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	113
Screen Start Depth (ft):	113	Screen End Depth (ft):	130
Static Water Level (ft):	97	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	726.74	Specific Capacity:	0
Rock Top (ft):	0		

**22**  
**NE**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556025**

### WELLS:

Well ID:	51000001242	Permit #:	Not Reported
Owner:	NIESON, JOHN	Well Depth (ft):	117
Well Type:	Household	Other Type Info:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	Not Reported	Drill Method:	Hollow Rod
Other Method Info:	Not Reported	Construction Date:	20-JUL-68
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	113
Screen Start Depth (ft):	113	Screen End Depth (ft):	117
Static Water Level (ft):	90	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	757.91	Specific Capacity:	0
Rock Top (ft):	0		

**G23**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS      MI6000000561310**

**WELLS:**

Well ID:	52000001678	Permit #:	Not Reported
Owner:	MICHAEL FRIES	Well Depth (ft):	70
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	52-1675	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	03-MAY-79
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	66
Screen Start Depth (ft):	66	Screen End Depth (ft):	70
Static Water Level (ft):	22	Flowing:	N
Test Drawdown Depth (ft):	65	Test Hours:	2
Test Rate:	12	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	626	Specific Capacity:	0
Rock Top (ft):	0		

Well ID:	51000007161	Permit #:	51-8393
Owner:	KEITH GRAHAM	Well Depth (ft):	59
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-1603	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	11-AUG-22
Case Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	53
Screen Start Depth (ft):	53	Screen End Depth (ft):	59
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth (ft):	20	Test Hours:	1
Test Rate:	18	Test Method:	BAIL
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	.9
Rock Top (ft):	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**G24**  
**SSW**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556053**

### WELLS:

Well ID:	51000001271	Permit #:	Not Reported
Owner:	LINDERMAN, RICHARD	Well Depth (ft):	59
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-0364	Drill Method:	Driven Hand
Other Method Info:	Not Reported	Construction Date:	11-OCT-72
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	49
Screen Start Depth (ft):	54	Screen End Depth (ft):	59
Static Water Level (ft):	21	Flowing:	N
Test Drawdown Depth (ft):	25	Test Hours:	1
Test Rate:	25	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	618.47	Specific Capacity:	0
Rock Top (ft):	0		

**F25**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000559213**

### WELLS:

Well ID:	51000004902	Permit #:	51-3835
Owner:	Carol Lucas	Well Depth (ft):	59
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	43-0539	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	08-AUG-06
Case Type:	PVC Plastic	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	52
Screen Start Depth (ft):	52	Screen End Depth (ft):	59
Static Water Level (ft):	23	Flowing:	N
Test Drawdown Depth (ft):	31	Test Hours:	2
Test Rate:	10	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	573	Specific Capacity:	.32258065
Rock Top (ft):	0		

**26**  
**South**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000557662**

### WELLS:

Well ID:	51000003137	Permit #:	51-801
Owner:	GARY ANDERSON	Well Depth (ft):	58
Well Type:	Household	Other Type Info:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-1900	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	12-SEP-00
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	54
Screen Start Depth (ft):	54	Screen End Depth (ft):	58
Static Water Level (ft):	12	Flowing:	N
Test Drawdown Depth (ft):	40	Test Hours:	2
Test Rate:	20	Test Method:	BAIL
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	.5
Rock Top (ft):	0		

27  
SSW  
1/2 - 1 Mile  
Lower

MI WELLS MI6000000560499

### WELLS:

Well ID:	52000000859	Permit #:	Not Reported
Owner:	KAUKOLA, KEVIN	Well Depth (ft):	94
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	52-1675	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	12-JUN-86
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	47
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	30	Flowing:	N
Test Drawdown Depth (ft):	70	Test Hours:	2
Test Rate:	15	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	902	Specific Capacity:	0
Rock Top (ft):	0		
Well ID:	51000006311	Permit #:	51-6570
Owner:	John Fisk	Well Depth (ft):	115
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	37-2236	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	17-MAY-17
Case Type:	PVC Plastic	Other Casing Info:	Not Reported
Case Diameter (in):	5	Case Depth (ft):	107
Screen Start Depth (ft):	107	Screen End Depth (ft):	115
Static Water Level (ft):	28	Flowing:	N
Test Drawdown Depth (ft):	80	Test Hours:	1
Test Rate:	100	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	22
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance  
Elevation

Database EDR ID Number

**28**  
**West**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556055**

### WELLS:

Well ID:	51000001273	Permit #:	Not Reported
Owner:	WILSON, MILTON	Well Depth (ft):	117
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	43-0539	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	21-APR-78
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	114
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	92	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	700.49	Specific Capacity:	0
Rock Top (ft):	0		

