Appendix A – ATCT Site Photos

Photo 1. View from the southwestern corner of the proposed ATCT site, facing northeast

Photo 2. View from the northwestern corner of the proposed ATCT site, facing southeast

Photo 3. View from the northeastern corner of the proposed ATCT site, facing southwest

Photo 4. View of artificial field drainage channel in the center of the proposed ATCT site, facing southwest

Photo 5. View from the southeastern corner of the proposed ATCT site, facing north

Photo 6. View along the southern border of the proposed ATCT site, facing northwest

Photo 7. View of the current ATCT from the southwestern corner of the Archaeological APE, facing west

Appendix B – ATCT Site Alternatives Phase I ESA

Technical Conformance Statement: Phase I Environmental Site Assessments

Facility: *Proposed Airport Traffic Control Tower (ATCT) Sites A1 and A28 and Site B8*

Airport/Location: *Gerald R Ford International Airport (GRR)*

City/State: *Grand Rapids, Michigan*

Two Phase I Environmental Site Assessments (ESAs) for the siting of the proposed ATCT physically located at Gerald R Ford International Airport, Grand Rapids, Michigan, have been prepared in accordance with the requirements of FAA Order 6480.4B and have been reviewed according to the technical requirements of FAA Order 1050.19C.

Project Background Information:

The Grand Rapids Airport Authority proposed to replace the current FAA ATCT with a new in-kind facility. Per Reimbursable Agreement between the FAA and the Airport Authority, representatives of the FAA and the Grand Rapids Airport Authority are participating in activities to site the new ATCT at GRR with the FAA's Airport Facilities Terminal Integration Laboratory (AFTIL) in Atlantic City, New Jersey. The team followed FAA Order 6480.4B, *Air Traffic Control Tower Siting Process*, and AFTIL procedures to determine viable/preferred ATCT sites for a potential new ATCT at GRR. The siting team identified three potential sites on GRR for the proposed new ATCT that warranted further evaluation. Per Order 6480.4B, Phase I ESAs were prepared to evaluate these two ATCT sites for environmental liabilities.

Summary of Phase I ESA Findings:

Two Phase I ESAs were prepared to provide a systematic procedure to evaluate the subject properties (GRR ATCT Sites A1 and A28 and Site B58) for Recognized Environmental Conditions (RECs) and potential liability.

No RECs were identified at proposed Sites A1 and A28 or at Site B58. However, it should be noted that the consultant that elevated levels of lead have been previously identified in the groundwater in the local area. All of the requirements of FAA Order 6480.4B and FAA Order 1050.19C have been completed based on the findings in the Phase I ESAs and the recommendations and review of the Technical Reviewer.

Recommendation:

No known or suspected contamination were identified on the proposed locations identified as A1, A28 and B58. The consultant did identify that there might be elevated levels of dissolved lead in the ground water in the area. As such, any future construction should not be designed to use a local well for landscaping or potable water for any of the three sites.

If you have any questions, please contact Grant Hightower, Manager, AJW-2C16E, at (817) 222-4582, or Steven Myers, Environmental Protection Specialist, AJW-2C16E at (847) 294-7591.

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in Subpart 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

BLDI Environmental Engineering | *Working for you*

Phase I Environmental Site Assessment

For the Subject Property Located at:

Site A1 and A28 (5500 44th Street SE)
Cascade Charter Township, Michigan 49512

Presented to:

The United States Department of Transportation - Federal Aviation Administration
- Engineering Services | Great Lakes Regional Office
2300 Devon Avenue
Des Plaines, IL 60018

May 17, 2022

BLDI Project No.: 225360.01

Main Office: 150 Fountain Street NE, Grand Rapids, MI 49503 | 616.459.3737
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APPENDICES

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COMMON ACRONYMS

ACM ..... Asbestos Containing Material
AST ..... Aboveground Storage Tank
ASTM ..... American Society for Testing and Materials
AUL ..... Activity and Use Limitation
BER ..... Business Environmental Risk
BGS ..... Below Ground Surface
CERCLA ..... Comprehensive Environmental Response, Compensation, and Liability Act
CFR ..... Code of Federal Regulations
CREC ..... Controlled Recognized Environmental Condition
EGLE ..... Michigan Department of Environment, Great Lakes, and Energy
EPA ..... Environmental Protection Agency
HREC ..... Historical Recognized Environmental Condition
LARA ..... Michigan Department of Licensing and Regulatory Affairs
LUST ..... Leaking Underground Storage Tank
MCL ..... Maximum Contaminant Level
MSDS ..... Material Safety Data Sheet
OSHA ..... Occupational Safety and Health Administration
PCB ..... Polychlorinated Biphenyl
PNA ..... Polynuclear Aromatic Hydrocarbon
RCRA ..... Resource Conservation and Recovery Act
REC ..... Recognized Environmental Condition
SPCC ..... Spill Prevention, Control, and Countermeasure
TSCA ..... Toxic Substances Control Act
USGS ..... United States Geological Survey
UST ..... Underground Storage Tank
VOC ..... Volatile Organic Compound
WDS ..... Waste Data System

UNITS OF MEASURE

Sq ft or ft^2 ..... Square Feet
mg/kg ..... Milligrams per Kilogram
mg/l ..... Milligrams per Liter
ug/l ..... Micrograms per Liter
ppb ..... Parts per Billion
ppm ..... Parts per Million

SELECT DEFINITIONS

"Recognized Environmental Condition" (REC) is defined by ASTM Standard E 1527-21 as: The presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or(3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

"Controlled Recognized Environmental Condition" (CREC) is defined by ASTM Standard E 1527-21 as: A recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

"Historical Recognized Environmental Condition" (HREC) is defined by ASTM Standard E 1527-21 as: A previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

"Business Environmental Risk" (BER) is defined by ASTM Standard E 1527-21 as: A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

"Subject Property" is defined by ASTM Standard E1527-21 as: The property that is the subject of the environmental site assessment described in this practice.

"De Minimis Condition" is defined by ASTM Standard E1527-21 as: A condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

1.0 EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed to evaluate potential environmental issues and identify recognized environmental conditions (RECs) and/or business environmental risks (BERs) associated with the proposed new Airport Traffic Control Tower at Gerald R. Ford International Airport property located at Site A1 and A28 which is a portion of 5500 44th Street SE (parent parcel) in Cascade Charter Township, Kent County, Michigan (subject property). This report was completed in accordance with the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries (AAI) and guidance provided in the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process (ASTM E1527-21) and the U.S. Department of Transportation (US DOT) Federal Aviation Administration (FAA) National Policy Order 1050.19C.

Type of Condition	Issue Identified as Part of this Phase I ESA
De Minimis Condition	No
Significant Data Gap	No
Historical Recognized Environmental Condition (HREC)	No
Controlled Recognized Environmental Condition (CREC)	No
Business Environmental Risk (BER)	Yes
Recognized Environmental Condition (REC)	No
Additional Findings	Yes

Refer to Section 9.0 (Findings and Opinions) and Section 10.0 (Conclusions) for discussion of the conditions identified above. Discussion regarding any identified RECs, CRECs, and/or HRECs, as applicable, is provided in these sections.

2.0 INTRODUCTION

2.1 Purpose

This Phase I ESA was performed to identify RECs and BERs in connection with the subject property as referenced in the ASTM Standard E1527-21 for performing Phase I ESAs. In November 2021, a revised version of the ASTM standard, E1527-21, was published. This Phase I ESA conforms with the requirements of both ASTM E1527-13 and E1527-21.

The objective of this Phase I ESA was to conduct "all appropriate inquiries" into the prior ownership and use of the subject property for the purpose of identifying known or potential releases and threatened releases of hazardous substances and petroleum products on, at, in or to the subject property (RECs, CRECs, and/or HRECs), which enables a new purchaser to satisfy the due diligence qualification requirements for the innocent landowner, contiguous property owner or bona fide prospective purchaser defenses to liability under the federal Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA") as defined in 42 USC § 9601(35)(B), and under Part 201 of Michigan's Natural Resources and Environmental Protection

Act (NREPA) (MCL 324.20126 (1)(c) and 324.20126(3)(h)) and under Part 213 of Michigan's NREPA (MCL 324.21323a(1)(b)). The owner/operator may have due care/continuing obligations related to CERCLA and Part 201/213 liability protections.

2.2 Detailed Scope of Work

This report summarizes the findings of the Phase I ESA performed by BLDI. This work was performed by Rachel M. Kane and Ashley M. Plocharczyk in conjunction with, and under the supervision of, Sarah R. Jacobitz, EP. The results of this Phase I ESA are based on the scope of services outlined in the ASTM Standard Practice cited above and are consistent with the customary practice and standards of other qualified environmental professionals performing similar work in this area. In accordance with ASTM Standard E1527-21, the Phase I ESA consisted of the following four components:

- Records Review
- Site reconnaissance
- Interviews
- Evaluation and Preparation of Phase I ESA Report

Records Review included a review of federal, state, tribal, and local government records and historical sources to identify RECs and previous uses of the subject property and surrounding area to determine the likelihood that these past uses may have resulted in RECs on the subject property. The records review is summarized in Section 5.0 of this report.

The site reconnaissance included a visual and physical inspection of the subject property and limited visual observations of adjoining properties to identify RECs. No sampling or testing of any material was performed, unless otherwise noted. The site reconnaissance is summarized in Section 6.0 of this report.

Interviews were conducted with past owners, present owners, operators, and/or occupants, to the extent that they were identified, contacted, and responsive, to identify RECs. Select state and/or local agency officials were also interviewed. The objective of the interviews was to obtain information not otherwise available through other sources about current and historical property uses that may pose RECs. Information obtained during interviews is included in applicable sections of this report.

An evaluation of the findings and a formulation of opinions used to develop conclusions regarding the potential presence of RECs identified during the Phase I ESA are presented in Section 9.0 of this report. The conclusions identified based on the findings and opinions of the environmental professional are presented in Section 10.0. This report includes appropriate documentation to support the presented findings, opinions, and conclusions. The report includes those matters required in the report pursuant to various provisions of ASTM E 1527-21.

A consideration of "commonly known or reasonably ascertainable information" about the subject property was performed as part of the Phase I ESA as provided by the ASTM E 1527-21 standard.

Non-scope tasks performed during this Phase I ESA were:

- Visual reconnaissance for asbestos-containing materials
- Assessment of the potential for the presence of radon
- Visual reconnaissance for the presence of lead-based paint
- Assessment of the potential for lead in drinking water
- Visual reconnaissance for potential wetlands
- Visual reconnaissance for microbial growth and moisture intrusion
- Likely presence of substances not defined as a hazardous substance unless or until such substances are classified as a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substance (i.e., per- and polyfluoroalkyl substances (PFAS/PFOA))

Refer to Section 12.0 of this Phase I ESA for discussion regarding these items.

2.3 Significant Assumptions

Significant assumptions made to complete this Phase I ESA include:

- Local groundwater flow follows topography, unless otherwise noted. Use of State groundwater mapping databases may be used where available to supplement groundwater flow assessment. Physical verification of the presence and/or direction of groundwater flow is beyond the scope of this Phase I ESA, and as such, was not performed.

- The information provided by the regulatory database provider (e.g., Environmental Database Reports (EDR)) is assumed to be an accurate and complete representative summary of the information contained in the referenced regulatory agency records, except when such information is obviously contradicted by other data.

- The information provided by any and all interviewees is assumed to be accurate and reliable.

- The opinions and conclusions presented in this report were based on the current configuration and use of the subject property, unless noted otherwise.

2.4 Limitations and Exceptions

During the performance of this Phase I ESA, no limiting conditions or exceptions which would be expected to materially affect the results of this Phase I ESA were encountered, unless otherwise expressly noted in this report.

2.5 Special Terms and Conditions

As is the case with any investigation of limited scope, site conditions may vary from those observed and witnessed on the date of the site reconnaissance/walk-through survey. The possibility of the discovery of the presence of hazardous substances that are not anticipated and/or were neither witnessed nor identified on the date of the site reconnaissance/walk-through survey cannot be completely eliminated. BLDI cannot offer any form of warranty and/or guarantee that the subject property does not contain hazardous substances and/or conditions per the results of performing this ESA.

No special contractual terms or conditions exist between US DOT - FAA - Engineering Services | Great Lakes Regional Office (the Client) and BLDI.

2.6 Reliance

The findings and conclusions of this Phase I ESA may be relied upon by the Client. Reliance upon this report by any other parties is unauthorized unless written permission is obtained from the Client and BLDI.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The subject property is a portion of the property located at 5500 44th Street SE in Cascade Charter Township, Kent County, Michigan. The subject property consists of approximately 3.3-acres out of a total of an approximately 2,313.35-acre parcel (portion of parcel number: 41-19-20-300-020) centered at Latitude 42°53'12.00"N, Longitude 85°30'44.70"W and located west of Air Cargo Dr SE and east of the end of Cassard Lane. A Subject Property Location Map (Figure 1) and a Subject Property Layout Map (Figure 2) are presented in Appendix A. The legal description of the subject property is presented in Appendix B.

3.2 Subject Property and Vicinity General Characteristics

The subject property is located in an area of commercial land use.

3.3 Current and Historic Uses of the Subject Property

The subject property is currently a portion of the Gerald R. Ford International Airport. Chain-link fencing traverses the center of the subject property. The subject property is vegetated (i.e. maintained lawn) and not utilized for any specific purpose.

Please refer to Section 5.4 for information on the historical use of the subject property.

3.4 Description of Structures and Other Improvements on the Subject Property

3.4.1 Existing Structures

There are no current structures present on the subject property.

Refer to Section 6.1 and Section 8.0 for further information regarding any limiting conditions encountered during the site reconnaissance.

Photographs of the subject property are presented in Appendix C.

3.4.2 Existing Roads

The subject property is located west of Air Cargo Dr SE and east of the end of Cassard Lane. An airport access road is located east and south of the subject property.

3.4.3 Relevant Utilities and Municipal Services

BLDI identified the type and supplier of utilities provided to the subject property. These services are described in the following table:

Utility/Service	Connection Date	Comments/Historical Services
Heating Fuel	Not applicable	The subject property is not currently connected to natural gas for heating*
Potable Water	Not applicable	The subject property is not currently connected to the municipal water supply and/or a private drinking water well*
Sanitary Waste	Not applicable	The subject property is not currently connected to the municipal sanitary sewer system and/or an on-site septic system*

* Utilities are available in the area of the subject property

Based on a review of historical data, there appears to have been no previous buildings requiring the use of utilities or municipal services on the subject property since at least 1938. There are no records of previously installed/utilized heating fuel, potable water, and/or sanitary waste utilized by and/or located on the subject property. According to the representative of the subject property owner, Michelle Baker, a duct containing fiber-optic communications cables for airport purposes traverse the subject property.

3.5 Current Uses of the Adjoining Properties

Direction from Subject Property	Description
North	Gerald R. Ford International Airport
East	Gerald R. Ford International Airport
South	Gerald R. Ford International Airport

Direction from Subject Property	Description
West	Gerald R. Ford International Airport Tenant hangar extension (under construction) Airport operations center (under construction)

A visual reconnaissance of these adjoining properties was performed at the time of the site reconnaissance. The adjoining properties were inspected to the extent possible to determine if their uses may have resulted in releases of hazardous substances/petroleum products that could affect the subject property. No staining, dumping, or other indications of significant environmental concern that could impact the subject property were observed on the adjoining properties during the visual reconnaissance. Please refer to Sections 5.2 and/or 5.3.1 for more information on any adjoining properties that may have the potential to impact the subject property. The adjoining properties are also identified on Figure 2 within Appendix A of this Phase I ESA.

4.0 USER PROVIDED INFORMATION

BLDI contacted the User to determine the status of potential environmental liens, activity and use limitations, specialized knowledge of environmental conditions, and commonly known or reasonably ascertainable information related to the subject property. The *User Questionnaire for Phase One Additional Inquiries* (user questionnaire) was completed by Steven Myers, Environmental Protection Specialist of US DOT – FAA (User) on April 14, 2022. A copy of the user questionnaire is included in Appendix F. Information provided to BLDI is described below.

- The User is not aware of any environmental issues related to the subject property.
- The User has not received or reviewed any title records for activity and use limitations (AULs), including the presence of environmental liens for the subject property. However, no environmental agency activity or action to indicate the presence of a lien on the subject property was identified in other sources reviewed by BLDI during this Phase I ESA.
- The User has indicated that the subject property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.
- The User stated that they have specialized knowledge or experience related to the subject property or nearby property. The User did not provide additional information.
- The User stated the subject property is undeveloped airport property and has been utilized as agricultural land or as undeveloped airport property since the 1960's.
- The User stated that the FAA is unaware of any past or present chemical releases, spills, environmental cleanup, or any chemical storage occurring on the subject property.

5.0 RECORDS REVIEW

5.1 Physical Setting Sources

The following sources were used to provide information on the physical setting of the subject property:

- USGS Topographic Map – Grand Rapids East, Michigan 7.5-Minute Quadrangle
- The National Resource Conservation Service Web Soil Survey
- Michigan Department of Environment, Great Lakes, and Energy – GeoWebFace

5.1.1 Regional Geology

According to GeoWebFace, the uppermost bedrock beneath the subject property is identified as the Mississippian age Michigan Formation. This formation consists of units of gypsum, dolomite, and shale that were deposited in a shallow, nearshore marine environment.

According to GeoWebFace, the surficial geology in the area of the subject property consists of end moraines of fine-textured till. This non-sorted glacial debris is typically gray, grayish brown or reddish brown, clay to silty clay loam that alternates with units of variable amounts of cobbles and boulders. These deposits occur in narrow linear belts of hummocky relief marking the former stillstands of ice-sheet margins. It includes small areas of ground moraine as well as outwash. The thickness is somewhat greater than adjacent ground moraines.

5.1.2 Topographic Features

The elevation of the subject property is approximately 780 to 790 feet above mean sea level according to the U.S. Geological Survey (USGS) topographic map of the Grand Rapids East, Michigan 7.5 Minute Quadrangle. The topographic gradient of the subject property is generally flat.

5.1.3 Soils/Hydrogeology

Soils on the subject property are generally identified by the USDA Natural Resources Conservation Service as blount loam.

The nearest body of surface water is the Thornapple River located approximately 1.2 miles to the east-northeast of the subject property. Based on the information obtained from a review of the area topography and local surface water features, general groundwater flow is anticipated to flow to the east and discharge to Thornapple River.

5.2 Standard Environmental Record Sources

A database search for federal and state agency records was performed by EDR on April 19, 2022 to determine whether there are any agency files describing on-site and/or off-site sources of

contamination which may have impacted or could potentially impact the subject property. The results of the database search are reported in Appendix D.

The EDR report is a radius search that reviews standard environmental record sources and focuses on sites within specified search distances, which may adversely impact the subject property. The records search, as defined by ASTM E1527-21, includes sites identified from sources within the designated distances from the subject property. The distances searched for each record source is specified on the EDR report in Appendix D. Several listings of environmental concern across four properties were identified within the default search radii.

The subject property[1] is not listed by the databases searched by EDR.

The other mapped sites identified as having the potential to have a negative environmental impact on the subject property are summarized in the following table. Note that BLDI requested to review the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and Department of Licensing and Regulatory Affairs (LARA) files for the subject property and several adjoining/nearby sites of potential concern via Freedom of Information Act (FOIA).

Name(s) of Site/Address	Type of Site*	Distance from Subject Property	Rationale	Impact on Subject Property?
Gerald R. Ford International Airport (GFIA) Grand Rapids, Kent County**** 5500 44th Street SE	UST, ERNS, LUST, INVENTORY, SPILLS, BEA, Financial Assurance, RGA LUST, RCRA-VSQG, RCRA NonGen, NLR, ICISFINDS, ECHO, AIRS, WDS, PFAS, HMIRS, AUL, PRP, NPDES	Adjoining property (#1 on Figure 2)	• Based upon review of EGLE and LARA files, these listings appear to be outside of VEC and do not appear to represent a significant environmental concern to the subject property • Side/up-gradient (with respect to the anticipated easterly groundwater flow direction**) to the subject property and outside of the Vapor Encroachment Condition (VEC) screening area*** to the subject property; no indication of hazardous substances and/or petroleum products migrating off-site towards the subject property	Unlikely

[1] Although the parcel which the subject property is a part of (5500 44th Street) is listed in the database, none of the listings are applicable to the subject property itself.

Name(s) of Site/Address	Type of Site*	Distance from Subject Property	Rationale	Impact on Subject Property?
Avflight Grand Rapids Corporation 4211 Cassard Lane SE	INVENTORY; BEA	Approx. 265 ft west of the subject property (#1 in Figure 2)	Please refer to Section 5.3.1	Unlikely

* See EDR Database in Appendix D for definitions of the types of sites.
**Anticipated groundwater flow direction obtained from a review of area topographic maps and/or environmental reports prepared for adjoining/nearby properties
*** Screened using ASTM E2600 default screening criteria.
**** Gerald R. Ford International Airport (GFIA) Grand Rapids – including owner/occupants of individual hangers, storefronts, car rentals, etc. located within the Gerald R Ford International Airport property.

Based on a review of available information, the other geocoded sites of environmental concern identified by the database report are not likely to have a negative impact on the subject property.

A total of one other site was listed on the database report as " orphan" sites. These are sites for which there is insufficient address information for plotting them on computer-generated maps. Based on general knowledge and familiarity with the nearby geographical area, the unplottable sites are not located within the default search radii of the subject property or are otherwise unlikely to affect the subject property.

5.3 Additional Environmental Records Sources

5.3.1 Regulatory Agency File and Records Review

A review of the EGLE database of Part 201 enforcement liens was conducted regarding the presence of environmental liens on the subject property. According to the EGLE database, there are no perfected environmental liens on the subject property.

BLDI conducted a review of the EGLE and Department of Licensing and Regulatory Affairs (LARA) files for the subject property and adjoining/nearby sites of potential concern under the Freedom of Information Act (FOIA). The information obtained from this file review that is pertinent to the possibility for impact to migrate off-site is presented below. Although the parcel which the subject property is a part of (5500 44th Street) is listed in the database, none of the listings are applicable to the subject property itself.

Avflight Grand Rapids Corporation, 4211 Cassard Lane SE

Referenced property	4211 Cassard Lane, Cascade Charter Township, MI
Direction and distance from subject property*	Approx. 265 ft East (property #1 on Figure 2 within Appendix A)
Limited Background	• A BEA was submitted for the property in October 2021 • No RECs were identified for the property in a Phase I ESA (May 2021) • Phase II was conducted in September 2021 to assess subsurface conditions. It included 5 borings to collect soil and groundwater samples. • Historically farmland and vacant airport maintained land.
Referenced Property Screening Data	
Soil impact on referenced property	Select target analytes detected in the soil samples collected at the site at concentrations exceeding their respective laboratory detection limits but were below applicable state criteria.
Soil Type(s)	Generally clay soils below 0 to 4 feet of sand
Groundwater impact on referenced property	Lead was detected in two groundwater samples collected at concentrations exceeding applicable state criteria
Depth to groundwater	From two (2) feet below ground surface (bgs) to 10.5 feet bgs
Groundwater flow direction/toward/away from the subject property	No information provided in file; however, based on topography groundwater is likely to flow to the east toward the subject property
Potential for Vapor Encroachment Condition (VEC)**	Unlikely: property is located within VEC, however detected analytes are below Volatilization to Indoor Air Protection (VIAP) screening levels.

* According to measurements from EDR
** Screened using ASTM E2600 default screening criteria

Please refer to Section 9.0 for additional information on BLDI's opinion regarding these findings and their potential to impact the subject property.

5.3.2 Previous Environmental Reports

A Stormwater Pollution Prevention Plan (SWPPP) and a Spill Prevention, Control and Countermeasures / Pollution Incident Prevention Plan (SPCC/PIPP) were provided to BLDI by the User. Information obtained from this file review is presented below:

- The SWPPP was prepared for the GFIA in Grand Rapids, Michigan, and was developed to satisfy the requirements of Part I.A.13 of Michigan's National Pollutant Discharge Elimination System (NPDES) Permit No. MI0055735 (issued February 26, 2018, effective March 1, 2018) for stormwater discharges associated with industrial activity.

- Stormwater runoff from the eastern portion of the site which includes the subject property is collected in a network of catch basins, storm sewers and open ditch systems which are routed to a series of outfalls (i.e., Outfalls 001 through 005 and 011). These outfalls discharge either directly into the Thornapple River, or to unnamed tributaries, which enter the Thornapple River. With completion of the long-term stormwater/deicing management system in 2015, flow is now only routed to Outfall 001 (located approximately 0.85 miles north of the subject property) during the non-deicing season when conditions allow; otherwise flow is routed to Outfall 011 (located approximately 1.15 miles to the east of the subject property).
- The SPCC/PIPP plan was developed for the storage and handling of oil and other polluting materials operated and maintained by GFIA.
- All oil storage by GFIA is stored on the airfield side of the airport (western portion of the site) (with the nearest storage location being located approximately 0.5 miles west of the subject property at building #205).

5.3.3 Health Department Information

BLDI requested to review local health department files for the subject property. Information obtained from this file review is presented below:

- In 1990, documentation of a land application of up to approximately 3,414,000 gallons of diluted sludge from 4 sanitary sewage lagoons was approved. The location in which the land application was to be performed was not included in the documentation; however, no evidence that it was applied on or in the vicinity of the subject property was noted in historical sources. The former sanitary lagoons were located nearby to the west of the subject property.
- Information regarding the septic systems and drinking water wells installed on the GFIA property were not installed within the nearby vicinity of the subject property.
- Additional information included within the Kent County Health Department files were not pertinent to the subject property.

Documentation of the response from the local health department is presented in Appendix F. Please refer to Section 9.0 for additional information on BLDI's opinion regarding these findings and their potential to impact the subject property.

5.4 Historical Use Information on the Subject Property

Specific sources utilized during this Phase I ESA include:

- Cascade Charter Township Assessing Records
- Aerial Photographs
- Historical City Directories
- USGS Topographic Maps
- Interview with Ms. Michelle Baker (representative of the subject property owner)

Subject Property – Summary of Historic Use				
Period	**Aerial Photographs**	**Fire Insurance Maps**	**Topographic Maps**	**City Directories**
1900-1919	Not available	Not available	No significant features (1914)	Not available
1920-1939	Northernmost portion appears to be wooded, the rest appears to be farmland (1938).	Not available	Not available	Not available
1940-1949	Not available	Not available	Not available	Not available
1950-1959	Similar to 1938 but with a wooded strip on the eastern portion (1955).	Not available	Not available	No listing (1959)
1960-1969	Similar to 1955 (1965).	Not available	No significant features (1967)	No listing (1962, 1967)
1970-1979	Similar to 1965 (1974, 1978).	Not available	No significant features (1972)	No listing (1972, 1977)
1980-1989	Similar to 1978 (1981, 1987).	Not available	No significant features (1981)	No listing (1982, 1987)
1990-1999	Appears earth moving/development activities are happening over the entire area (1999).	Not available	Not available	No listing (1992, 1995)
2000-2009	Appears to be a maintained vegetated lot (2006); Similar to 2006, but a fence traverses the center. Similar to current configuration (2009).	Not available	Not available	No listing (2000, 2005)
2010-2019	Similar to 2009/current configuration (2012, 2016).	Not available	No significant features (2014, 2016, 2017, 2019)	No listing (2010, 2014, 2017)
2020-Current	Not available	Not available	Not available	Not available

No historical uses that indicate the potential for a release of hazardous substances and/or petroleum products were identified.

Information obtained from the sources identified above is presented in the following sections. Historical documentation is presented in Appendix E. Note: the subject property boundaries as shown on the historic documentation are approximate.

Data Failures:

- The inability to identify the historic use of the subject property back to the first developed use.

- A gap of greater than five years with no historical information, during which the use of the subject property changed was identified.

Refer to Section 8.0 for additional information on BLDI's opinion regarding the significance of these identified data failures.

5.4.1 Aerial Photographs

Pertinent observations obtained from the aerial photographs are as follows:

Year	Historical Uses of the Subject Property
1938	Northernmost portion appears to be wooded, the rest appears to be farmland
1955	Similar to 1938 but with a wooded strip on the eastern portion
1965	Similar to 1955
1974	Similar to 1965
1978	Similar to 1974
1981	Similar to 1978
1987	Similar to 1987
1999	Appears earth moving/development activities are happening over the entire area
2006	Appears to be a maintained vegetated lot
2009	Similar to 2006, but a fence traverses the center. Similar to current configuration.
2012	Similar to 2009/current configuration
2016	Similar to 2012/current configuration

Direction from Subject Property	Historic uses of Adjoining Properties
North	1938 to 1987: Wooded land followed by agricultural land
	1999: Earth moving/ development activities
	2006 to 2016: Maintained vegetated field
East	1938 to 1987: Agricultural land
	1999: Earth moving/ development activities
	2006 to 2016: Maintained vegetated land followed by an access road
South	1938 to 1987: Agricultural field
	1999: Earth moving/ development activities
	2006 to 2016: Access Road followed by maintained vegetated lawn and a runway
West	1938 to 1955: Agricultural field with a drainage ditch

Direction from Subject Property	Historic uses of Adjoining Properties
	1965 to 1987: Similar to 1955, but what appears to be sewage lagoons are present west of the drainage ditch
	1999: Earth moving/ development activities
	2006: Maintained lawn
	2009 to 2016: Maintained lawn followed by access road

An airport runway appears to have been located nearby to the south and west of the subject property between at least 1999 through 2016. No additional properties in the surrounding area are identified with the potential to have had an environmental impact on the subject property.

The historical information obtained from the aerial photographs is consistent with historical information obtained from other sources.

5.4.2 Historical Fire Insurance Maps

Historical fire insurance maps, also known as Sanborn maps, are detailed scaled drawings that show the location and use of building structures that have occupied a given area from as early as the late 1800s. These maps can provide information that is unavailable from other sources regarding the development and use of a given property. Due to the historically rural location of the subject property, no historical fire insurance maps were available for the subject property.

5.4.3 Subject Property Tax, Building and Zoning Department Records

BLDI requested to review assessing record files from the Cascade Charter Township for the subject property. According to the Cascade Charter Township, no records are on file for the subject property.

Documentation of the response from the Cascade Charter Township is presented in Appendix E.

5.4.4 Recorded Land Title Records

The User indicated that they have not received or reviewed any title records for AULs, including the presence of environmental liens for the subject property. However, the User indicated the following known knowledge of the AUL listed for the subject property as the following:

- The subject property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.

5.4.5 Local Street Directories

City directories were reviewed from 1959 to 2017 to determine the past occupants and uses of the subject property. No historical addresses were identified for the subject property

Pertinent observations from the city directories are as follows:

Direction from Subject Property	Historic uses of the Subject Property and Adjoining Properties
North, East, South and West: 5500 44th Street SE*	1959: Address not listed
	1962: Address not listed
	1967: Gerald R. Ford International Airport *
	1972: Gerald R. Ford International Airport *
	1977: Gerald R. Ford International Airport *
	1982: Gerald R. Ford International Airport *
	1987: Gerald R. Ford International Airport *
	1992: Gerald R. Ford International Airport *
	1995: Gerald R. Ford International Airport *
	2000: Address not listed
	2005: Gerald R. Ford International Airport *
	2010: Gerald R. Ford International Airport *
	2014: Gerald R. Ford International Airport *
	2017: Gerald R. Ford International Airport *

* The subject property is currently a portion of 5500 44th Street SE.
**Including owner/occupants of individual hangers, storefronts, car rentals, etc. located within the Gerald R Ford International Airport property.

An airport and individual owner/occupants including individual hangers and car rentals appear to have been located nearby to the subject property between at least 1967 through 2017. No additional properties in the surrounding area are identified as likely to have had an environmental impact on the subject property.

5.4.6 Topographic Maps

No significant features were identified on the subject property or adjoining properties based on a review of the historic topographic maps.

A drainage ditch is present west of the subject property from 2014 through 2019. Bodies of water, representing sewage lagoons, appear to have been located nearby to the west of the subject property between at least 1967 through 1982. In addition, an airport appears to have been located nearby to the south and west of the subject property between at least 2014 through 2019. No additional properties in the surrounding area are identified as have the potential to have had an environmental impact on the subject property.

The historical information obtained from the topographic maps is consistent with historical information obtained from other sources.

5.4.7 Other Historical Sources

No other historical information resources were utilized during the Phase I ESA.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

Reconnaissance Information	
BLDI Field Personnel:	Rachel M. Kane and Ashley M. Plocharczyk
Site Reconnaissance Date:	May 3, 2022
Weather Conditions:	Rainy, approximately 45˚F
Site Visit Guide	Ms. Michelle Baker, representative of the subject property owner

The site reconnaissance included the entire subject property. No limiting conditions were encountered during this Phase I ESA.

6.2 Subject Property Observations

Description	Observed On-Site	Relevant Section for Additional Discussion
UST(s)	No	Section 6.2.1
AST(s)	No	Section 6.2.2
Drums, Totes, and Intermediate Bulk Containers	No	Section 6.2.3
Other Hazardous Substances/Petroleum Products	No	Section 6.2.4
Hazardous Substances/Petroleum Products Not in Connection	No	Section 6.2.5
Unidentified Substance Containers/Abandoned Containers	No	Section 6.2.6
Staining	No	Section 6.2.7
Standing Surface Water and Pools/Sumps	No	Section 6.2.8
Strong, Pungent, or Noxious Odors	No	Section 6.2.9
Stressed Vegetation	No	Section 6.2.10
Polychlorinated Biphenyl (PCB) - Containing Items	No	Section 6.2.11
Drains, Sumps, Grit Traps, Oil/Water Separators	No	Section 6.2.12
Regulated Waste Management	No	Section 6.2.13
Recyclable Materials, Solid Waste Management	No	Section 6.2.14
Water/Wastewater	No	Section 6.2.15
Pits, Ponds, or Lagoons	No	Section 6.2.16
Wells	No	Section 6.2.17
Septic Systems or Cesspools	No	Section 6.2.18

Please refer to the appropriate sections below for additional information regarding the observations identified during the site reconnaissance. Please refer to Section 9.0 for a summary of the findings identified in the following sections.

6.2.1 Underground Storage Tanks (USTs)

No indications of USTs, such as vent pipes or fill ports, were observed on the subject property during the site reconnaissance. No records of UST installation or removal are on file with the LARA for the subject property.

6.2.2 Aboveground Storage Tanks (ASTs)

No evidence of current or previous ASTs, such as concrete pads, cradles, or piping, was observed on the subject property during the site reconnaissance.

6.2.3 Drums, Totes, and Intermediate Bulk Containers

No drums were observed on the subject property during the site reconnaissance.

6.2.4 Other Hazardous Substances and Petroleum Products

No hazardous substances and/or petroleum products were observed to be present on the subject property during the site reconnaissance.

6.2.5 Hazardous Substance and Petroleum Product Containers Not in Connection With Identified Uses

No hazardous substances and/or petroleum products not in connection with identified uses were observed to be present on the subject property during the site reconnaissance.

6.2.6 Unidentified Substance Containers, Abandoned Containers

No unidentified substance or abandoned containers were observed to be present on the subject property during the site reconnaissance.

6.2.7 Stained Soil or Pavement and Stains or Corrosion on Floors, Walls, and Ceilings

No stained or corroded soils or pavement/flooring, walls, or ceilings were observed to be present on the subject property during the site reconnaissance.

6.2.8 Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Substances

No standing surface water and/or pools or sumps containing liquids likely to be hazardous substances and/or petroleum products were observed on the subject property during the site reconnaissance.

6.2.9 Strong, Pungent, or Noxious Odors and Their Sources

No odors associated with hazardous substances and/or petroleum products use were observed on the subject property during the site reconnaissance.