**29**  
**ENE**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556026**

### WELLS:

Well ID:	51000001243	Permit #:	Not Reported
Owner:	NIESON, HARLAN	Well Depth (ft):	141
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Hollow Rod
Other Method Info:	Not Reported	Construction Date:	16-JUN-87
Case Type:	Steel-black	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	137
Screen Start Depth (ft):	137	Screen End Depth (ft):	141
Static Water Level (ft):	999.99	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	759.55	Specific Capacity:	0
Rock Top (ft):	0		

**30**  
**SE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556050**

### WELLS:

Well ID:	51000001268	Permit #:	Not Reported
Owner:	KENNY, JEROME	Well Depth (ft):	51
Well Type:	Household	Other Type Info:	Not Reported

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-0364	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	13-OCT-72
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	42
Screen Start Depth (ft):	46	Screen End Depth (ft):	51
Static Water Level (ft):	18	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	620.11	Specific Capacity:	0
Rock Top (ft):	0		

**31**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556047**

**WELLS:**

Well ID:	51000001265	Permit #:	Not Reported
Owner:	SHRIVELY, TOM	Well Depth (ft):	64
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	28-APR-83
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	4	Case Depth (ft):	60
Screen Start Depth (ft):	60	Screen End Depth (ft):	64
Static Water Level (ft):	19	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	621.75	Specific Capacity:	0
Rock Top (ft):	0		

**32**  
**East**  
**1/2 - 1 Mile**  
**Higher**

**MI WELLS MI6000000556045**

**WELLS:**

Well ID:	51000001263	Permit #:	Not Reported
Owner:	PETROSTAR ENERGYWESCO STATION	Well Type:	Household
Well Depth (ft):	50	Well Status:	Not Reported
Other Type Info:	Not Reported	Water Supply Serial #:	0
Other Status Info:	Not Reported	Driller ID:	69-1770
Well #:	Not Reported	Other Method Info:	Not Reported
Drill Method:	Auger/Bored	Case Type:	Unknown
Construction Date:	03-JUN-85	Case Diameter (in):	4
Other Casing Info:	Not Reported	Screen Start Depth (ft):	45
Case Depth (ft):	45	Static Water Level (ft):	15
Screen End Depth (ft):	50	Test Drawdown Depth (ft):	0
Flowing:	N	Test Rate:	0
Test Hours:	0	Test Method:	UNK
Test Method:	UNK	Well Grouted:	Y
Pump Capacity (gpm):	0	Elevation (ft):	711.98

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Specific Capacity:

0

Rock Top (ft):

0

**33**  
**SW**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556056**

### WELLS:

Well ID:	51000001274	Permit #:	Not Reported
Owner:	HELMINAIK, ED	Well Depth (ft):	55
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	51-0364	Drill Method:	Driven Hand
Other Method Info:	Not Reported	Construction Date:	22-OCT-79
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	47
Screen Start Depth (ft):	50	Screen End Depth (ft):	55
Static Water Level (ft):	14	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	616.83	Specific Capacity:	0
Rock Top (ft):	0		

**34**  
**SSE**  
**1/2 - 1 Mile**  
**Lower**

**MI WELLS MI6000000556048**

### WELLS:

Well ID:	51000001266	Permit #:	Not Reported
Owner:	BEDINGHAM, JOHN	Well Depth (ft):	57
Well Type:	Household	Other Type Info:	Not Reported
Well Status:	Not Reported	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	53-0405	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	29-DEC-77
Case Type:	Unknown	Other Casing Info:	Not Reported
Case Diameter (in):	2	Case Depth (ft):	53
Screen Start Depth (ft):	53	Screen End Depth (ft):	57
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth (ft):	0	Test Hours:	0
Test Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	679.17	Specific Capacity:	0
Rock Top (ft):	0		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**1**  
**North**  
**1/8 - 1/4 Mile**

**OIL\_GAS MIOG13000049402**

**OIL\_GAS:**

API #:	21101612457000	Well #:	GT-112
Permit #:	GT2075	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Part 625 Test Well
Well Status:	Plugging Approved	Bore Type:	Mineral (Non-Confidential)
Slant:	V	Total Depth Drilled (ft):	0
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	Not Reported	Formation Tops:	Not Reported
Field Name:	Not Reported	Production Formation:	Not Reported
Production Unit #:	Not Reported	Lease Name:	Earnest B. And Jennie L. Olsen
Operator #:	3441	Company Name:	Superior Oil Co The
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	0
Permit Date:	05-AUG-48		

**2**  
**WSW**  
**1/4 - 1/2 Mile**

**OIL\_GAS MIOG13000046921**

**OIL\_GAS:**

API #:	21101310370000	Well #:	2-28
Permit #:	31037	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Dry Hole
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4525
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Not Reported	Production Formation:	Not Reported
Production Unit #:	Not Reported	Lease Name:	Jebavy & Sorenson Orchard
Operator #:	11	Company Name:	Swepi Lp
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	0
Permit Date:	14-JUN-76		