6.2.10 Stressed Vegetation

No stressed vegetation indicative of a release of hazardous substances and/or petroleum products was observed to be present on the subject property during the site reconnaissance.

6.2.11 Polychlorinated Biphenyls (PCBs) Containing Items (hydraulic equipment, transformers, etc.)

No transformers, hydraulic equipment or other potential PCB containing equipment was observed on the subject property.

6.2.12 Drains, Sumps, Grit Traps, Oil/Water Separators

No floor drains, sumps, grit traps or oil/water separators were observed on the subject property during the site reconnaissance.

6.2.13 Regulated Waste Management

No hazardous/regulated waste is generated at the subject property. In addition, the subject property[2] is not listed on the environmental database or the EGLE Waste Data System (WDS)[3] as a generator of hazardous/regulated waste.

6.2.14 Recyclable Material, Solid Waste Management

No recyclable material and/or solid waste management was observed on the subject property during the site reconnaissance.

6.2.15 Water/Wastewater

No wastewater discharges are made at the subject property.

6.2.16 Pits, Ponds, or Lagoons

No pits, ponds, or lagoons associated with waste treatment or disposal were observed on the subject property during the site reconnaissance.

The subject property is currently maintained and operated by the GFIA. The GFIA has a Storm Water Pollution Prevention Plan (SWPPP) in place. Refer to Section 5.3.2 for additional information.

[2] Although the parcel which the subject property is a part of (5500 44th Street) is listed on the WDS, this listing is applicable to the subject property itself

[3] https://www.egle.state.mi.us/wdspi/AdvancedSearch.aspx

6.2.17 Wells

No wells were observed at the subject property during the site reconnaissance.

6.2.18 Septic Systems or Cesspools

No septic systems or cesspools were observed at the subject property during the site reconnaissance.

7.0 INTERVIEWS

7.1 Interview with Owner or Key Site Manager

The Key Site Manager of the subject property is Ms. Michelle Baker. Based on the interview with Ms. Michelle Baker (KSM) on May 3, 2022, the following information was obtained:

- The KSM indicated that the subject property has not been utilized for any specific purpose since the development of the airport.
- The KSM is aware of a former fire-fighting training area (FFTA) located northwest of the subject property. The KSM indicated that testing of aqueous film-forming foam (AFFF) containing PFAS at the FFTA at GFIA, the documentation indicates that such testing was conducted for an unknown amount of time and discontinued in the mid-1990's. All testing was performed in compliance with the Airport's federal and state obligations under Part-139.[4]
- The KSM indicated knowledge of an AUL listed for the subject property as the subject property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.
- The KSM was unaware of any potential or on-going enforcement actions related to any environmental issue at the subject property or nearby property. The KSM indicated that they had no knowledge of nor were they in receipt of any draft or final administrative orders of consent (i.e., consent order), tolling agreements or any other potential environmental enforcement action by any governmental entity.
- The KSM was unaware of any potential third-party actions related to any potential environmental issue for the subject property or nearby property.
- The KSM was unaware of any additional AUL on the subject property related to soil or groundwater, including institutional controls (e.g., restrictive covenant).
- The KSM was unaware of any past, current or future environmental issue(s) requiring response in compliance with the relevant federal, state or local environmental regulations.

Additional information obtained from Ms. Michelle Baker is presented in relevant sections throughout this report.

[4] Upon BLDIs review of the EGLE files provided, BLDI determined that the locations where AFFF were utilized on the GFIA property were determined to be outside of VEC and do not appear to represent a significant environmental concern to the subject property.

7.2 Interview with Local Government Officials

BLDI requested information from the Cascade Charter Township Fire Department regarding the subject property. The Cascade Charter Township Fire Department indicated they have no records of fires or hazardous material related incidents at the subject property due to the fact that the GFIA has its own fire department.

7.3 Interview with Others

No additional interviews were conducted as a part of this Phase I ESA.

8.0 Data Gaps

The fact that the first developed use of the subject property could not be identified is considered a data failure. The oldest reasonably ascertainable historical use information for the subject property that shows actual features of the subject property is the 1938 aerial photograph (please refer to Section 5.4.1). On this aerial photograph the subject property appears to be utilized for agricultural purposes. It is unlikely that the identification of uses of the subject property prior to those described by the oldest reasonably ascertainable historical use information (i.e., the 1938 aerial photograph) could result in the discovery of RECs. This interpretation is based on the fact that the area of the subject property was utilized for agricultural purposes and was not likely used for industrial purposes or for other uses that may have involved the use of hazardous material prior to this time. Therefore, this data failure is not considered a significant data gap.

A gap of greater than five years with no historical information, during which the use of the subject property changed, was identified. The subject property use changes and dates that fall under this data gap include:

- Agricultural use in 1987 to earth moving/developing land uses by 1999
- Earth moving/developing land use in 1999 to maintained vegetated land in 2006

It is unlikely that the identification of uses of the subject property in these greater than five-year gaps could result in the discovery of any RECs. This interpretation is based on the fact that it is unlikely that any commercial/industrial uses requiring significant quantities of hazardous substances and/or petroleum products would have been present or otherwise occurred on the subject property due to the short time-frame of this gap and the use of the subject property by 1981. Based on this information, this data failure is not considered to be a significant data gap.

9.0 Findings and Opinions

The following sections provide a summary of the findings identified during this Phase I ESA, as well as BLDI's opinion regarding both the potential impact of the identified findings on the subject property and the rationale for concluding that a condition is or is not currently a REC. An evaluation of the significance of any identified data gaps is provided in Section 8.0 above.

9.1 RECs

No findings were identified during the course of this Phase I ESA that support the identification of RECs at the subject property.

9.2 CRECs

No findings were identified during the course of this Phase I ESA that support the identification of CRECs at the subject property.

9.3 HRECs

No findings were identified during the course of this Phase I ESA that support the identification of an HREC for the subject property.

9.4 De minimis

No findings were identified during the course of this Phase I ESA that support the identification of de minimis conditions for the subject property.

9.5 Additional Findings

The following additional findings were identified during the course of this Phase I ESA, but do not support the identification of any RECs/CRECs, HRECs, or de minimis conditions at the subject property:

- Nearby/adjoining properties listed in the governmental records searched

Several nearby and/or adjoining properties were listed in the governmental database records searched and/or within the various historical sources reviewed as sites of potential environmental concern. Lead was detected in two groundwater samples collected at a nearby site (4211 Cassard Lane) at concentrations exceeding residential Part 201 GRCC for Drinking Water Criteria. However, the lead concentration in the groundwater sample collected closest to the western portion of the subject property was considerably lower therefore making it unlikely that there would be concentrations that would exceed criteria at the subject property. A review of the files and other available information for all other properties, with consideration to applicable screening distances, showed no evidence of hazardous substances and/or petroleum products that would have migrated or have the potential to migrate to the subject property. Therefore, no REC is identified based on these findings.

9.6 BERs

The following finding was identified during the course of this Phase I ESA that support the identification of a BER for the subject property:

- Wetlands identified on the northern portion of the subject property

A review of the EGLE Wetlands Map Viewer online wetlands map indicates the presence of a wetland area in the northern portion of the subject property. This wetland area occupies approximately 1.65 acres of the subject property. This wetland area is classified as a Lowland Hardwood wetland with the historical landcover identified as mixed conifer swamp. No wetlands were listed on the U.S. Fish and Wildlife National Wetlands Inventory map.

9.7 Significant Data Gaps

No findings were identified during the course of this Phase I ESA that support the identification of a significant data gap for the subject property.

9.8 Opinion Regarding Additional Assessment

It is BLDI's opinion that, as no RECs/CRECs were identified within this Phase I ESA, no additional assessment is necessary at this time.

As stated in Section 2.1, the owner/operator may have due care/continuing obligations related to CERCLA liability protections.

10.0 CONCLUSIONS

BLDI has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-21 for the property located at A1 and A28 which is a portion of 5500 44th Street SE (parent parcel) in Cascade Charter Township, Kent County, Michigan (subject property). Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report This assessment has revealed no RECs, CRECs, or significant data gaps in connection with the subject property.

11.0 DEVIATIONS

Any deletions or deviations or additions from this practice (if any) are listed individually.

12.0 ADDITIONAL SERVICES

Non-scope considerations to satisfy FAA standard include, but are not limited to: asbestos-containing materials; radon; lead-based paint; lead in drinking water; wetlands; and microbial growth/moisture intrusion. No implication is intended as to the relative importance of inquiry into such non-scope considerations.

BLDI advises users of this document who wish to obtain an evaluation of non-scope considerations to retain BLDI to investigate such issues.

12.1 Asbestos

Asbestos is a general name for a group of naturally-occurring minerals composed of small fibers and was commonly used in many building materials produced and utilized for fireproofing and insulation purposes. Asbestos-containing materials (ACMs) can be present in any building material, typically in buildings constructed prior to 1989. Because no buildings are currently or have historically been located on the subject property, it is unlikely that asbestos containing materials are present at the subject property.

12.2 Radon

Radon is a colorless, odorless, radioactive gas. It comes from the natural decay of uranium that is found in nearly all soils. It typically migrates through the soil to the air above and into buildings through cracks and openings in the foundation.

BLDI reviewed the USA EPA Map of Radon Zones which was developed using five factors to determine radon potential: indoor radon measurements, geology, aerial radioactivity, soil permeability, and foundation type. Radon potential assessment is based on geologic provinces. Geologic Provinces were adapted to county boundaries for the Map of Radon Zones. EPA's Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential. Based on this review, Kent County lies within Zone 2. Zone 2 are counties which have a predicted average indoor radon screening level less than 2 pCi/L; this zone is considered "low potential" of indoor radon. Please be aware that this information is based on samples that have been collected from across Kent County. No site-specific radon assessment was performed at the subject property during the course of this Phase I ESA. Based on this information, radon gas does not appear to present a concern at the subject property.

12.3 Lead-Based Paint

Because no buildings are currently or have historically been located on the subject property, it is unlikely that lead based paint is present at the subject property.

12.4 Lead in Drinking Water

Because no buildings are currently or have historically been located on the subject property, it is unlikely that lead in drinking water could be a concern at the subject property.

12.5 Wetlands

A review of the EGLE Wetlands Map Viewer online wetlands map indicates the presence of a wetland area in the northern portion of the subject property. This wetland area occupies approximately 1.65 acres of the subject property. This wetland area is classified as a Lowland Hardwood wetland with the historical landcover identified as mixed conifer swamp. No wetlands were listed on the U.S. Fish and Wildlife National Wetlands Inventory map.

12.6 Microbial Growth and Moisture Intrusion

Because no buildings are currently or have historically been located on the subject property, there is no potential for microbial growth or moisture intrusion at the subject property.

12.7 Likely Presence of Substances Not Defined as a CERCLA Hazardous Substance

No evidence of a release of any substance not defined as a CERCLA Hazardous Substance has been identified at the subject property during the development of this report.

13.0 REFERENCES

ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E-1527-21

ASTM International, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM Designation: E-2600-15

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA or Superfund), as amended by Superfund Amendments and Reauthorization Act of 1986 (SARA) and Small Business Liability Relief and Brownfields Revitalization Act of 2002 (Brownfield Amendments)

Environmental Database Reports, April 2022

EGLE Wetlands Map Viewer

Michigan Department of Environment, Great Lakes, and Energy – GeoWebFace (http://ww2.deq.state.mi.us/GeoWebFace/#DefaultZoom)

Michigan Department of Environment, Great Lakes, and Energy - MPART: PFAS Geographic Information System (https://egle.maps.arcgis.com/apps/webappviewer/index.html?id=bdec7880220d4ccf943aea13eba102db)

Part 201 of Michigan's NREPA

The National Resource Conservation Service Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/)

United States Environmental Protection Agency, Michigan Radon Program (http://www.epa.gov/radon/states/michigan.html#zone map)

United States Fish and Wildlife Service Online Wetlands Mapper (http://www.fws.gov/wetlands/Data/mapper.html)

United States Geological Survey Topographic Map, 7.5-minute series, *Grand Rapids East, Michigan Quadrangle,* scale 1:24,000, U.S. Geological Survey, Denver, Colorado

United States Geological Survey Topographic Map, 15-minute series, *Grand Rapids, Michigan Quadrangle,* scale 1:62,500, U.S. Geological Survey, Denver, Colorado

Agencies Contacted

Cascade Charter Township, Michigan

Assessor's Office
Building Department
Engineering Department
Fire Department

Kent County Health Department

Michigan Department of Environment, Great Lakes, and Energy

Michigan Department of Licensing and Regulatory Affairs

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This Phase I ESA documents the research and methods used by BLDI to obtain, identify, and evaluate information on the past and present conditions of the subject property located at A1 and A28 which is a portion of 5500 44th Street SE (parent parcel) in Cascade Charter Township, Kent County, Michigan.

BLDI performed this Phase I ESA in accordance with ASTM Standard Practice E1527-21 with the modifications outlined in the introduction of this report.

The site reconnaissance and interviews were conducted by Ashley M. Plocharczyk and Rachel M. Kane. Ms. Kane was also responsible for obtaining and reviewing historical use documentation, interpreting data, identifying RECs, and preparation of this Phase I ESA Report. All of the activities were performed in conjunction with and under the supervision or responsible charge of, Sarah R. Jacobitz, EP, the environmental professional assigned to this project.

I certify that I possess sufficient education, training, and relevant experience necessary to conduct the investigative and interpretive activities presented in the paragraph above in accordance with the ASTM E1527-21 standard and possess the ability to identify issues relevant to RECs in connection with the subject property.

Rachel Kane

Rachel M. Kane
Environmental Scientist

May 17, 2022
Date

I certify that the investigative and interpretive activities presented in the paragraph above were performed in conjunction with me and under my supervision or responsible charge. I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 C.F.R. § 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

Sarah R. Jacobitz, EP
Project Manager

May 17, 2022
Date

CGR
QA/QC

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Sarah Jacobitz holds a BS degree in Environmental Engineering from Michigan Technological University. She has performed a variety of sampling techniques in soil as well as surface water and groundwater systems. Ms. Jacobitz has also conducted investigations at leaking underground storage tank (LUST) sites. She has completed the OSHA 40-Hour HAZWOPER training course, the annual 8-Hour HAZWOPER refresher courses and is a licensed Asbestos Building Inspector. Ms. Jacobitz has over ten years of experience conducting Phase I and Phase II Environmental Site Assessments, Baseline Environmental Assessments, and Section 7a Due Care Plans. Based on her education, experience and training, Ms. Jacobitz meets the criteria for an Environmental Professional (EP) set forth in USEPA's "all appropriate inquiry rule."

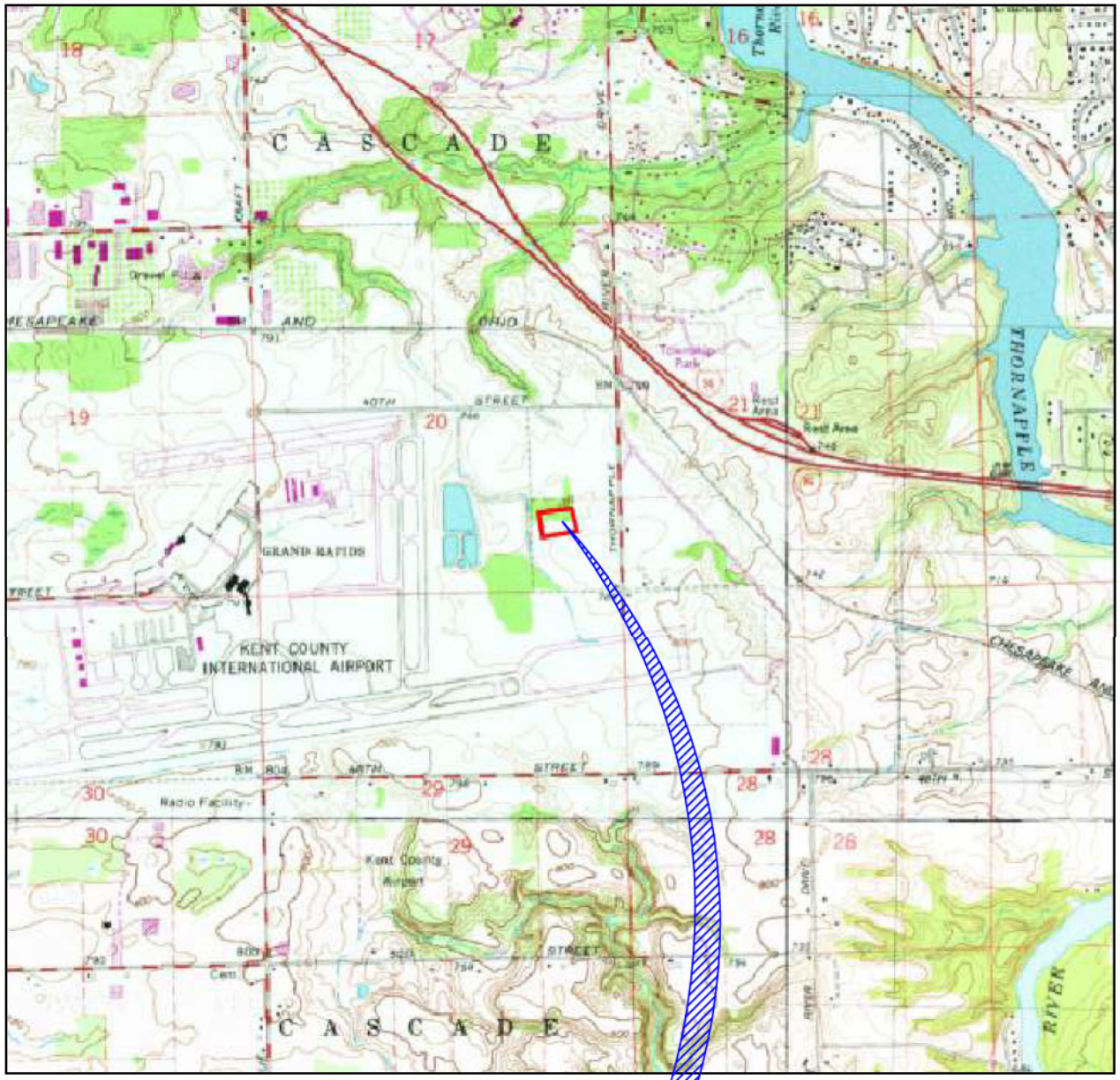
Ashley Plocharczyk holds a double Bachelor of Science degree in Environmental Science – Earth Science and Environmental Studies - Land Resources from the University of Michigan. They have received training in a variety of sampling techniques in soil as well as groundwater systems. Ms. Plocharczyk has received training in the ASTM Phase I Environmental Site Assessment training (ESA) (ASTM E1527), Phase II ESAs (ASTM E1903), Baseline Environmental Assessments, and Section 7a Due Care Plans. Ms. Plocharczyk has also completed the OSHA 40-hour HAZWOPER training course and the annual 8-Hour HAZWOPER refresher course.