**A5**  
**SE**  
**1/4 - 1/2 Mile**

**OIL\_GAS MIOG13000046645**

**OIL\_GAS:**

API #:	21101299850000	Well #:	1-27
Permit #:	29985	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4600
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN BROWN	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	692.00000000	Lease Name:	State Manistee
Operator #:	7772	Company Name:	Lambda Energy Resources Llc

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	26978
Permit Date:	18-OCT-74		

**A3  
SE  
1/4 - 1/2 Mile**

**OIL\_GAS MIOG13000046643**

**OIL\_GAS:**

API #:	21101299850000	Well #:	1-27
Permit #:	29985	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4600
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN BROWN	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	692.00000000	Lease Name:	State Manistee
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	6458
Permit Date:	18-OCT-74		

**A4  
SE  
1/4 - 1/2 Mile**

**OIL\_GAS MIOG13000046644**

**OIL\_GAS:**

API #:	21101299850000	Well #:	1-27
Permit #:	29985	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4600
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN BROWN	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	692.00000000	Lease Name:	State Manistee
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	8800
Permit Date:	18-OCT-74		

**B6  
SSE  
1/4 - 1/2 Mile**

**OIL\_GAS MIOG13000047062**

**OIL\_GAS:**

API #:	21101318050000	Well #:	2-27
Permit #:	31805	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4560
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	691.00000000	Lease Name:	Lutheran Home Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	6029
Permit Date:	28-JUL-77		

**B9**  
**SSE**  
**1/4 - 1/2 Mile**

**OIL\_GAS**      **MIOG13000047065**

**OIL\_GAS:**

API #:	21101318050000	Well #:	2-27
Permit #:	31805	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4560
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	691.00000000	Lease Name:	Lutheran Home Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	56958
Permit Date:	28-JUL-77		

**B10**  
**SSE**  
**1/4 - 1/2 Mile**

**OIL\_GAS**      **MIOG13000047064**

**OIL\_GAS:**

API #:	21101318050000	Well #:	2-27
Permit #:	31805	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4560
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	691.00000000	Lease Name:	Lutheran Home Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	13472
Permit Date:	28-JUL-77		

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

**OIL\_GAS**      **MIOG13000047061**

**OIL\_GAS:**

API #:	21101318050000	Well #:	2-27
Permit #:	31805	Completion Date:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4560
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	691.00000000	Lease Name:	Lutheran Home Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	365
Permit Date:	28-JUL-77		

**B8**  
**SSE**  
**1/4 - 1/2 Mile**

**OIL\_GAS**      **MIOG13000047063**

**OIL\_GAS:**

API #:	21101318050000	Well #:	2-27
Permit #:	31805	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4560
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 27 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	691.00000000	Lease Name:	Lutheran Home Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	8816
Permit Date:	28-JUL-77		

**11**  
**SSW**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000046479**

**OIL\_GAS:**

API #:	21101004657000	Well #:	S-29
Permit #:	00465	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Part 625 Test Well
Well Status:	Shut_In	Bore Type:	Mineral (Non-Confidential)
Slant:	V	Total Depth Drilled (ft):	2671
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	FILER SANDSTONE	Formation Tops:	Not Reported
Field Name:	Not Reported	Production Formation:	Not Reported
Production Unit #:	Not Reported	Lease Name:	Not Reported
Operator #:	5418		
Company Name:	Martin Marietta Magnesia Specialties Llc		
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	0
Permit Date:	16-JAN-01		

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID  
Direction  
Distance

Database EDR ID Number

**C13**  
**East**  
**1/2 - 1 Mile**

**OIL\_GAS MIOG13000047357**

**OIL\_GAS:**

API #:	21101329100000	Well #:	3-27
Permit #:	32910	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4586
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	685.00000000	Lease Name:	State Manistee Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	287
Permit Date:	02-APR-79		

**C12**  
**East**  
**1/2 - 1 Mile**

**OIL\_GAS MIOG13000047358**

**OIL\_GAS:**

API #:	21101329100000	Well #:	3-27
Permit #:	32910	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4586
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	685.00000000	Lease Name:	State Manistee Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	5448
Permit Date:	02-APR-79		

**C14**  
**East**  
**1/2 - 1 Mile**

**OIL\_GAS MIOG13000047359**

**OIL\_GAS:**

API #:	21101329100000	Well #:	3-27
Permit #:	32910	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4586
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	685.00000000	Lease Name:	State Manistee Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	6637
Permit Date:	02-APR-79		

**C16**  
**East**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000047360**

**OIL\_GAS:**

API #:	21101329100000	Well #:	3-27
Permit #:	32910	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4586
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	685.00000000	Lease Name:	State Manistee Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	8915
Permit Date:	02-APR-79		