Rachel Kane holds Bachelor of Science degrees in Environmental Science and Biology from the University of Wisconsin-Superior. She is receiving training to perform various sampling techniques in soil and groundwater systems. Additionally, Ms. Kane has completed the OSHA 40-Hour HAZWOPER training course.

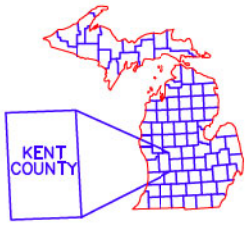
APPENDIX A

Subject Property Location Map and Subject Property Layout Map

BLDI
Environmental Engineering



VS



Subject Property

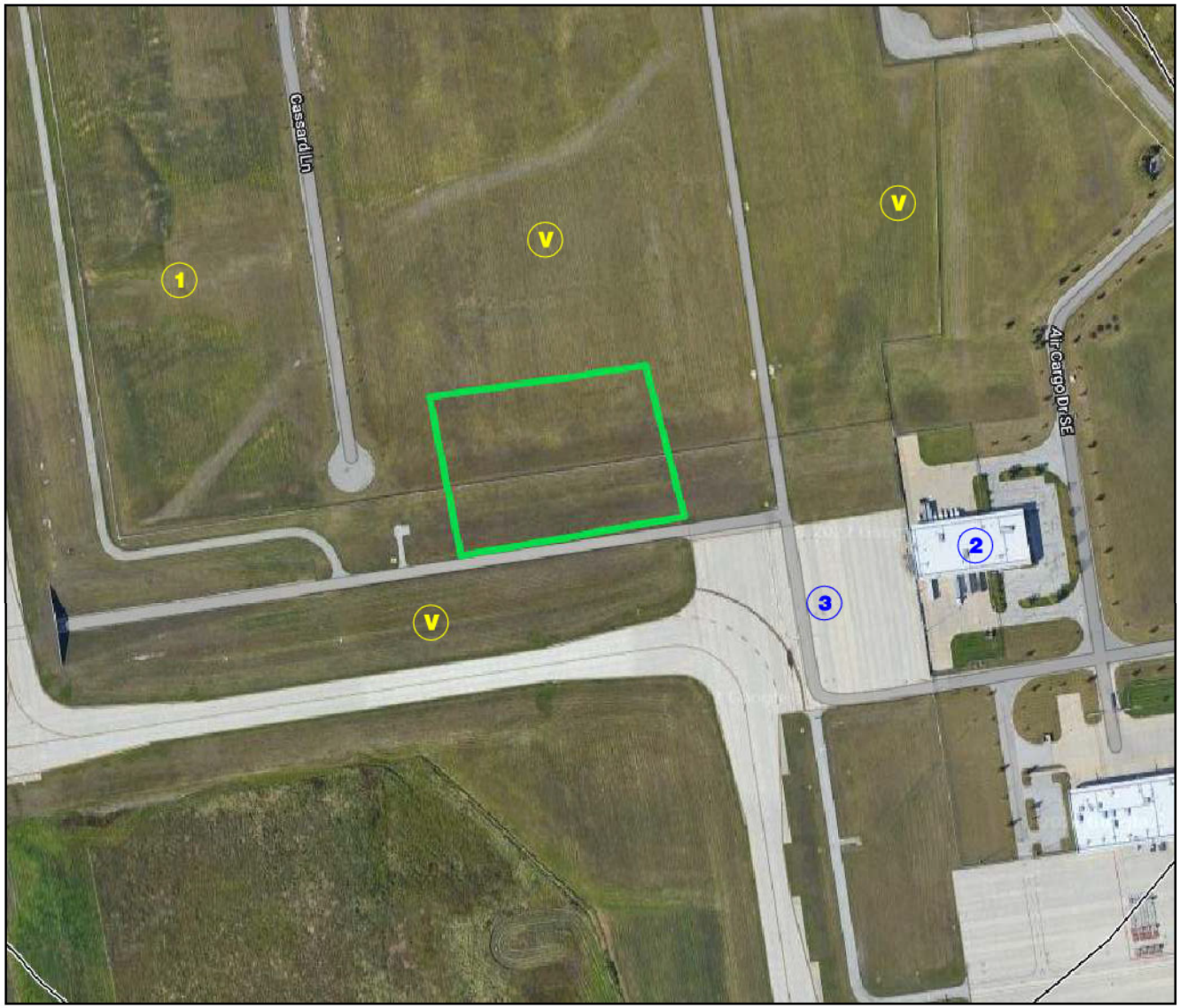
FIGURE 1
SUBJECT PROPERTY LOCATION MAP

Site A1 and A28 (a portion of 5500 44th Street SE)
Cascade Charter Township, Michigan

May 2022 225360

NOT A LEGAL SURVEY

BLDI
Environmental Engineering



Legend

1. Airport Operations Center and Avflight Grand Rapids
   4211 Cassard Lane
2. United Postal Service
   6425 Air Cargo Drive SE
3. Gerald R. Ford International Airport
   5500 44th Street SE

V Vacant Land

Subject Property Boundaries

VS

0 400 800

APPROXIMATE SCALE IN FEET

NOT A LEGAL SURVEY

FIGURE 2
SUBJECT PROPERTY LAYOUT MAP

Site A1 and A28 (a portion of 5500 44th Street SE)
Cascade Charter Township, Michigan

May 2022 225360

APPENDIX B

Legal Description

Property Search

Tax Description

Parcel Number: 41-19-20-300-020
Property Address: 5500 44TH ST SE

Description

411920300020 PART OF SEC'S 17, 19, 20, 21, 28, 29, 30 & 32 T6N R10W DESC AS - COM AT INT OF W LINE OF SEC 19 & SLY LINE OF C&O RR R/W /100 FT WIDE/ TH ELY ALONG SLY LINE OF SD RR R/W TO W 1/8 LINE OF SEC 20 TH N ALONG W 1/8 LINES OF SEC'S 20 & 17 TO NW COR OF S 1/2 SE 1/4 SW 1/4 OF SEC 17 TH E ALONG N LINE OF S 1/2 SE 1/4 SW 1/4 OF SEC 17 TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE TO WLY LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ TH S ALONG WLY LINE OF SD DR TO SLY LINE OF SD RR R/W TH SELY ALONG SLY LINE OF SD RR R/W TO W LINE OF E 60 FT OF SE 1/4 NE 1/4 OF SEC 20 TH S ALONG SD W LINE TO E&W 1/4 LINE OF SEC 20 TH E ALONG E&W 1/4 LINE OF SEC 20 TO W LINE OF E 43.0 FT OF SE 1/4 TH S ALONG SD W LINE TO S LINE OF N 163.0 FT OF SE 1/4 TH E ALONG SD S LINE TO SWLY LINE OF FORMER THORNAPPLE RIVER DR /120 FT WIDE/ TH SELY ALONG SD SWLY LINE TO SWLY LINE OF THORNAPPLE RIVER DR /120 FT WIDE/ TH SELY & SLY ALONG SD SWLY LINE TO E&W 1/4 LINE OF SEC 28 TH E ALONG E&W 1/4 LINE OF SEC 28 TO N&S 1/4 LINE OF SEC 28 TH S ALONG N&S 1/4 LINE OF SEC 28 TO S 1/8 LINE OF SEC 28 TH W ALONG S 1/8 LINE OF SEC 28 TO E LINE OF SEC 29 TH S ALONG E LINES OF SEC'S 29 & 32 TO A PT 1487.69 FT S 0D 07M 45S E FROM E 1/4 COR OF SEC 32 TH SWLY 80.06 FT ALONG A 4284.46 FT RAD CURVE TO RT /LONG CHORD BEARS S 58D 04M 34S W 80.06 FT/ TO A LINE BEARING NELY FROM A PT 470.0 FT N ALONG N&S 1/4 LINE OF SEC 32 FROM S 1/4 COR OF SEC 32 TH SWLY ALONG SD LINE TO A PT WHICH IS 697.0 FT N 0D 15M 16S W ALONG N&S 1/4 LINE OF SEC 32 & 548.51 FT N 63D 31M 56S E & 1132.02 FT S 89D 28M 02S E & 67.20 FT S 62D 28M 00S E FROM S 1/4 COR OF SEC 32 TH N 62D 28M 00S W 67.20 FT TH WLY 1175.03 FT ALONG A 1132.02 FT RAD CURVE TO LT /LONG CHORD BEARS N 89D 28M 02S W 1132.02 FT/ TH S 63D 31M 56S W 548.51 FT TO A PT 697.0 FT N ALONG N&S 1/4 LINE FROM S 1/4 COR OF SEC 32 TH N ALONG N&S 1/4 LINE OF SEC 32 TO N 1/8 LINE OF SEC 32 TH W ALONG N 1/8 LINE OF SEC 32 TO W LINE OF E 10 A. OF NE 1/4 NW 1/4 OF SEC 32 TH N ALONG SD W LINE TO S LINE OF SEC 29 TH W ALONG S LINE OF SEC 29 TO A PT 320.0 FT E ALONG S LINE OF SEC 29 FROM W 1/8 LINE OF SEC 29 TH N PAR WITH W 1/8 LINE OF SEC 29 TO N LINE OF S 3/4 SW 1/4 OF SEC 29 TH W ALONG SD N LINE TO E LINE OF SEC 30 TH N ALONG E LINE OF SEC 30 TO A PT 481.96 FT S FROM E 1/4 COR OF SEC 30 TH W 1328.13 FT PAR WITH E&W 1/4 LINE OF SEC 30 TO E 1/8 LINE OF SEC 30 TH SWLY 1265.28 FT TO A PT 73.0 FT E & 642.18 FT S FROM CEN OF SEC 30 TH S PAR WITH N&S 1/4 LINE OF SD SEC TO A PT 179.86 FT S FROM EXT S LINE OF N 40 A. OF SWFRL 1/4 OF SEC 30 TH W PAR WITH E&W 1/4 LINE OF SEC 30 TO W LINE OF SEC 30 TH N ALONG W LINES OF SEC'S 30 & 19 TO BEG EX PART OF SE 1/4 OF SEC 19 & PART OF SW 1/4 OF SEC 20 & PART OF NE 1/4 OF SEC 30 COM AT S 1/4 COR OF SEC 19 TH N 88D 37M E ALONG S LINE OF SD SEC 788.16 FT TH N 1D 23M W 108.0 FT TO BEG OF THIS EX - TH NELY 690.20 FT ALONG A 892.0 FT RAD CURVE TO LT /LONG CHORD BEARS N 66D 27M E 673.24 FT/ TH S 47D 49M E 651.32 FT TH N 81D 13M E 424.47 FT TH S 53D 47M E 83.77 FT TH N 36D 13M E 570.0 FT TH N 53D 47M W 32.72 FT

TH N 1D 22M W 812.51 FT TH S 53D 47M E 5.16 FT TH N 81D 13M E 150.0 FT TH N 8D 47M W 560.0 FT TH S 81D 13M W 138.40 FT TH S 8D 47M E 190.0 FT TH N 63D 23M W 38.54 FT TH SWLY 174.60 FT ALONG A 1042.0 FT RAD CURVE TO RT /LONG CHORD BEARS S 31D 25M W 174.38 FT/ TH S 36D 13M W 825.40 FT TH N 53D 47M W 650.0 FT TH S 36D 13M W 585.45 FT TH SWLY 358.50 FT ALONG A 392.0 FT RAD CURVE TO RT /LONG CHORD BEARS S 62D 25M W 346.14 FT/ TH S 1D 23M E 500.0 FT TO BEG & EX C&O RR R/W /100 FT WIDE/ & EX PART OF NE 1/4 SEC 20 COM 1658.17 FT S 0D 46M 17S E ALONG E SEC LINE & 75.0 FT S 89D 13M 43S W FROM NE COR OF SEC TO SWLY LINE OF HWY I-96 & WLY LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ TH S 0D 46M 17S E ALONG SD WLY LINE 98.19 FT TO NLY LINE OF PROPOSED 36TH ST /120 FT WIDE/ TH N 45D 58M 30S W ALONG SD NLY LINE 960.05 FT TH NWLY ALONG SD NLY LINE 1084.69 FT ON A 2924.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 56D 35M 58S W 1078.48 FT/ TH N 38D 40M 44S E 167.39 FT TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE 644.15 FT ON A 11309.16 FT RAD CURVE TO RT /LONG CHORD BEARS S 49D 41M 21S E 644.07 FT/ TH S 89D 39M 26S E ALONG SD SWLY LINE 70.61 FT TH SELY ALONG SD SWLY LINE 202.07 FT ON A 11356.16 FT RAD CURVE TO RT /LONG CHORD BEARS S 47D 03M 15S E 292.07 FT/ TH S 46D 19M 03S E ALONG SD SWLY LINE 980.68 FT TO BEG & EX THAT PART OF NW 1/4 & NE 1/4 OF SEC 20 LYING 60.0 FT NLY & 60.0 FT SLY /MEAS PERP TO/ & PAR WITH A LINE DESCRIBED AS COM 739.36 FT N 0D 46M 17S W ALONG E SEC LINE & N 45D 58M 30S W 105.69 FT FROM E 1/4 COR TO W LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ & BEG OF THIS EX - TH N 45D 58M 30S W 1019.63 FT TH NWLY 1584.53 FT ON A 3864.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 61D 49M 13S W 1564.41 FT/ TH N 77D 39M 56S W 482.26 FT TO A PT ON E LINE OF NW 1/4 SD PT BEING 302.15 FT S 0D 46M 47S E FROM NW 1/4 TH N 77D 39M 56S W 928.25 FT TH WLY 397.82 FT ON A 2864.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 84D 19M 08S W 397.15 FT/ TO E LINE OF W 1/2 OF NW 1/4 & PT OF THIS ENDING & EX COM AT S 1/4 COR SEC 17 TH N 0D 54M 01S W ALONG N&S 1/4 LINE OF SD SEC 408.58 FT TO SWLY LINE OF HWY I-96 TH NWLY 81.61 FT ALONG SD SWLY LINE ON A 3969.74 FT RAD CURVE TO RT /LONG CHORD BEARS TH N 55D 52M 34S W 81.61 FT/ TO BEG OF THIS EX - TH S 75D 53M 30S W 129.74 FT TH SLY 253.0 FT ON A 1240.0 FT RAD CURVE TO LT /LONG CHORD BEARS S 18D 10M 46S W 252.56 FT/ TH S 12D 20M 04S W 353.50 FT TO NLY LINE OF 36TH ST /120 FT WIDE/ TH N 77D 39M 56S W ALONG SD NLY LINE 320.0 FT TH N 12D 20M 04S E 353.50 FT TH NLY 436.97 FT ON A 1560.0 FT RAD CURVE TO RT /LONG CHORD BEARS N 20D 21M 32S E 435.55 FT/ TO S LINE OF KRAFT INDUSTRIAL PARK TH E ALONG SD S LINE TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE TO BEG & EX PART OF SW 1/4 OF SEC 20 COM 1270.97 FT N 1D 40M 15S W & 1291.18 FT 90D 00M 00S E FROM SW COR OF SEC TH N 0D 00M 00S 134.67 FT TH 90D 00M 00S E 140.0 FT TH S 0D 00M 00S 149.0 FT TH 90D 00M 00S W 80.0 FT TH N 0D 00M 00S 14.33 FT TH 90D 00M 00S W 60.0 FT TO BEG & EX THAT PART OF SEC 21 LYING NLY OF SLY LINE OF VENNEMAN DR /86 FT WIDE/ & SLY OF NLY LINE OF SD DR & ELY OF W LINE OF SEC 21 & WLY OF SWLY LINE OF THORNAPPLE RIVER DR /120 FT WIDE/ & EX THAT PART OF SEC 21 LYING NLY OF NLY LINE OF 44TH ST /66 FT WIDE/ & SELY OF NWLY LINE OF 44TH ST RELOCATED /86 FT WIDE/ & WLY OF SWLY LINE OF FORMER THORNAPPLE RIVER DR /120 FT WIDE/ & EX S 250.0 FT OF N 300.0 FT OF W 17.0 FT OF E 50.0 FT OF SW 1/4 OF SEC 28 & EX PART OF NE 1/4 OF SEC 30 COM AT N 1/4 COR TH N 88D 37M E ALONG N SEC LINE 749.51 FT TH S 1D 23M E 356.06 FT TO BEG OF THIS EX - TH N 81D 13M E 709.0 FT TH S 8D 47M E 383.5 FT TH N 81D 13M E 117.0 FT TH S 8D 47M E 350.0 FT TH N 81D 13M E 21.0 FT TH S 8D 47M E 120.0 FT TH S 81D 13M W 278.0 FT TH N 8D 47M W 418.50 FT TH S 81D 13M W 692.0 FT TH N 8D 47M W 90.0 FT TH N 81D 13M E 123.0 FT TH N 8D 47M W 345.0 FT TO BEG & EX PART OF N 1/2 OF SEC 30 COM 35.12 FT N 88D 37M E ALONG

N SEC LINE & 211.95 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 1060.0 FT TH S 81D 13M W 234.50 FT TH N 8D 47M W 710.0 FT TH S 81D 13M W 75.0 FT TH N 8D 47M W 350.0 FT TH N 81D 13M E 309.50 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 59.32 FT N 88D 37M E ALONG N SEC LINE & 188.83 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 480.0 FT TH N 81D 13M E 235.0 FT TH N 8D 47M W 480.0 FT TH S 81D 13M W 235.0 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 59.32 FT N 88D 37M E ALONG N SEC LINE & 748.83 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 460.0 FT TH N 81D 13M E 235.0 FT TH N 8D 47M W 460.0 FT TH S 81D 13M W 235.0 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 2369.14 FT N 7D 25M 19S E & 891.62 FT 90D 00M 00S W FROM E 1/4 COR OF SEC 30 TH N 45D E 42.0 FT TH N 45D E 284.25 FT TH S 45D E 42.0 FT TH S 45D W 284.25 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 1950.75 FT N 7D 25M 19S E & 790.94 FT 90D 00M 00S W FROM E 1/4 COR OF SEC 30 TH 90D W 62.42 FT TH N 0D 270.96 FT TH 90D W 8.0 FT TH N 0D 10.67 FT TH 90D E 8.0 FT TH N 0D 2

APPENDIX C

Subject Property Photographs

Photograph Number 1:

Northeasterly view of the subject property.