**C15**  
**East**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000047361**

**OIL\_GAS:**

API #:	21101329100000	Well #:	3-27
Permit #:	32910	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Natural Gas Well
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4586
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	685.00000000	Lease Name:	State Manistee Et Al
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	-1
Federally Owned Land:	0	H2S Concentration:	23991
Permit Date:	02-APR-79		

**D18**  
**ENE**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000046692**

**OIL\_GAS:**

API #:	21101301940000	Well #:	2-23
Permit #:	30194	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4667
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	683.00000000	Lease Name:	Olsen Webb
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	625
Permit Date:	25-FEB-75		

**D17**  
**ENE**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000046693**

**OIL\_GAS:**

API #:	21101301940000	Well #:	2-23
Permit #:	30194	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4667
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	683.00000000	Lease Name:	Olsen Webb
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	1998
Permit Date:	25-FEB-75		

**D20**  
**ENE**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000046694**

**OIL\_GAS:**

API #:	21101301940000	Well #:	2-23
Permit #:	30194	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4667
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	683.00000000	Lease Name:	Olsen Webb
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	7925
Permit Date:	25-FEB-75		

**D19**  
**ENE**  
**1/2 - 1 Mile**

**OIL\_GAS**      **MIOG13000046695**

**OIL\_GAS:**

API #:	21101301940000	Well #:	2-23
Permit #:	30194	Completion Date:	0

## GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Plug Date:	Not Reported	Well Type:	Gas Condensate Well
Well Status:	Temporarily Abandoned	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4667
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Manistee 23 - 22N - 16W	Production Formation:	NIAGARAN(G)
Production Unit #:	683.00000000	Lease Name:	Olsen Webb
Operator #:	7772	Company Name:	Lambda Energy Resources Llc
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	15989
Permit Date:	25-FEB-75		

21  
West  
1/2 - 1 Mile

OIL\_GAS      MIOG13000046767

### OIL\_GAS:

API #:	21101304810000	Well #:	1-28
Permit #:	30481	Completion Date:	0
Plug Date:	Not Reported	Well Type:	Dry Hole
Well Status:	Plugging Approved	Bore Type:	Oil and Gas Test
Slant:	V	Total Depth Drilled (ft):	4443
True Vertical Depth (ft):	0	Kickoff Point of TVD:	0
Deepest Formation:	NIAGARAN GRAY	Formation Tops:	K
Field Name:	Not Reported	Production Formation:	Not Reported
Production Unit #:	Not Reported	Lease Name:	Dontz Et Al
Operator #:	11	Company Name:	Swepi Lp
Surface Owner:	Not Reported	State Owned Land:	0
Federally Owned Land:	0	H2S Concentration:	0
Permit Date:	16-JUL-75		

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

State Database: MI Radon

#### Radon Test Results

Zipcode	Test Date	LT Sign	Result
49660	3/29/1997		1.5
49660	1/29/2008		1.6
49660	11/12/1999		1.6
49660	3/8/2000		1.6
49660	11/26/2004		1.5
49660	10/18/2004		1.5
49660	2/22/2005		1.5
49660	1/22/2005		1.4
49660	12/20/2004		1.4
49660	5/20/2005		1.4
49660	11/27/2004		1.4
49660	9/25/2006		1.4
49660	11/17/1997		1.4
49660	11/13/2004		4.4
49660	11/2/1999		4.3
49660	4/16/2004		4.0
49660	12/6/1999		4.4
49660	2/7/2005		4.1
49660	5/20/2004		4.1
49660	2/4/2005		4.1
49660	2/15/2002		4.5
49660	1/27/2001		4.1
49660	2/9/2009	<	0.3
49660	9/18/2009	<	0.3
49660	12/17/2002		7.5
49660	1/28/2002		6.4
49660	11/5/2003		5.9
49660	3/5/2002		5.0
49660	3/4/2005		5.3
49660	2/3/2005		5.3
49660	3/9/2009		5.0
49660	2/9/2008		5.7
49660	2/7/2005		4.9
49660	3/4/2002		5.6
49660	12/17/2002		6.7
49660	3/27/2002		9.8
49660	2/11/2002		8.4
49660	1/29/2005		8.4
49660	3/4/2005		11.4
49660	5/29/2008		9.7
49660	2/7/2005		2.0
49660	3/7/2001		8.2
49660	11/24/2004		2.0
49660	11/16/2004		2.0
49660	3/8/2007		2.0
49660	1/19/2010		2.1
49660			

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

	4/30/2009		2.7
49660	4/3/2009		2.6
49660	11/10/2006		2.5
49660	2/25/2002		2.4
49660	2/4/2005		2.4
49660	2/10/2005		2.4
49660	1/26/2001		2.4
49660	3/10/2007		2.3
49660	1/20/2009		2.3
49660	11/4/1999		2.2
49660	11/8/1999		2.2
49660	12/9/1996		2.2
49660	2/7/2002		2.3
49660	1/19/2005		2.2
49660	6/26/2004		2.2
49660	3/9/2005		2.2
49660	3/9/2002		2.7
49660	1/23/2001		3.0
49660	5/8/2007		2.7
49660	2/7/2005		2.8
49660	2/13/2008		2.7
49660	1/28/2002		2.9
49660	11/2/2004		2.9
49660	3/12/2009	<	0.3
49660	2/1/2008	<	0.3
49660	5/21/2009	<	0.3
49660	11/25/2000		3.6
49660	11/5/1999	<	0.3
49660	11/6/1999	<	0.3
49660	1/19/2005		3.2
49660	1/31/2005		3.2
49660	8/27/2009	<	0.3
49660	12/23/2002		3.9
49660	6/18/2009	<	0.3
49660	2/22/2005		3.1
49660	1/15/2005		3.8
49660	11/22/2003		3.6
49660	11/11/2004		1.9
49660	2/20/2003		1.9
49660	2/7/2003		1.9
49660	3/29/1997		1.8
49660	2/21/1998		1.8
49660	2/16/2002		1.8
49660	1/31/2005		1.8
49660	2/12/2008		1.8
49660	3/7/2005		1.8
49660	11/2/2004		1.8
49660	3/19/2005		1.7
49660	3/10/2006		1.7
49660	4/5/2002		1.6
49660	11/10/2004		1.6
49660	5/27/2005	<	0.3
49660	1/20/2005		0.5
49660	10/30/2006	<	0.3
49660	5/17/2007	<	0.3
49660	5/23/2006		0.5
49660			

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

	2/1/2007	<	0.3
49660	3/2/2007		0.5
49660	1/19/2005	<	0.3
49660	11/20/2004	<	0.3
49660	5/20/1994		0.4
49660	1/31/1994		0.4
49660	1/25/2003	<	0.3
49660	4/11/2005	<	0.3
49660	2/3/1994		0.4
49660	2/4/2002	<	0.3
49660	3/2/2004	<	0.3
49660	1/25/2008	<	0.3
49660	2/15/2002	<	0.3
49660	9/22/2003	<	0.3
49660	9/1/2007	<	0.3
49660	5/23/1997	<	0.3
49660	1/27/2003		0.5
49660	2/28/1998		0.8
49660	2/28/1998		0.8
49660	11/5/2004		0.7
49660	11/18/1996		0.9
49660	1/29/2005		0.7
49660	1/27/2005		0.7
49660	4/8/2005		0.7
49660	4/10/2007		0.6
49660	7/9/2005		0.6
49660	1/13/2005		0.6
49660	12/6/2004		0.6
49660	11/13/2004		0.8
49660	2/10/2005		0.8
49660	11/3/2006		0.7
49660	1/28/2003		0.9
49660	11/10/2003		0.9
49660	2/25/2002		0.9
49660	3/22/2005		0.6
49660	10/29/2005		0.8
49660	4/9/2005		0.8
49660	1/25/2006		0.6
49660	10/30/2006		0.7
49660	3/22/2005		0.9
49660	11/13/2004		0.9
49660	2/16/2005		0.9
49660	2/8/2005		0.9
49660	3/3/2006		0.9
49660	3/1/2008		0.8
49660	3/19/2009		0.6
49660	6/28/1995		0.6
49660	6/28/1995		0.6
49660	6/28/1995		0.6
49660	6/28/1995		0.6
49660	4/11/1994		0.6
49660	7/1/1994		0.5
49660	12/31/1993		0.7
49660	3/7/2009		0.9
49660	2/20/2003		0.5
49660	3/5/2002		0.6
49660			

# GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

## RADON

### AREA RADON INFORMATION

	2/4/2002	0.6
49660	2/22/2001	1.4
49660	1/22/2001	1.4
49660	12/29/2006	1.3
49660	2/27/2007	1.3
49660	1/3/2007	1.3
49660	11/5/2004	1.3
49660	3/29/1997	1.2
49660	11/4/1999	1.2
49660	11/4/2004	1.2
49660	11/4/2004	1.2
49660	2/27/2006	1.2
49660	1/15/2002	1.1
49660	1/27/2001	1.1
49660	11/12/2004	1.1
49660	11/4/2004	1.1
49660	10/31/2005	1.1
49660	11/5/2004	1.0
49660	2/8/2006	1.0
49660	8/18/2006	1.0
49660	11/22/2008	1.0
49660	3/5/2007	1.0

Federal EPA Radon Zone for MANISTEE County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

---

Federal Area Radon Information for Zip Code: 49660

Number of sites tested: 3

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	2.700 pCi/L	67%	33%	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, 2010 and 2015 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<sup>R</sup> 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. Locations of verified municipal and private water well sites compiled from Michigan Department of Public Health, Water Well and Pump Records. Available in the following MI counties: Calhoun, Eaton, Genesee, Ingham, Jackson, Kalamazoo, Kent, Midland, Muskegon, Oakland, Ottawaw, Saginaw, St. Clair, Washtenaw.