Photograph Number 2:

Northwesterly view of the subject property.

Photograph Number 3:

Southwesterly view of the subject property.

Photograph Number 4:

Southeasterly view of the subject property.

Photograph Number 5:

View of southern adjoining property.

Photograph Number 6:

View of the western adjoining properties.

Photograph Number 7:

View of northern adjoining property.

Photograph Number 8:

View of airport access road followed by eastern adjoining properties.

APPENDIX D

Database Report

BLDI

Phase I Environmental Site Assessment

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512

Inquiry Number: 6946651.2s
April 19, 2022

The EDR Radius Map™ Report with GeoCheck®

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

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Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	153
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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Physical Setting Source Records Searched	PSGR-1

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 (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5500 44TH STREET SE
GRAND RAPIDS, MI 49512

COORDINATES

Latitude (North):	42.8867180 - 42ˆ 53' 12.18"
Longitude (West):	85.5124060 - 85ˆ 30' 44.66"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	621478.3
UTM Y (Meters):	4749093.5
Elevation:	778 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14450376 GRAND RAPIDS EAST, MI
Version Date:	2019
Northeast Map:	14457477 CASCADE, MI
Version Date:	2019
Southeast Map:	14457473 ALTO, MI
Version Date:	2019
Southwest Map:	14450350 CALEDONIA, MI
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140828
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ENVOY AIR INC	5500 44TH ST SE	RCRA-VSQG, FINDS, ECHO		TP
A2	AMR COMBS GRAND RAPI	5500 44TH ST	LUST, UST		TP
A3	SMITHS INDUSTRIES	5500 44TH ST SE	RCRA NonGen / NLR		TP
A4	FAST DELIVERY INC HA	5500 44TH ST SE	RCRA-VSQG		TP
A5	DELTA AIR LINES GRAN	5500 44TH ST SE	RCRA NonGen / NLR		TP
A6	FAA GRR ASR4	5500 44TH ST	LUST, UST, INVENTORY		TP
A7	KENT CO. INTERNATION	5500 44TH ST. SE	RGA LUST		TP
A8	HERTZ RENT-A-CAR	5500 44TH ST SE	RGA LUST		TP
A9	ENVOY AIR INC	5500 44TH ST SE	RCRA NonGen / NLR		TP
A10	KENT CT DEPT /AERONA	5500 44TH ST	LUST, UST, INVENTORY		TP
A11	SIGNATURE FLIGHT-GRR	5500 44TH STREET SE	Financial Assurance		TP
A12	AVIS RENT A CAR SYST	5500 44TH ST	LUST, UST, INVENTORY		TP
A13	BISSELL INC	5500 44TH ST SE	RCRA-VSQG		TP
A14	LANDMARK AVIATION	5500 44TH ST SE	RCRA-VSQG		TP
A15	INDEPENDENCE RECYCLI	5500 44TH STREET SE	FINDS		TP
A16	KENT COUNTY (CFR)	5500 44TH ST	LUST, INVENTORY, SPILLS, BEA, Financial Assurance,...		TP
A17	BISSELL INC	5500 44TH ST SE	FINDS, ECHO		TP
A18	CONTINENTAL EXPRESS	5500 44TH ST SE	RCRA NonGen / NLR		TP
A19	LANDMARK AVIATION	5500 44TH ST SE	UST, RCRA NonGen / NLR, FINDS, ECHO, AIRS		TP
A20	FEDERAL EXPRESS CORP	5500 44TH ST SE	RCRA NonGen / NLR, FINDS, ECHO		TP
A21	UNITED AIRLINES	5500 44TH ST	UST		TP
A22	PIEDMONT AIRLINES	5500 44TH ST SE	FINDS, ECHO		TP
A23		5500 44TH STREET SE	ERNS		TP
A24	KENT COUNTY INTERNAT	5500 44TH STREET, SE	PRP		TP
A25	HERTZ CAR RENTAL	5500 44TH ST SE	AUL, WDS, PFAS		TP
A26	HERTZ RENT A CAR (AR	5500 44TH ST	LUST, UST, INVENTORY, NPDES		TP
A27	NORTHERN AIR INC	5500 44TH STREET (GA	RGA LUST		TP
A28	NORTHERN AIR INC	5500 44TH ST SE	RGA LUST		TP
A29	KENT COUNTY MAINTENA	5500 44TH STREET SE	RGA LUST		TP
A30	NORTHERN AIR INC	5500 44TH SREET SE	RGA LUST		TP
A31	KENT CT DEPT /AERONA	5500 44TH STREET SE	RGA LUST		TP
A32	NORTHERN AIR INC	5500 44TH ST (GA FAR	RGA LUST		TP
A33	KENT COUNTY MAINTENA	5500 44TH ST SE	RGA LUST		TP
A34	KENT COUNTY INTL AIR	5500 44TH ST SE	RGA LUST		TP
A35	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A36	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A37	KENT COUNTY (CFR)	5500 44TH STREET SE	RGA LUST		TP
A38	KENT COUNTY DEPT OF	5500 44TH STREET SE	RGA LUST		TP
A39	KENT COUNTY DEPT OF	5500 44TH ST SE	RGA LUST		TP

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A40	FAA GRR ASR4	5500 44TH STREET SE	RGA LUST		TP
A41	KENT COUNTY INTERNAT	5500 44TH ST.	RGA LUST		TP
A42	NORTHERN AIR INC	5500 44TH STREET SE	RGA LUST		TP
A43	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A44	HERTZ RENT A CAR	5500 44TH SE	RGA LUST		TP
A45	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A46	TSA - GERALD R FORD	5500 44TH STREET SE	ICIS, FINDS, ECHO		TP
A47	AVIS RENT A CAR SY	5500 44TH STREET SE	RGA LUST		TP
A48	SIGNATURE FLIGHT GRR	5500 44TH ST	UST		TP
A49	FAA GRR ASR4	5500 44TH ST SE	RGA LUST		TP
A50	LANDMARK AVIATION	5500 44TH ST SE	WDS		TP
A51	ALAMO RENT-A-CAR NAT	5500 44TH SREET SE	RGA LUST		TP
A52	BUILDING 106, 5500 4	BUILDING 106, 5500 4	BEA		TP
A53	AMR COMBS - GRAND RA	5500 44TH STREET SE	RGA LUST		TP
A54	AVIS RENT A CAR	5500 44TH ST.	RGA LUST		TP
A55	AVIS RENT-A-CAR SYST	5500 44TH STREET SE	RGA LUST		TP
A56	AVIS RENT-A-CAR	5500 44TH ST SE	RGA LUST		TP
A57	AVIS RENT A CAR SYST	5500 44TH STREET SE	RGA LUST		TP
A58	FAA AIRWAY FACILITIE	5500 44TH ST SE	RGA LUST		TP
A59	AVIS RENT-A-CAR SYST	5500 44TH ST SE	RGA LUST		TP
A60	AMR COMBS - GRAND RA	5500 44TH STREET (GA	RGA LUST		TP
A61	FAA AIRWAY FACILITIE	5500 44TH STREET SE	RGA LUST		TP
A62	INDEPENDENCE RECYCLI	5500 44TH STREET SE	AIRS		TP
A63		5500 44TH ST	HMIRS		TP
A64	AVIS RENT A CAR S	5500 44TH ST SE K	RGA LUST		TP
A65		5500 44TH STREET SE,	SPILLS		TP
A66	KENT COUNTY (CFR)	5500 44TH ST	LUST, UST		TP
A67	TSA - GERALD R FORD	5500 44TH ST SE	RCRA-VSQG		TP
A68	SIGNATURE FLIGHT-GRR	5500 44TH STREET SE	UST		TP
A69	UNITED AIRLINES	5500 44TH ST. SE	RGA LUST		TP
A70	LANDMARK AVIATION	5500 44TH ST	AST		TP
A71	AMR COMBS GRAND RAPI	5500 44TH ST SE	RGA LUST		TP
A72	GERALD R. FORD INTER	5500 44TH STREET; SE	INVENTORY		TP
A73	INDEPENDENCE RECYCLI	5500 44TH STREET SE	AIRS		TP
A74	AVIS RENT A CAR SY	5500 44TH STREET SE	RGA LUST		TP
A75	BUILDING 106, 5500 4	BUILDING 106, 5500 4	BEA		TP
A76	BUILDING 106, 5500 4	BUILDING 106; 5500 4	INVENTORY		TP
A77	AVIS RENT A CAR S	5500 44TH ST SE KENT	RGA LUST		TP
78	4211 CASSARD LANE, G	4211 CASSARD LANE	INVENTORY, BEA	Higher	511, 0.097, West

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
B79	FEDERAL EXPRESS CORP	6450 AIR CARGO RD SE	RCRA-VSQG, FINDS, ECHO	Higher	1284, 0.243, ESE
B80	FEDERAL EXPRESS CORP	6450 AIR CARGO RD SE	RCRA-VSQG	Higher	1284, 0.243, ESE
81	THRONAPPLE ENTERPRIS	4190 THORNAPPLE RIVE	LUST, INVENTORY	Lower	1609, 0.305, ENE

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ENVOY AIR INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK668647779 FINDS Registry ID:: 110008456759 Registry ID:: 110013364091 Registry ID:: 110003670849 Registry ID:: 110009600805 Registry ID:: 110009600994 ECHO Registry ID: 110009600994 Registry ID: 110003670849 Registry ID: 110009600805 Registry ID: 110008456759 Registry ID: 110013364091	MIK668647779
AMR COMBS GRAND RAPI 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Release Status: Open Substance Release: Other Substance Release: Used Oil Substance Release: Unknown Facility Id: 00018301 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00018301	N/A
SMITHS INDUSTRIES 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985574193	MID985574193
FAST DELIVERY INC HA 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MID985567411	MID985567411
DELTA AIR LINES GRAN 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985581321	MID985581321
FAA GRR ASR4 5500 44TH ST GRAND RAPIDS, MI 49512	LUST	N/A

	Release Status: Closed Substance Release: Diesel Facility Id: 00013884 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00013884 INVENTORY Facility ID: 13884	
KENT CO. INTERNATION 5500 44TH ST. SE GRAND RAPIDS, MI	RGA LUST	N/A
HERTZ RENT-A-CAR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST	N/A
ENVOY AIR INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MIK743613739	MIK743613739
KENT CT DEPT /AERONA 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Facility Id: 00040196 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Currently In Use Tank Status: Removed from Ground Facility Type: ACTIVE Facility Id: 00040196 INVENTORY Facility ID: 40196	N/A
SIGNATURE FLIGHT-GRR 5500 44TH STREET SE GRAND RAPIDS, MI 49512	Financial Assurance Database: FINANCIAL ASSURANCE 3, Date of Government Version: 12/20/2021	N/A
AVIS RENT A CAR SYST 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Substance Release: Gasoline Facility Id: 00016452 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground	N/A

EXECUTIVE SUMMARY

	Facility Type: CLOSED Facility Id: 00016452 INVENTORY Facility ID: 16452	
BISSELL INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK392845467	MIK392845467
LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK857313202	MIK857313202
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110021108772	N/A
KENT COUNTY (CFR) 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Substance Release: Other Substance Release: Unknown Facility Id: 00015000 Facility Id: 00018302 INVENTORY Facility ID: 18301 Facility ID: 18302 Facility ID: 4115 Facility ID: 15000 SPILLS BEA Financial Assurance Database: FINANCIAL ASSURANCE 3, Date of Government Version: 12/20/2021 WDS Site Id: MIK289887432 WMD Id: 477398	N/A
BISSELL INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110043412606 ECHO Registry ID: 110043412606	N/A
CONTINENTAL EXPRESS 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985641703	MID985641703

EXECUTIVE SUMMARY

LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00015000 RCRA NonGen / NLR EPA ID:: MID062226998 FINDS Registry ID:: 110009598015 ECHO Registry ID: 110009598015 AIRS State Registration Id: N2692	MID062226998
FEDERAL EXPRESS CORP 5500 44TH ST SE KENTWOOD, MI 49512	RCRA NonGen / NLR EPA ID:: MID985603919 FINDS Registry ID:: 110003651842 ECHO Registry ID: 110003651842	MID985603919
UNITED AIRLINES 5500 44TH ST GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00039157	N/A
PIEDMONT AIRLINES 5500 44TH ST SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110015806831 ECHO Registry ID: 110015806831	N/A
5500 44TH STREET SE 5500 44TH STREET SE GRAND RAPIDS, MI 49512	ERNS NRC Report #: 849493 Incident Date Time: 2007-09-21 10:30:00	N/A
KENT COUNTY INTERNAT 5500 44TH STREET, SE GRAND RAPIDS, MI 49512	PRP	N/A
HERTZ CAR RENTAL 5500 44TH ST SE GRAND RAPIDS, MI 49512	AUL Facility ID: 00016452 Facility ID: 00034246 WDS	N/A

	Site Id: MIK392845467 Site Id: MID985567411 Site Id: MID985574193 Site Id: MID985581321 Site Id: MID985603919 **Additional key fields are available in the Map Findings section* WMD Id: 489106 WMD Id: 401895 WMD Id: 402325 WMD Id: 402989 WMD Id: 404365 **Additional key fields are available in the Map Findings section* PFAS	
HERTZ RENT A CAR (AR 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Facility Id: 00034246 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00034246 INVENTORY Facility ID: 34246 NPDES Permit Number: MI0055735 Permit Number: MIR116870	N/A
NORTHERN AIR INC 5500 44TH STREET (GA GRAND RAPIDS, MI	RGA LUST Facility ID: 0-018302	N/A
NORTHERN AIR INC 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 00015000 Facility ID: 15000 Facility ID: 0-015000	N/A
KENT COUNTY MAINTENA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-004115	N/A
NORTHERN AIR INC 5500 44TH SREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 15000	N/A
KENT CT DEPT /AERONA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST	N/A

	Facility ID: 40196	
NORTHERN AIR INC 5500 44TH ST (GA FAR GRAND RAPIDS, MI	RGA LUST Facility ID: 00018302 Facility ID: 18302 Facility ID: 0-018302	N/A
KENT COUNTY MAINTENA 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-004115 Facility ID: 00004115 Facility ID: 4115	N/A
KENT COUNTY INTL AIR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 5-001162	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 00034246 Facility ID: 34246	N/A
KENT COUNTY (CFR) 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 4115	N/A
KENT COUNTY DEPT OF 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 40196	N/A
KENT COUNTY DEPT OF 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 40196 Facility ID: 0-040196 Facility ID: 00040196	N/A
FAA GRR ASR4 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST	N/A

	Facility ID: 0-013884	
KENT COUNTY INTERNAT 5500 44TH ST. GRAND RAPIDS, MI	RGA LUST	N/A
NORTHERN AIR INC 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-015000	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
HERTZ RENT A CAR 5500 44TH SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-034246	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
TSA - GERALD R FORD 5500 44TH STREET SE GRAND RAPIDS, MI 49512	ICIS FRS ID:: 110017871784 FINDS Registry ID:: 110017871784 ECHO Registry ID: 110017871784	N/A
AVIS RENT A CAR SY 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
SIGNATURE FLIGHT GRR 5500 44TH ST GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00018302	N/A
FAA GRR ASR4 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST	N/A

	Facility ID: 00013884 Facility ID: 13884 Facility ID: 0-013884	
LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	WDS Site Id: MIK857313202 Site Id: MID062226998 WMD Id: 493199 WMD Id: 396689	N/A
ALAMO RENT-A-CAR NAT 5500 44TH SREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 15000	N/A
BUILDING 106, 5500 4 BUILDING 106, 5500 4 GRAND RAPIDS, MI 49512	BEA	N/A
AMR COMBS - GRAND RA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-015000	N/A
AVIS RENT A CAR 5500 44TH ST. GRAND RAPIDS, MI	RGA LUST	N/A
AVIS RENT-A-CAR SYST 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-016452	N/A
AVIS RENT-A-CAR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-016452	N/A
AVIS RENT A CAR SYST 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
FAA AIRWAY FACILITIE 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-013884	N/A
AVIS RENT-A-CAR SYST 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST	N/A

	Facility ID: 0-016452	
AMR COMBS - GRAND RA 5500 44TH STREET (GA GRAND RAPIDS, MI	RGA LUST Facility ID: 0-018302	N/A
FAA AIRWAY FACILITIE 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-013884	N/A
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	AIRS State Registration Id: N6958	N/A
5500 44TH ST 5500 44TH ST GRAND RAPIDS, MI	HMIRS	N/A
AVIS RENT A CAR S 5500 44TH ST SE K GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
5500 44TH STREET SE, 5500 44TH STREET SE, GRAND RAPIDS, MI	SPILLS	N/A
KENT COUNTY (CFR) 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Open Facility Id: 00004115 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00004115	N/A
TSA - GERALD R FORD 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK289887432	MIK289887432
SIGNATURE FLIGHT-GRR 5500 44TH STREET SE GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021	N/A

	Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00033129	
UNITED AIRLINES 5500 44TH ST. SE GRAND RAPIDS, MI	RGA LUST	N/A
LANDMARK AVIATION 5500 44TH ST GRAND RAPIDS, MI 49512	AST Facility Id: 91084239 Tank Status: Currently In Use	N/A
AMR COMBS GRAND RAPI 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 00018301 Facility ID: 18301 Facility ID: 0-018301	N/A
GERALD R. FORD INTER 5500 44TH STREET; SE GRAND RAPIDS, MI 49512	INVENTORY Facility ID: 41001285	N/A
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	AIRS State Registration Id: N6948	N/A
AVIS RENT A CAR SY 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
BUILDING 106, 5500 4 BUILDING 106, 5500 4 KENT (County), MI 49512	BEA	N/A
BUILDING 106, 5500 4 BUILDING 106; 5500 4 KENT (County), MI 49512	INVENTORY Facility ID: 41002271	N/A
AVIS RENT A CAR S 5500 44TH ST SE KENT GRAND RAPIDS, MI	RGA LUST Facility ID: 00016452	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

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

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

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

Lists of state and tribal registered storage tanks

FEMA UST---------- Underground Storage Tank Listing
INDIAN UST---------- Underground Storage Tanks on Indian Land

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 Brownfield lists

US BROWNFIELDS---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

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

Local Land Records

LIENS---------- Lien List
LIENS 2---------- CERCLA Lien Information

Other Ascertainable Records

FUDS---------- Formerly Used Defense Sites
DOD---------- Department of Defense Sites

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PADS..... PCB Activity Database System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
ASBESTOS..... ASBESTOS
COAL ASH..... Coal Ash Disposal Sites
DRYCLEANERS..... Drycleaning Establishments
LEAD..... Lead Safe Housing Registry
UIC..... Underground Injection Wells Database
MINES MRDS..... Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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

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

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

STANDARD ENVIRONMENTAL RECORDS

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 02/28/2022 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FEDERAL EXPRESS CORP EPA ID:: MIK663576650	***6450 AIR CARGO RD SE***	***ESE 1/8 - 1/4 (0.243 mi.)***	***B79***	***145***
FEDERAL EXPRESS CORP EPA ID:: MIR000041392	6450 AIR CARGO RD SE	ESE 1/8 - 1/4 (0.243 mi.)	B80	148

Lists of state and tribal leaking storage tanks

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 11/08/2021 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THRONAPPLE ENTERPRIS Release Status: Open Substance Release: Diesel,Diesel Facility Id: 00042998 Facility Id: 10000281	***4190 THORNAPPLE RIVE***	***ENE 1/4 - 1/2 (0.305 mi.)***	***81***	***151***

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

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

A review of the INVENTORY list, as provided by EDR, and dated 01/19/2022 has revealed that there are 2 INVENTORY sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
4211 CASSARD LANE, G Facility ID: 41002299	***4211 CASSARD LANE***	***W 0 - 1/8 (0.097 mi.)***	***78***	***144***

Lower Elevation	Address	Direction / Distance	Map ID	Page
THRONAPPLE ENTERPRIS Facility ID: 10000281	***4190 THORNAPPLE RIVE***	***ENE 1/4 - 1/2 (0.305 mi.)***	***81***	***151***

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 04/04/2022 has revealed that there is 1 BEA site within approximately 0.5 miles of the target property.

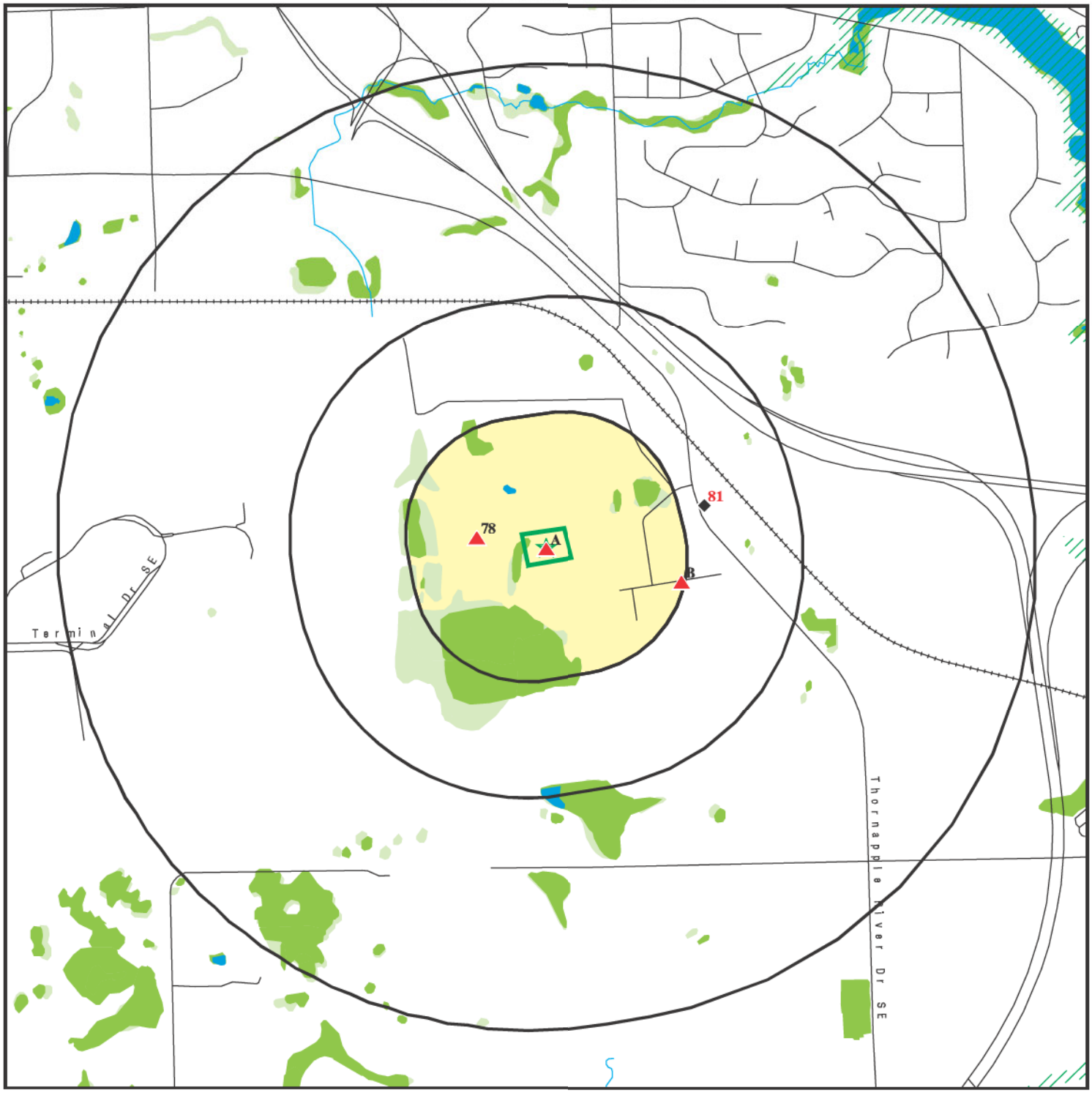
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
4211 CASSARD LANE, G	***4211 CASSARD LANE***	***W 0 - 1/8 (0.097 mi.)***	***78***	***144***

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
	CDL

OVERVIEW MAP - 6946651.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

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:	A1 and A28	CLIENT:	BLDI Consultants
ADDRESS:	5500 44th Street SE Grand Rapids MI 49512	CONTACT:	Rachel Kane
		INQUIRY #:	6946651.2s
LAT/LONG:	42.886718 / 85.512406	DATE:	April 19, 2022 3:23 pm

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DETAIL MAP - 6946651.2S

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- 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:	A1 and A28	CLIENT:	BLDI Consultants
ADDRESS:	5500 44th Street SE Grand Rapids MI 49512	CONTACT:	Rachel Kane
		INQUIRY #:	6946651.2s
LAT/LONG:	42.886718 / 85.512406	DATE:	April 19, 2022 3:24 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250	5	0	2	NR	NR	NR	7
Federal institutional controls / engineering controls registries								
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
Federal ERNS list								
ERNS	0.001	1	0	NR	NR	NR	NR	1
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500	7	0	0	1	NR	NR	8

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
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	10	0	0	NR	NR	NR	10
AST	0.250	1	0	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500	1	0	0	0	NR	NR	1
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
PART 201	1.000		0	0	0	0	NR	0
INVENTORY	0.500	7	1	0	1	NR	NR	9
CDL	0.001		0	NR	NR	NR	NR	0
DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500	1	0	0	0	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001	1	0	NR	NR	NR	NR	1
SPILLS	0.001	2	0	NR	NR	NR	NR	2
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	6	0	0	NR	NR	NR	6

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	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001	1	0	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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
FINDS	0.001	7	0	NR	NR	NR	NR	7
ECHO	0.001	6	0	NR	NR	NR	NR	6
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001	3	0	NR	NR	NR	NR	3
ASBESTOS	0.001		0	NR	NR	NR	NR	0
BEA	0.500	3	1	0	0	NR	NR	4
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001	2	0	NR	NR	NR	NR	2
LEAD	0.001		0	NR	NR	NR	NR	0
NPDES	0.001	1	0	NR	NR	NR	NR	1
UIC	0.001		0	NR	NR	NR	NR	0
WDS	0.001	3	0	NR	NR	NR	NR	3
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	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
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA PART 201	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	38	0	NR	NR	NR	NR	38
- Totals --		107	2	2	2	0	0	113

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 Target Property — **ENVOY AIR INC**, **5500 44TH ST SE**, **GRAND RAPIDS, MI 49512**

RCRA-VSQG 1007099439
FINDS MIK668647779
ECHO

Site 1 of 77 in cluster A

Actual: 778 ft.

RCRA-VSQG:

Date Form Received by Agency:		20020424
Handler Name:	PIEDMONT AIRLINES	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK668647779
Contact Name:		JEFFREY SWANSON
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-233-6310
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
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
State District:		Not reported
Mailing Address:		5500 44TH ST SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49512
Owner Name:		COUNTY OF KENT
Owner Type:		County
Operator Name:		JEFFREY SWANSON/PIEDMONT AIRLINES
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

ENVOY AIR INC (Continued) **1007099439**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JEFFREY SWANSON/PIEDMONT AIRLINES
Legal Status:	Private
Date Became Current:	20020424
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

ENVOY AIR INC (Continued) **1007099439**

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: 20020424
Handler Name: PIEDMONT AIRLINES
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: 481111
NAICS Description: SCHEDULED PASSENGER AIR TRANSPORTATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110013364091

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110008456759

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110009600805

ENVOY AIR INC (Continued) **1007099439**

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110009600994

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110003670849

Click Here:

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

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

ECHO:

Envid:	1007099439
Registry ID:	110009600994
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009600994
Name:	SMITHS INDUSTRIES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Envid:	1007099439
Registry ID:	110003670849
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003670849
Name:	CONTINENTAL EXPRESS GRR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Envid:	1007099439
Registry ID:	110009600805
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009600805
Name:	FAST DELIVERY INC HANGAR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Envid:	1007099439

ENVOY AIR INC (Continued) **1007099439**

Registry ID:	110008456759
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008456759
Name:	DELTA AIR LINES GRAND RAPIDS
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Envid:	1007099439
Registry ID:	110013364091
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110013364091
Name:	ENVOY AIR INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A2 **AMR COMBS GRAND RAPIDS INC** **LUST U004246221**
Target **5500 44TH ST** **UST N/A**
Property **GRAND RAPIDS, MI 49512**

Site 2 of 77 in cluster A

Actual: **778 ft.**

LUST:

Name:	AMR COMBS GRAND RAPIDS INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00018301
Source:	STATE OF MICHIGAN
Owner Name:	NorthernAir Inc
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Amr Combs
Latitude:	42.88710
Longitude:	-85.53001
Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-1045-92
Release Date:	06/22/1992
Substance Released:	Used Oil
Release Status:	Closed
Release Closed Date:	09/19/1994
Leak Number:	C-1446-94
Release Date:	11/29/1994
Substance Released:	Other

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Release Status: Closed
Release Closed Date: 01/10/1997

Leak Number: C-2127-91
Release Date: 10/10/1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Name:	AMR COMBS GRAND RAPIDS INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00018301
Owner Name:	NORTHERN AIR INC
Owner Address:	PO BOX 888380
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49588-8380
Owner Contact:	Not reported
Owner Phone:	6163364707
Contact:	CHRISTOPHER REED
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	4
Capacity:	250
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	Not reported
Remove Date:	08/04/1992
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	AMR COMBS GRAND RAPIDS INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00018301
Owner Name:	NORTHERN AIR INC
Owner Address:	PO BOX 888380
Owner City:	GRAND RAPIDS

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Owner State:	MI
Owner Zip:	49588-8380
Owner Contact:	Not reported
Owner Phone:	6163364707
Contact:	CHRISTOPHER REED
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	16000
Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	05/06/1963
Remove Date:	10/28/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	AMR COMBS GRAND RAPIDS INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00018301
Owner Name:	NORTHERN AIR INC
Owner Address:	PO BOX 888380
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49588-8380
Owner Contact:	Not reported
Owner Phone:	6163364707
Contact:	CHRISTOPHER REED
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	16000

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	05/06/1963
Remove Date:	10/28/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

A3 Target Property **SMITHS INDUSTRIES**
5500 44TH ST SE
GRAND RAPIDS, MI 49512

RCRA NonGen / NLR **1000410053**
MID985574193

Site 3 of 77 in cluster A

Actual: 778 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		19951113
Handler Name:	SMITHS INDUSTRIES	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MID985574193
Contact Name:		CHARLES ULMER
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-241-7144
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4141 EASTERN AVE SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49508
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
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

SMITHS INDUSTRIES (Continued) **1000410053**

Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private

SMITHS INDUSTRIES (Continued) **1000410053**

Date Became Current:	19951201
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	19951113
Handler Name: SMITHS INDUSTRIES	
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:	Yes
Non Storage Recycler Activity:	Not reported

SMITHS INDUSTRIES (Continued) **1000410053**

Electronic Manifest Broker:	Not reported
Receive Date:	19891204
Handler Name: SMITHS INDUSTRIES	
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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	11131
NAICS Description:	ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported

SMITHS INDUSTRIES (Continued) **1000410053**

Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 19951016
Evaluation Responsible Agency: State
Found Violation: No
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: Not reported
Scheduled Compliance Date: Not reported
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

A4 Target Property **FAST DELIVERY INC HANGAR** **RCRA-VSQG** **1000213268**
5500 44TH ST SE **MID985567411**
GRAND RAPIDS, MI 49512

Site 4 of 77 in cluster A

Actual: 778 ft.

RCRA-VSQG:
Date Form Received by Agency: 19951024
Handler Name: FAST DELIVERY INC HANGAR
Handler Address: 5500 44TH ST SE
Handler City,State,Zip: GRAND RAPIDS, MI 49512
EPA ID: MID985567411
Contact Name: KURT BURMEISTER
Contact Address: 5500 44TH ST SE
Contact City,State,Zip: GRAND RAPIDS, MI 49512
Contact Telephone: 616-956-7733
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 05
Land Type: Private
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
State District: Not reported
Mailing Address: 3144 BROADMOOR AVE SE
Mailing City,State,Zip: GRAND RAPIDS, MI 49512
Owner Name: COUNTY OF KENT INTERNATIONAL AIRPORT
Owner Type: County
Operator Name: FEDERAL ARMORED SERV
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

FAST DELIVERY INC HANGAR (Continued) **1000213268**

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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

FAST DELIVERY INC HANGAR (Continued) **1000213268**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COUNTY OF KENT INTERNATIONAL AIRPORT
Legal Status:	County
Date Became Current:	19951024
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:	FEDERAL ARMORED SERV
Legal Status:	Private
Date Became Current:	19951002
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:	FEDERAL ARMORED SERV
Legal Status:	Private
Date Became Current:	19951002
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:	19951024
Handler Name:	FAST DELIVERY INC HANGAR
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:	11131
NAICS Description:	ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No

FAST DELIVERY INC HANGAR (Continued) **1000213268**

Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A5 **DELTA AIR LINES GRAND RAPIDS** **RCRA NonGen / NLR** **1000394767**
Target **5500 44TH ST SE** **MID985581321**
Property **GRAND RAPIDS, MI 49512**

Site 5 of 77 in cluster A

Actual: **778 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	19951020
Handler Name:	DELTA AIR LINES GRAND RAPIDS
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID985581321
Contact Name:	S HOPKINS
Contact Address:	5500 44TH ST SE
Contact City,State,Zip:	GRAND RAPIDS, MI 49512
Contact Telephone:	616-956-6360
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	County
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	DEPT 594 ATLANTA INTL AIRPORT
Mailing City,State,Zip:	ATLANTA, GA 30320
Owner Name:	COUNTY OF KENT
Owner Type:	County
Operator Name:	COUNTY OF KENT
Operator Type:	County
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	19951020
Handler Name:	DELTA AIR LINES GRAND RAPIDS
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19900621
Handler Name:	DELTA AIR LINES GRAND RAPIDS
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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A6 **FAA GRR ASR4** **LUST** **U004246180**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**

Site 6 of 77 in cluster A

Actual:
778 ft.

LUST:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00013884
Source:	STATE OF MICHIGAN
Owner Name:	FederalAviation Administration
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Faa Airway Facilities
Latitude:	42.88710
Longitude:	-85.53001
Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-0876-97
Release Date:	09/23/1997
Substance Released:	Diesel
Release Status:	Closed
Release Closed Date:	10/14/1997

Leak Number:	C-0892-98
Release Date:	09/21/1998
Substance Released:	Diesel
Release Status:	Closed
Release Closed Date:	07/19/1999

UST:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported

FAA GRR ASR4 (Continued) **U004246180**

Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	ASR4
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	04/08/1972
Remove Date:	09/10/1997
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported
Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	3LOC26L
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	04/08/1962

FAA GRR ASR4 (Continued) **U004246180**

Remove Date:	11/15/1988
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported
Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	1TOWER
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	04/08/1960
Remove Date:	11/16/1998
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

INVENTORY:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids

FAA GRR ASR4 (Continued) **U004246180**

District: Grand Rapids
Data Source: Risks Controlled
Location ID: 62382
Lust Name: Faa Airway Facilities
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

A7 **KENT CO. INTERNATIONAL AIRPORT** **RGA LUST** **S115681982**
Target Property **5500 44TH ST. SE** **N/A**
GRAND RAPIDS, MI

Site 7 of 77 in cluster A

Actual: 778 ft.
RGA LUST:
1991 KENT CO. INTERNATIONAL AIRPORT 5500 44TH ST. SE

A8 **HERTZ RENT-A-CAR** **RGA LUST** **S115679448**
Target Property **5500 44TH ST SE** **N/A**
GRAND RAPIDS, MI

Site 8 of 77 in cluster A

Actual: 778 ft.
RGA LUST:
1991 HERTZ RENT-A-CAR 5500 44TH ST SE

A9 **ENVOY AIR INC** **RCRA NonGen / NLR** **1006808471**
Target Property **5500 44TH ST SE** **MIK743613739**
GRAND RAPIDS, MI 49512

Site 9 of 77 in cluster A

Actual: 778 ft.
RCRA NonGen / NLR:

Date Form Received by Agency:		20140602
Handler Name:	ENVOY AIR INC	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK743613739
Contact Name:		JOHN S HANEY
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		817-931-2765
Contact Fax:		Not reported
Contact Email:		JOHN.HANEY@AA.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported

ENVOY AIR INC (Continued) **1006808471**

Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	ENVOY AIR INC
Owner Type:	Private
Operator Name:	ENVOY AIR INC
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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

ENVOY AIR INC (Continued) **1006808471**

Financial Assurance Required:	Not reported
Handler Date of Last Change:	20140610
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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:	ENVOY AIR INC
Legal Status:	Private
Date Became Current:	20140415
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:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805

ENVOY AIR INC (Continued) **1006808471**

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:	ENVOY AIR INC
Legal Status:	Private
Date Became Current:	20140415
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:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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:	20020805
Handler Name: AMERICAN EAGLE AIRLINES	
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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20020805
Handler Name: AMERICAN EAGLE AIRLINES	
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
Non Storage Recycler Activity:	Not reported

ENVOY AIR INC (Continued) **1006808471**

Electronic Manifest Broker: Not reported

Receive Date: 20140602
Handler Name: ENVOY AIR INC
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: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 481111
NAICS Description: SCHEDULED PASSENGER AIR TRANSPORTATION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20020520
Actual Return to Compliance Date: 20020627
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20031231
Enforcement Identifier: 001
Date of Enforcement Action: 20020520
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported

ENVOY AIR INC (Continued) **1006808471**

Final Amount: Not reported

Evaluation Action Summary:
Evaluation Date: 20020514
Evaluation Responsible Agency: State
Found Violation: Yes
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier: Not reported
Evaluation Responsible Sub-Organization: Not reported
Actual Return to Compliance Date: 20020627
Scheduled Compliance Date: 20031231
Date of Request: Not reported
Date Response Received: Not reported
Request Agency: Not reported
Former Citation: Not reported

A10 **KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTE** **LUST** **U004246326**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**

Site 10 of 77 in cluster A

Actual: **778 ft.**

LUST:
Name: KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512-
Facility ID: 00040196
Source: STATE OF MICHIGAN
Owner Name: KentCounty Dept of Aeronautics
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Grand Rapids
Site Name: Kent County International Airpor
Latitude: 42.88710
Longitude: -85.53001
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1188-89
Release Date: 12/19/1989
Substance Released: Not reported
Release Status: Closed

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Release Closed Date: 07/23/1992

UST:

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT3
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT2
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT1
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Diesel
Install Date:	10/13/1999
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	12/13/1999
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

INVENTORY:

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	48178
Lust Name:	Kent County International Airpor
Regulatory Program:	213
Release Status:	Closed
Project Manager:	Walquist, Barrett
Latitude:	42.887105
Longitude:	-85.530011

A11 **SIGNATURE FLIGHT-GRR-A FACILITY** **Financial Assurance** **S118615576**
Target **5500 44TH STREET SE 5460 44TH STR** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 11 of 77 in cluster A

Actual:
778 ft.

FINANCIAL ASSURANCE 3:

Name:	SIGNATURE FLIGHT-GRR-A FACILITY
Address:	5500 44TH STREET SE 5460 44TH STR
City,State,Zip:	GRAND RAPIDS, MI 49512
Facility ID:	00033129

SIGNATURE FLIGHT-GRR-A FACILITY (Continued) **S118615576**

Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

A12 **AVIS RENT A CAR SYSTEM INC** **LUST** **U003426020**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**

Site 12 of 77 in cluster A

Actual: **778 ft.**

LUST:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00016452
Source:	STATE OF MICHIGAN
Owner Name:	AvisRent A Car System LLC
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Avis Rent-a-car Facility
Latitude:	42.88710
Longitude:	-85.53001
Date of Collection:	01/12/1998
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-0097-07
Release Date:	06/01/2007
Substance Released:	Gasoline
Release Status:	Closed
Release Closed Date:	01/24/2008
Leak Number:	C-2645-90
Release Date:	12/12/1990
Substance Released:	Not reported

AVIS RENT A CAR SYSTEM INC (Continued) **U003426020**

Release Status: Closed
Release Closed Date: 02/16/1999

UST:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00016452
Owner Name:	AVIS RENT A CAR SYSTEM LLC
Owner Address:	6 SYLVAN WAY/SEPT 29-C93-36
Owner City:	PARSIPPANY
Owner State:	NJ
Owner Zip:	07054
Owner Contact:	Not reported
Owner Phone:	9734963467
Contact:	Michael Koch
Contact Phone:	(616) 949-8260
Date of Collection:	01/12/1998
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	12000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	01/11/1991
Remove Date:	05/15/2007
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00016452
Owner Name:	AVIS RENT A CAR SYSTEM LLC
Owner Address:	6 SYLVAN WAY/SEPT 29-C93-36
Owner City:	PARSIPPANY
Owner State:	NJ
Owner Zip:	07054
Owner Contact:	Not reported
Owner Phone:	9734963467
Contact:	Michael Koch
Contact Phone:	(616) 949-8260

AVIS RENT A CAR SYSTEM INC (Continued) **U003426020**

Date of Collection:	01/12/1998
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	10000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	03/10/1972
Remove Date:	12/04/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

INVENTORY:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	51611
Lust Name:	Avis Rent-a-car Facility
Regulatory Program:	213
Release Status:	Closed
Project Manager:	Walquist, Barrett
Latitude:	42.887105
Longitude:	-85.530011

A13 **BISSELL INC** **RCRA-VSQG** **1014391941**
Target **5500 44TH ST SE** **MIK392845467**
Property **GRAND RAPIDS, MI 49512**

Site 13 of 77 in cluster A

Actual: **778 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20100910
Handler Name:	BISSELL INC	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK392845467
Contact Name:		STEVE GEHRES
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-206-8041

BISSELL INC (Continued) **1014391941**

Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
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
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	BISSELL INC
Owner Type:	Private
Operator Name:	BISSELL INC
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:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A

BISSELL INC (Continued) **1014391941**

Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BISSELL INC
Legal Status:	Private
Date Became Current:	20101001
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:	BISSELL INC
Legal Status:	Private
Date Became Current:	20101001
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:	20100910
Handler Name: BISSELL INC	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

BISSELL INC (Continued) **1014391941**

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: 481211
NAICS Description: NONSCHEDULED CHARTERED PASSENGER AIR TRANSPORTATION

NAICS Code: 481219
NAICS Description: OTHER NONSCHEDULED AIR TRANSPORTATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A14 **LANDMARK AVIATION** **RCRA-VSQG** **1016453692**
Target **5500 44TH ST SE** **MIK857313202**
Property **GRAND RAPIDS, MI 49512**

Site 14 of 77 in cluster A

Actual: **778 ft.**

RCRA-VSQG:
Date Form Received by Agency: 20160922
Handler Name: LANDMARK AVIATION
Handler Address: 5500 44TH ST SE
Handler City,State,Zip: GRAND RAPIDS, MI 49512
EPA ID: MIK857313202
Contact Name: DAVID N HORRELL
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 616-336-4735
Contact Fax: 616-949-0732
Contact Email: DHORRELL@LANDMARKAVIATION.COM
Contact Title: Not reported
EPA Region: 05
Land Type: Private
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
State District: Not reported
Mailing Address: 5500 44TH ST SE
Mailing City,State,Zip: GRAND RAPIDS, MI 49512
Owner Name: LANDMARK AVIATION
Owner Type: Private
Operator Name: LANDMARK AVIATION
Operator Type: Private

LANDMARK AVIATION (Continued) **1016453692**

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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20161012
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

LANDMARK AVIATION (Continued) **1016453692**

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private

LANDMARK AVIATION (Continued) **1016453692**

Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	20160922
Handler Name: LANDMARK AVIATION	
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

LANDMARK AVIATION (Continued) **1016453692**

Electronic Manifest Broker: Not reported

Receive Date: 20131126
Handler Name: LANDMARK AVIATION
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20141006
Handler Name: LANDMARK AVIATION
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150622
Handler Name: LANDMARK AVIATION
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48819
NAICS Description: OTHER SUPPORT ACTIVITIES FOR AIR TRANSPORTATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A15 **INDEPENDENCE RECYCLING INC** **FINDS** **1008200095**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 15 of 77 in cluster A

Actual: **778 ft.**

FINDS:
Registry ID: 110021108772

Click Here:

Environmental Interest/Information System:
HAZARDOUS AIR POLLUTANT MAJOR

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

A16 **KENT COUNTY (CFR)** **LUST** **U003758710**
Target **5500 44TH ST** **INVENTORY** **N/A**
Property **GRAND RAPIDS, MI 49512** **SPILLS**
BEA

Site 16 of 77 in cluster A **Financial Assurance**
WDS

Actual: **778 ft.**

LUST:

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00018302
Source:	STATE OF MICHIGAN
Owner Name:	Highland Hickory Ridge LLC
Owner Address:	667 E Big Beaver Rd Ste 201
Owner City,St,Zip:	Troy, MI 48083-
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	US
District:	Grand Rapids
Site Name:	Amr Combs (ga Farm)
Latitude:	42.88569
Longitude:	-85.53158
Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-1016-96
Release Date:	12/06/1996
Substance Released:	Unknown
Release Status:	Closed
Release Closed Date:	03/17/1997
Leak Number:	C-1027-93

KENT COUNTY (CFR) (Continued) **U003758710**

Release Date: 08/23/1993
Substance Released: Other
Release Status: Closed
Release Closed Date: 10/30/1996

Leak Number: C-2091-90
Release Date: 10/19/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 02/04/1992

INVENTORY:
Name: AMR COMBS GRAND RAPIDS INC
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Present but Not Immediate
Location ID: 58530
Lust Name: Amr Combs
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

Name: SIGNATURE FLIGHT GRR C,D FACILITIES
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Controlled
Location ID: 44716
Lust Name: Amr Combs (ga Farm)
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.885697
Longitude: -85.531585

Name: KENT COUNTY (CFR)
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Not Determined
Location ID: 52600
Lust Name: United Airlines
Regulatory Program: 213
Release Status: Open
Project Manager: Walquist, Barrett
Latitude: 42.883137
Longitude: -85.524358

Name: SIGNATURE FLIGHT-GRR-B FACILITY
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids

KENT COUNTY (CFR) (Continued) **U003758710**

District: Grand Rapids
Data Source: Risks Controlled
Location ID: 42186
Lust Name: Kent Co. Airport East Ramp
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

PEAS:

Name:	Not reported
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI
Incident Date:	2012-08-15 00:00:00
Office Status:	AFTER HOURS
Initials of Incoming Operator:	DWA
Time Received by DNRE Staff:	1741
Time Occur:	Not reported
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	5500 44TH ST SE
Company Involved:	DELTA AIRLINES
DEQ Division Involved:	ON CALL
Incident Description:	DE-ICE TRUCK HOSE FAILURE.
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	8/15/2012
Time Discovered:	1530
Office/After Hours:	Not reported
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported

BEA:

Name:	GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)
Address:	5500 44TH STREET & 4199 CASSARD LANE SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	11/22/2021
Submitter Name:	Not reported
Petition Determination:	Not reported

KENT COUNTY (CFR) (Continued) **U003758710**

Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	41001285
Submittal Type:	BEA
Submittal Number:	41001285-BEA-1
Approval Status:	In Review
Workflow Status:	Submitted
Date Submitted:	Not reported
Date Completed:	00:00.0
Township:	Not reported
Work Unit:	Grand Rapids
Comments:	Not reported
Organization:	Avflight Grand Rapids Corporation
Contact:	Not reported
Contact Type:	Not reported

FINANCIAL ASSURANCE 3:

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00015000
Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00040196
Exempt:	No
Expiration Date:	03/23/2009
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2009

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055

KENT COUNTY (CFR) (Continued) **U003758710**

Facility ID:	00004115
Exempt:	No
Expiration Date:	07/01/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2018

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00018302
Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

WDS:

Name:	TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK289887432
WMD Id:	477398
Site Specific Name:	TSA - GERALD FORD INTERNATIONAL AIRPORT (GRR)
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

A17 **BISSELL INC** **FINDS** **1014729288**
Target **5500 44TH ST SE** **ECHO** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 17 of 77 in cluster A

Actual: **778 ft.**

FINDS:
Registry ID: 110043412606

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

BISSELL INC (Continued) **1014729288**

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

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

ECHO:

Envid:	1014729288
Registry ID:	110043412606
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110043412606
Name:	BISSELL INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A18 Target Property **CONTINENTAL EXPRESS GRR** **RCRA NonGen / NLR** **1000691407**
5500 44TH ST SE **MID985641703**
GRAND RAPIDS, MI 49512

Site 18 of 77 in cluster A

Actual: 778 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	19951020
Handler Name:	CONTINENTAL EXPRESS GRR
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID985641703
Contact Name:	KATHY KALLISZAK
Contact Address:	5500 44TH ST SE
Contact City,State,Zip:	GRAND RAPIDS, MI 49512
Contact Telephone:	616-956-6356
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	County
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	KENT COUNTY
Owner Type:	County
Operator Name:	KENT COUNTY
Operator Type:	County
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

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	19951020
Handler Name: CONTINENTAL EXPRESS GRR	
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

Receive Date: 19920505
Handler Name: CONTINENTAL EXPRESS GRR
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A19 **LANDMARK AVIATION** **UST** **1000704623**
Target **5500 44TH ST SE** **RCRA NonGen / NLR** **MID062226998**
Property **GRAND RAPIDS, MI 49512** **FINDS**
ECHO
Site 19 of 77 in cluster A **AIRS**

Actual: **778 ft.**

UST:

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B6
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B5
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711

LANDMARK AVIATION (Continued) **1000704623**

Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B4
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B3
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:		20170417
Handler Name:	LANDMARK AVIATION	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MID062226998
Contact Name:		ZECHARIAH D POST
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		616-336-4700 4781
Contact Fax:		616-949-0732
Contact Email:		ZECHARIAH.POST@LANDMARKAVIATION.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5500 44TH ST SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49512
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported

LANDMARK AVIATION (Continued) **1000704623**

Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20170421
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private

LANDMARK AVIATION (Continued) **1000704623**

Date Became Current:	20130701
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	19950815
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	Large 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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20050302
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960913
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020830
Handler Name: NORTHERN AIR INC	

LANDMARK AVIATION (Continued) **1000704623**

Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20021001
Handler Name: NORTHERN AIR INC	
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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20050314
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20090402
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20100413
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

LANDMARK AVIATION (Continued) **1000704623**

Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20131126
Handler Name: LANDMARK AVIATION	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20150513
Handler Name: LANDMARK AVIATION	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20160509
Handler Name: LANDMARK AVIATION	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20170417
Handler Name: LANDMARK AVIATION	
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Receive Date: 20170227
Handler Name: LANDMARK AVIATION
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960228
Handler Name: AMR COMBS-GRAND RAPIDS INC
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48811
NAICS Description: AIRPORT OPERATIONS

NAICS Code: 48819
NAICS Description: OTHER SUPPORT ACTIVITIES FOR AIR TRANSPORTATION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported

LANDMARK AVIATION (Continued) **1000704623**

Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting

LANDMARK AVIATION (Continued) **1000704623**

Date Violation was Determined:	19950808
Actual Return to Compliance Date:	19960131
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19950915
Enforcement Identifier:	001
Date of Enforcement Action:	19950810
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19950808
Actual Return to Compliance Date:	19960131
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19950915
Enforcement Identifier:	001
Date of Enforcement Action:	19950810
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20050302
Actual Return to Compliance Date: 20050314
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20050406
Enforcement Identifier: 001
Date of Enforcement Action: 20050303
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General

LANDMARK AVIATION (Continued) **1000704623**

Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported

LANDMARK AVIATION (Continued) **1000704623**

Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20050302
Actual Return to Compliance Date:	20050314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20050406
Enforcement Identifier:	001
Date of Enforcement Action:	20050303
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - General

LANDMARK AVIATION (Continued) **1000704623**

Date Violation was Determined:	19950808
Actual Return to Compliance Date:	19960131
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19950915
Enforcement Identifier:	001
Date of Enforcement Action:	19950810
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	19950808
Actual Return to Compliance Date:	19960131
Return to Compliance Qualifier:	Observed
Violation Responsible Agency:	State
Scheduled Compliance Date:	19950915
Enforcement Identifier:	001
Date of Enforcement Action:	19950810
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	Yes
Agency Which Determined Violation:	State
Violation Short Description:	Generators - Pre-transport
Date Violation was Determined:	20050302
Actual Return to Compliance Date:	20050314
Return to Compliance Qualifier:	Documented
Violation Responsible Agency:	State
Scheduled Compliance Date:	20050406
Enforcement Identifier:	001
Date of Enforcement Action:	20050303
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported
Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915