## 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 IRAA 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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## Attachment 6

### Aerial Photographs



**Bull Corner**

2853 ORCHARD HWY

MANISTEE, MI 49660

Inquiry Number: 7816119.33

November 12, 2024

## The EDR Aerial Photo Decade Package



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# EDR Aerial Photo Decade Package

11/12/24

**Site Name:**

Bull Corner  
2853 ORCHARD HWY  
MANISTEE, MI 49660  
EDR Inquiry # 7816119.33

**Client Name:**

Gosling Czubak  
1280 Business Park Drive  
Traverse City, MI 49686  
Contact: Fern Sexton



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:**

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1938	1"=500'	Flight Date: July 18, 1938	USGS
1954	1"=500'	Flight Date: May 14, 1954	USGS
1965	1"=500'	Flight Date: August 14, 1965	USDA
1977	1"=500'	Flight Date: January 01, 1977	USGS
1986	1"=500'	Flight Date: June 03, 1986	USDA
1993	1"=500'	Acquisition Date: January 01, 1993	USGS/DOQQ
1998	1"=500'	Acquisition Date: January 01, 1998	USGS/DOQQ
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2020	1"=500'	Flight Year: 2020	USDA/NAIP

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INQUIRY # 7816119.33

YEAR: 1938

— = 500'





INQUIRY # 7816119.33

YEAR: 1954

— = 500'





INQUIRY # 7816119.33

YEAR: 1965

— = 500'





INQUIRY # 7816119.33

YEAR: 1977

500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 7816119.33

YEAR: 1986

— = 500'





INQUIRY # 7816119.33

YEAR: 1993

— = 500'





INQUIRY # 7816119.33

YEAR: 1998

— = 500'





INQUIRY # 7816119.33

YEAR: 2006

— = 500'





INQUIRY # 7816119.33

YEAR: 2009

— = 500'





INQUIRY # 7816119.33

YEAR: 2012

— = 500'





INQUIRY # 7816119.33

YEAR: 2016

— = 500'





INQUIRY #: 7816119.33

YEAR: 2020


— = 500'



## Attachment 7

### Sanborn Fire Insurance Maps





Bull Corner  
2853 ORCHARD HWY  
MANISTEE, MI 49660

Inquiry Number: 7816119.31

November 07, 2024

## Certified Sanborn® Map Report



6 Armstrong Road, 4th floor  
Shelton, CT 06484  
Toll Free: 800.352.0050  
[www.edrnet.com](http://www.edrnet.com)

# Certified Sanborn® Map Report

11/07/24

**Site Name:**

Bull Corner  
2853 ORCHARD HWY  
MANISTEE, MI 49660  
EDR Inquiry # 7816119.31

**Client Name:**

Gosling Czubak  
1280 Business Park Drive  
Traverse City, MI 49686  
Contact: Fern Sexton



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Gosling Czubak 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](http://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 #** 129F-4E3C-80A5

**PO #** NA

**Project** 240218

### 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 #: 129F-4E3C-80A5

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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## Attachment 8

### Property Tax Records



# Parcel Number 07-127-005-00

## Manistee County Parcel Information for 2024 Assessment Year

Manistee Township, Manistee County

**Owner Name(s):** LITTLE RIVER BAND OF OTTAWA INDIANS

**Owner Address:** 2608 GOVERNMENT CENTER DR  
MANISTEE, MI 49660

**Parcel Address:** 2853 ORCHARD HWY  
MANISTEE, MI 49660

## Property Information

**Property Class:** 401 - RESIDENTIAL IMPROVED

**School District:** 51070 - MANISTEE

**Current Homestead %:** 0%

**Current Assessment:** \$152,300

**Current S.E.V.:** \$152,300

**Current Taxable Value:** \$112,140

**Last Year's  
Assessment:** \$106,800

**Last Year's S.E.V.:** \$106,800

**Last Year's Taxable  
Value:** \$106,800

## Property Sale Information

Sale Date	Sale Amount
8/1/2006	\$900,000.00

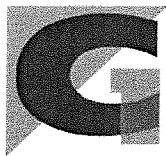
## Tax Roll Description

W 1/2 NW 1/4 LYING N OF US-31, EXC COM AT NE COR THEREOF, TH S 327.02 FT TO POB TH S 296 FT, TH N 39 DEG 40 MIN W 223.32 FT, TH N 49 DEG 57 MIN 09 SEC E 192.79 FT TO POB, ALSO EXC US 31 HWY R/W PER L 248 P18. 37.62 A\*M/L. SEC 27 T22N R16W

## Attachment 9

### Owner Questionnaire





## ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

Site Name:	Bull Corner
Site Address:	Parcel 51- 07-127-005-00 Manistee Township, Michigan
Site City/State:	
GCES Project No.:	240218

*This questionnaire should be completed by the current owner of the property; any commercial occupant of the property (residential occupants do not need to be asked the questions); and any other occupant likely to be using, treating, generating, storing or disposing of hazardous substances or petroleum products on or from the property.*

*Answer all questions to the best of the respondent's actual knowledge and in good faith. All questions should be answered as indicated in the form. Preparer represents that to the best of his/her knowledge the statements and facts are true and correct and to the best of his/her actual knowledge no material facts have been suppressed or misstated.*

**The OWNER portion of the questionnaire was completed by:**

Owner Name:	David Karst
Owner Signature	
Owner Phone Number:	231-299-4414
Date:	11/15/2024

**The OCCUPANT portion of the questionnaire was completed by:**

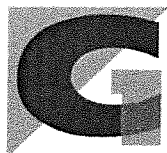
Occupant Name:	LRBOI/Same as owner
Occupant Signature	
Occupant Phone Number:	
Date:	11/15/2024

**The SITE VISIT portion of the questionnaire was completed by:**

Name:	Fern Sexton
Title:	Project Scientist
Firm:	Gosling Czubak Engineering Sciences, Inc.
Phone Number:	231-946-9191
Date:	12/31/2024
Relationship to Site:	Consultant
Relationship to User:	Consultant

QUESTION	OWNER	OCCUPANT	OBSERVED DURING SITE VISIT
1. Is the <u>property</u> or any adjoining property used for an industrial use?	Yes _____ No _____ Unknown x _____	Yes _____ No _____ Unknown x _____	Yes _____ No <u>x</u> _____ Unknown _____

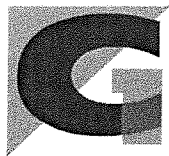
**\*\* Provide an explanation in the Comments Section for all questions answered YES\*\***



## ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

QUESTION	OWNER	OCCUPANT	OBSERVED DURING SITE VISIT
2. To the best of your knowledge, <u>has</u> the <u>property</u> or any <u>adjoining property</u> been used for an industrial use in the past?	Yes _____ No _____ Unknown _____ _____ x	Yes _____ No _____ Unknown x _____	Yes _____ No _____ Unknown <u>X</u>
3. Is the <u>property</u> or any <u>adjoining property</u> used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes _____ No _____ Unknown _____ _____ x	Yes _____ No _____ Unknown x _____	Yes <u>X</u> _____ No _____ Unknown _____
4. To the best of your knowledge <u>has</u> the <u>property</u> or any <u>adjoining property</u> been used as a gasoline station, motor repair facility, commercial printing facility, dry cleaners, photo developing laboratory, junkyard or landfill, or as a waste treatment, storage, disposal, processing, or recycling facility?	Yes _____ No _____ Unknown x _____	Yes _____ No _____ Unknown x _____	Yes <u>X</u> _____ No _____ Unknown _____
5. Are there currently, or to the best of your knowledge have there been previously, any damaged or discarded automobile or industrial batteries, or pesticides, paints, or other chemicals in individual containers of greater than 5 gal (19 L) in volume or 50 gal (190 L) in the aggregate, stored on or used at the <u>property</u> or at the facility?	Yes <u>x</u> _____ No _____ Unknown _____	Yes _____ x No _____ Unknown _____	Yes <u>X</u> _____ No _____ Unknown _____
6. Are there currently, or to the best of your knowledge have there been previously, any industrial <u>drums</u> (typically 55 gal [208 L]) or sacks of chemicals located on the property or at the facility?	Yes _____ _____ x No _____ Unknown _____	Yes <u>x</u> _____ No _____ Unknown _____	Yes <u>X</u> _____ No _____ Unknown _____
7. Has <u>fill dirt</u> been brought onto the property that originated from a contaminated site or that is of an unknown origin?	Yes _____ No _____ Unknown x _____	Yes _____ No _____ Unknown _____ x	Yes _____ No _____ Unknown <u>X</u>

**\*\* Provide an explanation in the Comments Section for all questions answered YES\*\***



## ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

QUESTION	OWNER	OCCUPANT	OBSERVED DURING SITE VISIT
8. Are there currently, or to the best of your knowledge have there been previously, any <i>pits, ponds, or lagoons</i> located on the <i>property</i> in connection with waste treatment or waste disposal?	Yes _____ No _____ Unknown x_____	Yes _____ No _____ Unknown x_____	Yes _____ No _____ Unknown <u>X</u>
9. Is there currently, or to the best of your knowledge have there been previously, any stained soil on the <i>property</i> ?	Yes _____ No _____ Unknown _____ x	Yes _____ No _____ Unknown x_____	Yes <u>X</u> _____ No _____ Unknown _____
10. Are there currently, or to the best of your knowledge have there been previously, any registered or unregistered storage tanks (above or underground) located on the <i>property</i> ?	Yes _____ No _____ Unknown _____ x	Yes _____ No _____ Unknown x_____	Yes <u>X</u> _____ No _____ Unknown _____
11. Are there currently, or to the best of your knowledge have there been previously, any vent pipes, fill pipes, or access ways indicating a fill pipe protruding from the ground on the <i>property</i> adjacent to any structure located on the <i>property</i> ?	Yes _____ No _____ Unknown x_____	Yes _____ No _____ Unknown x_____	Yes <u>X</u> _____ No _____ Unknown _____
12. Are there currently, or to the best of your knowledge have there been previously, any flooring, drains, or walls located within the facility that are stained by substances other than water or are emitting foul odors?	Yes _____ No _____ Unknown x_____	Yes _____ No _____ Unknown _____x	Yes _____ No _____ Unknown <u>X</u>
13. If the <i>property</i> is served by a private well or non-public water system, have contaminants been identified in the well or system that exceed guidelines applicable to the water system or has the well been designated contaminated by any government environmental/health agency?	Yes _____ No _____ Unknown _____ x N/A_____	Yes _____ No _____ Unknown x_____ N/A_____	Yes _____ No _____ Unknown <u>X</u> _____ N/A_____

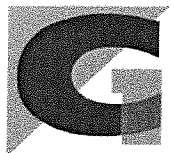
**\*\* Provide an explanation in the Comments Section for all questions answered YES\*\***



## ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

	QUESTION	OWNER	OCCUPANT	OBSERVED DURING SITE VISIT
14.	Does the <i>owner</i> or <i>occupant</i> of the <i>property</i> have any knowledge of <i>environmental liens</i> or governmental notification relating to the past or recurrent violations of environmental laws with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes _____ No <u>  x  </u> _____ Unknown _____	Yes _____ No <u>          </u> x _____ Unknown _____	Yes _____ No <u>  X  </u> _____ Unknown _____
15.	Has the <i>owner</i> or <i>occupant</i> of the <i>property</i> been informed of the past or current existence of <i>hazardous substances</i> or petroleum products or environmental violations with respect to the <i>property</i> or any facility located on the <i>property</i> ?	Yes _____ No _____ Unknown <u>          </u> x	Yes _____ No _____ Unknown x _____	Yes _____ No _____ Unknown <u>  X  </u> _____
16.	Does the <i>owner</i> or <i>occupant</i> of the <i>property</i> have any knowledge of any environmental site assessment of the <i>property</i> or facility that indicated the presence of <i>hazardous substances</i> or petroleum products on, or contamination of the <i>property</i> , or recommend further assessment of the <i>property</i> ?	Yes _____ No _____ Unknown <u>          </u> x	Yes _____ No _____ Unknown x _____	Yes <u>      </u> X _____ No _____ Unknown _____
17.	Does the <i>owner</i> or <i>occupant</i> of the <i>property</i> know of any past, threatened, or pending lawsuits or administrative proceedings concerning a release or threatened release of any <i>hazardous substance</i> or petroleum products involving the <i>property</i> by any owner or occupant of the <i>property</i> ?	Yes _____ No <u>  x  </u> _____ Unknown _____	Yes _____ No <u>  x  </u> _____ Unknown _____	Yes _____ No <u>      </u> X _____ Unknown _____
18.	Does the <i>property</i> discharge wastewater on or adjacent to the <i>property</i> , other than stormwater into a sanitary sewer system?	Yes _____ No <u>  x  </u> _____ Unknown _____	Yes _____ No <u>  x  </u> _____ Unknown _____	Yes _____ No _____ Unknown <u>  x  </u> _____

**\*\* Provide an explanation in the Comments Section for all questions answered YES\*\***



## ENVIRONMENTAL ASSESSMENT QUESTIONNAIRE

QUESTION	OWNER	OCCUPANT	OBSERVED DURING SITE VISIT
19. To the best of your knowledge, have any <i>hazardous substances</i> or <i>petroleum products</i> , unidentified waste materials, tires, automotive or industrial batteries or any other waste materials been dumped above grade, buried and/or burned on the <i>property</i> ?	Yes _____ No _____ Unknown _____ x	Yes _____ No _____ Unknown x_____	Yes _____x No _____ Unknown _____
20. Is there a transformer, capacitor, or any hydraulic equipment for which there are any records indicating the presence of PCB's on the <i>property</i> ?	Yes _____ No _____ Unknown x_____	Yes _____ No _____ Unknown _____x	Yes _____ No _____ Unknown _____x

Comments: This was an orchard from approximately 1910 to 1990. I believe that there are metal contaminants associated with the Orchard. There is also a SFR and Migrant housing on the property that have been abandoned. The SFR was built before 1978 so this may have lead and asbestos.

**\*\* Provide an explanation in the Comments Section for all questions answered YES\*\***