LANDMARK AVIATION (Continued) **1000704623**

Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20121129
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110009598015

Click Here:

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

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

ECHO:

Envid:	1000704623
Registry ID:	110009598015
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009598015
Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

AIRS:

Name:	HERTZ CORPORATION
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49508
State Registration Number:	N2692
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	SUSAN KLINGENSTEIN
Contact Phone:	2013072547
Contact Address:	225 BRAE BLVD
Contact City,St,Zip:	PARK RIDGE, NJ 7656

LANDMARK AVIATION (Continued) **1000704623**

Permit Number:	705-93
Date Received:	09/09/1993
Application Reason:	MODIFICATION
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	Active
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported
Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported
Federal Employer Id Number:	Not reported
# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A20 **FEDERAL EXPRESS CORP** **RCRA NonGen / NLR** **1000465750**
Target **5500 44TH ST SE** **FINDS** **MID985603919**
Property **KENTWOOD, MI 49512** **ECHO**

Site 20 of 77 in cluster A

Actual:
778 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20210830
Handler Name:	FEDERAL EXPRESS CORP	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		KENTWOOD, MI 49512
EPA ID:		MID985603919
Contact Name:		TIMOTHY JACKSON JR
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		901-434-8468
Contact Fax:		Not reported
Contact Email:		TJACKSON4@FEDEX.COM
Contact Title:		Not reported
EPA Region:		05

FEDERAL EXPRESS CORP (Continued) **1000465750**

Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	3620 HACKS CROSS RD
Mailing City,State,Zip:	MEMPHIS, TN 38125
Owner Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:	Private
Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No

FEDERAL EXPRESS CORP (Continued) **1000465750**

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:	20210921
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:	Operator
Owner/Operator Name:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20210502
Date Ended Current:	Not reported
Owner/Operator Address:	3620 HACKS CROSS RD
Owner/Operator City,State,Zip:	MEMPHIS, TN 38125-8800
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

FEDERAL EXPRESS CORP (Continued) **1000465750**

Owner/Operator Name:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20210502
Date Ended Current:	Not reported
Owner/Operator Address:	3620 HACKS CROSS RD
Owner/Operator City,State,Zip:	MEMPHIS, TN 38125-8800
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:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	19951113
Handler Name: FEDERAL EXPRESS CORP	
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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19910115
Handler Name: FEDERAL EXPRESS CORP	
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

FEDERAL EXPRESS CORP (Continued) **1000465750**

Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20210830
Handler Name: FEDERAL EXPRESS 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: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

NAICS Code: 492110
NAICS Description: COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported

FEDERAL EXPRESS CORP (Continued) **1000465750**

SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951019
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110003651842

Click Here:

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

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

ECHO:

Envid:	1000465750
Registry ID:	110003651842
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003651842
Name:	FEDERAL EXPRESS CORP
Address:	5500 44TH ST SE
City,State,Zip:	KENTWOOD, MI 49512

A21 **UNITED AIRLINES** **UST** **U003834707**
Target **5500 44TH ST** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 21 of 77 in cluster A

Actual: **778 ft.**

UST:

Name:	UNITED AIRLINES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED

UNITED AIRLINES (Continued) **U003834707**

Facility ID:	00039157
Owner Name:	UNITED AIRLINES
Owner Address:	5500 44TH ST SE GATE B-2
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6169490404
Contact:	SAM GEIGER
Contact Phone:	(616) 949-0404
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Hazardous Substance(1,PROPLYLENE/GLYCOL)
Install Date:	03/19/1974
Remove Date:	04/11/1997
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88569
Longitude:	-85.53158

A22 **PIEDMONT AIRLINES** **FINDS** **1007132964**
Target **5500 44TH ST SE** **ECHO** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 22 of 77 in cluster A

Actual:
778 ft.

FINDS:
Registry ID: 110015806831

Click Here:

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

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

PIEDMONT AIRLINES (Continued) **1007132964**

ECHO:

Envid:	1007132964
Registry ID:	110015806831
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110015806831
Name:	PIEDMONT AIRLINES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A23 **ERNS** **2007849493**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI 49512

Site 23 of 77 in cluster A

Actual: 778 ft.

Incident Commons:

NRC Report #:	849493
Description of Incident:	CALLER STATED THERE WAS A SPILL OF MATERIALS FROM A DAY TANK AT THE FACILITY.
Type of Incident:	STORAGE TANK
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2007-09-21 10:30:00
Incident DTG:	DISCOVERED
Incident Location:	GRAND RAPIDS AIR TRAFFIC CONTROL TOWER
Loaction Address:	5500 44TH STREET SE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	GRAND RAPIDS
Location State:	MI
Location County:	KENT
Location Zip:	49512
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	N

Incidents:

NRC Report #:	849493
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported

(Continued) **2007849493**

Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	Not reported
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	DAY TANK
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported

(Continued) **2007849493**

FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	849493
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	STORM DRAIN
Body of Water:	STORM DRAIN
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CALLER STATED THEY ARE USING A SPILL KIT WHICH WAS ON SITE ALONG WITH ABSORBENT PADS. CALLER STATED THE STORM DRAIN WAS ALSO COVERED.
State Agency on Scene:	NONE
State Agency Report Number:	NONE

(Continued) **2007849493**

Other Agency Notified:	Not reported
Weather Conditions:	OVERCAST
Air Temperature:	84
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER DID NOT HAVE ANY ADDITIONAL INFORMATION.
State Agency Notified:	NONE
Federal Agency Notified:	FAA
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO

Calls:

NRC Report #:	849493
Site ID:	2007849493
Date Time Received:	2007-09-21 11:52:14
Date Time Complete:	2007-09-21 12:00:32
Call Type:	INC
Responsible Company:	GRAND RAPIDS AIR TRAFFIC CONTROL TOWER
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	GRAND RAPIDS
Responsible State:	MI
Responsible Zip:	49512
On Behalf:	N
Source:	TELEPHONE

Material Involved:

NRC Report #:	849493

(Continued) **2007849493**

Chris Code:	OTD
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	41
Unit of Measure:	GALLON(S)
Name of Material:	OIL, FUEL: NO. 2-D
If Reached Water:	YES
Amount in Water:	20
Unit of Measure Reach Water:	GALLON(S)

A24 **KENT COUNTY INTERNAT'L AIRPORT** **PRP** **1026609694**
Target **5500 44TH STREET, SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 24 of 77 in cluster A

Actual: **778 ft.**

PRP:

Name:	KENT COUNTY INTERNAT'L AIRPORT
Address:	5500 44TH STREET, SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Superfund EPAID:	IND016360265
Superfund Name:	AMERICAN CHEMICAL SERVICE, INC.
Superfund Address:	420 SOUTH COLFAX AVENUE
Superfund City,State,Zip:	GRIFFITH, IN 46319
NPL Status:	Currently on the Final NPL
NPL Status Short Name:	Not reported
Data Type:	SETTLEMENT DATE
Action Date:	9/27/1994
Settlement Code:	AC-2
Settlement:	ADM ORDR
Latitude:	+41.514200
Longitude:	-87.419100

A25 **HERTZ CAR RENTAL** **AUL** **U003330661**
Target **5500 44TH ST SE** **WDS** **N/A**
Property **GRAND RAPIDS, MI 49512** **PFAS**

Site 25 of 77 in cluster A

Actual: **778 ft.**

AUL:

Name:	AVIS RENT-A-CAR SYSTEM INC. (G. FORD AIRPORT)
Address:	5500 44TH STREET
City,State,Zip:	GRAND RAPIDS, MI 48508
Status:	Recorded
Site Name:	Not reported
Property:	on-site location
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	04/27/2009
Legal Description Of Property:	Migrated
Based On The Deq Ref #:	11121307072
MDEQ Reference Number:	RC-RRD-213-07-072
Property Or Description Restricted Area:	Migrated
Lead Division:	STD

HERTZ CAR RENTAL (Continued) **U003330661**

File Name Of Hyperlinked Legal Doc:	U:\\Kermit\\11121307072.pdf
Mapped Polygons Area In Acres:	7.7731000000000003
Mapped Polygons Area In Square Miles:	0.0121
Date Data Entry Started:	04/27/2009
Date Data Entry Finished:	04/27/2009
Individual Or Staff Assoc With The Mapping:	Nicholas Ekel
Program Used To Map Restricted Features:	ArcINFO 9.3 & IcoMAP 4.0
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	12/07/2007
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	0
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	0
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	1
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0
Excavation And Soil Movement Restrictions:	0
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	0
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	Request received on 8/30/2007. Avis Rent-A-Car System Inc. (G. Ford Airport). 12/27/07, recorded copy received.
Map Comments:	Avis Rent-A-Car System Inc. (G. Ford Airport). This Restriction is NOT mapped in Kermit as of 01232008. The acreage and square mile calculation is for MDEQ Reference numbers RC-RRD-213-07-072, 073, 074, and 075. Only RC-RRD-213-07-072 contains the acre

Name:	HERTZ RENT-A-CAR (G. FORD AIRPORT)
Address:	5500 44TH STREET
City,State,Zip:	GRAND RAPIDS, MI 48512
Status:	Recorded
Site Name:	Not reported
Property:	Hertz Rent-A-Car (G. Ford Airport)
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	04/27/2009
Legal Description Of Property:	Migrated
Based On The Deq Ref #:	11121307074
MDEQ Reference Number:	RC-RRD-213-07-074
Property Or Description Restricted Area:	Migrated
Lead Division:	STD
File Name Of Hyperlinked Legal Doc:	U:\\Kermit\\11121307074.pdf
Mapped Polygons Area In Acres:	7.7731000000000003
Mapped Polygons Area In Square Miles:	0.0121
Date Data Entry Started:	04/27/2009
Date Data Entry Finished:	04/27/2009
Individual Or Staff Assoc With The Mapping:	Nicholas Swartz
Program Used To Map Restricted Features:	ArcInfo 9.3 and IcoMap 4.2

HERTZ CAR RENTAL (Continued) **U003330661**

Date Legal Paperwork Stamped/Filed/Register Of Deeds:	12/07/2007
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	0
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	0
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	1
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0
Excavation And Soil Movement Restrictions:	0
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	0
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	Request received on 8/30/2007
Map Comments:	Restriction is NOT mapped in Kermit as of 01232008. Acreage and square mile calculation is ERNIE under RC-RRD-213-07-072 20090427 - LUR is mapped in KERMIT under RC-RRD-213-07-072 - Nick Ekel 20100402 - Mapped as separate polygon - Nick Swartz

WDS:

Name:	BISSELL INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK392845467
WMD Id:	489106
Site Specific Name:	BISSELL CORPORATE HANGER
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	FAST DELIVERY INC HANGAR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID985567411
WMD Id:	401895
Site Specific Name:	FAST DELIVERY INC HANGAR
Mailing Address:	3144 BROADMOOR AVE SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	SMITHS INDUSTRIES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID985574193
WMD Id:	402325
Site Specific Name:	SMITHS INDUSTRIES HANGAR
Mailing Address:	4141 EASTERN AVE SE
Mailing City/State/Zip:	49508
Mailing County:	KENT

HERTZ CAR RENTAL (Continued) **U003330661**

Name: DELTA AIR LINES GRAND RAPIDS
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MID985581321
WMD Id: 402989
Site Specific Name: DELTA AIR LINES GRAND RAPIDS
Mailing Address: DEPT 594 ATLANTA INTL AIRPORT
Mailing City/State/Zip: 30320
Mailing County: Not reported

Name: FEDERAL EXPRESS CORP
Address: 5500 44TH ST SE
City,State,Zip: KENTWOOD, MI 49512
Site Id: MID985603919
WMD Id: 404365
Site Specific Name: FEDERAL EXPRESS CORP
Mailing Address: 3620 HACKS CROSS RD
Mailing City/State/Zip: 38125
Mailing County: Not reported

Name: CONTINENTAL EXPRESS GRR
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MID985641703
WMD Id: 407131
Site Specific Name: CONTINENTAL EXPRESS GRR
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: NATIONAL CAR RENTAL
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000039732
WMD Id: 418185
Site Specific Name: NATIONAL CAR RENTAL
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: NORTHWEST AIRLINES INC
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000059015
WMD Id: 424678
Site Specific Name: NORTHWEST AIRLINES
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: DELIVERY SERVICES
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000058165
WMD Id: 425774
Site Specific Name: DELIVERY SERVICES
Mailing Address: 5500 44TH ST SE

HERTZ CAR RENTAL (Continued) **U003330661**

Mailing City/State/Zip: 49512
Mailing County: KENT

Name: DYNAIR SERVICES
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000042429
WMD Id: 442273
Site Specific Name: DYNAIR SERVICES
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: US DEPT/TRANSPORTATION
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000042538
WMD Id: 442303
Site Specific Name: FAA
Mailing Address: 8808 BECK RD
Mailing City/State/Zip: 48111
Mailing County: WAYNE

Name: HERTZ CAR RENTAL
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000035066
WMD Id: 445794
Site Specific Name: HERTZ CAR RENTAL
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: BUDGET RENT A CAR
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000026908
WMD Id: 449482
Site Specific Name: BUDGET RENT A CAR
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: AVIS CAR RENTAL
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000026296
WMD Id: 449991
Site Specific Name: AVIS CAR RENTAL
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: PIEDMONT AIRLINES
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIK668647779

HERTZ CAR RENTAL (Continued) **U003330661**

WMD Id:	469413
Site Specific Name:	PIEDMONT AIRLINES
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT
Name:	ENVOY AIR INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK743613739
WMD Id:	469780
Site Specific Name:	ENVOY AIR INC
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

PFAS:

Name:	GERALD R. FORD INTERNATIONAL AIRPORT
Address:	5500 44TH STREET SW
City,State,Zip:	GRAND RAPIDS, MI 49512
Latitude:	42.886180000000003
Longitude:	-85.524636000000001
Hyperlink:	https://www.michigan.gov/pfasresponse/0,9038,7-365-86511_82704-487698--,00.html
Residential Wells Sampled:	Yes
Site Lead:	Aaron Assmann
Site Lead Email:	AssmannA@Michigan.gov
Site Lead Phone:	616-430-5275
Category:	Site
Type:	Airport

A26 **HERTZ RENT A CAR (AREA #1534-11)** **LUST** **U003330699**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**
NPDES

Site 26 of 77 in cluster A

Actual: **778 ft.**

LUST:

Name:	HERTZ RENT A CAR (AREA #1534-11)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00034246
Source:	STATE OF MICHIGAN
Owner Name:	TheHertz Corp
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Hertz Rental Car, Kent Co Airpor
Latitude:	42.88463
Longitude:	-85.53657
Date of Collection:	01/04/2002
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-0764-89
Release Date:	10/12/1989
Substance Released:	Not reported
Release Status:	Closed
Release Closed Date:	01/25/2008

UST:

Name:	HERTZ RENT A CAR (AREA #1534-11)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00034246
Owner Name:	THE HERTZ CORP
Owner Address:	8501 WILLIAMS RD
Owner City:	ESTERO
Owner State:	FL
Owner Zip:	33928
Owner Contact:	Not reported
Owner Phone:	Not reported
Contact:	Susan Pinera
Contact Phone:	(201) 307-2547
Date of Collection:	01/04/2002
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	10000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	01/01/1976
Remove Date:	05/09/2007
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88463
Longitude:	-85.53657

INVENTORY:

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

Name: HERTZ RENT A CAR (AREA #1534-11)
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Controlled
Location ID: 43852
Lust Name: Hertz Rental Car, Kent Co Airpor
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.884638
Longitude: -85.536579

MI NPDES:

Name:	GERALD R FORD INTL AIRPORT-GR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Permit Number:	MI0055735
Permitee PO Box:	N
Permitee Email:	Not reported
Issue Date:	04/30/2021
Effective Date:	06/01/2021
Expiration Date:	10/01/2025
Permittee Name:	Gerald R Ford International Airport Authority
Permittee Address:	5500 44TH ST SE
Permittee Addr2:	Not reported
Permittee City,St,Zip:	GRAND RAPIDS, MI 49512
Permit Type:	NPDES Individual Permit
Facility Name 2:	Not reported
Facility Name 3:	Not reported
Facility Name 4:	Not reported
Designed Name:	Gerald R Ford Intl Airport-GR
Latitude:	42.88275068440127
Lat Direction:	N
Lat Type Code:	LAT
Longitude:	-85.52529447631836
Lon Direction:	W
Lon Type Code:	LON
Hydrologic Unit Code:	4050007
Permit Status:	In Effect
COC Permit Category:	Industrial/Commercial
DEQ District Email:	Grand Rapids
DEQ Permit Compliance Manager:	Ryan Grant
DEQ Permit Compliance Manager Email:	grantr3@michigan.gov

Name:	GERALD R FORD INTL AIRPORT-GR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Permit Number:	MIR116870
Permitee PO Box:	Not reported
Permitee Email:	Not reported
Issue Date:	11/04/2021
Effective Date:	11/04/2021
Expiration Date:	05/01/2022
Permittee Name:	Michelle Baker, Gerald R. Ford International Airport Authority
Permittee Address:	5500 44th St. SE

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

Permittee Addr2:	Not reported
Permittee City,St,Zip:	Grand Rapids, MI 49512
Permit Type:	NPDES Construction Storm Water Notice of Coverage (NOC)
Facility Name 2:	Not reported
Facility Name 3:	Not reported
Facility Name 4:	Not reported
Designed Name:	Not reported
Latitude:	42.88275068440127
Lat Direction:	Not reported
Lat Type Code:	Not reported
Longitude:	-85.52529447631836
Lon Direction:	Not reported
Lon Type Code:	Not reported
Hydrologic Unit Code:	Not reported
Permit Status:	In Effect
COC Permit Category:	Not reported
DEQ District Email:	Grand Rapids
DEQ Permit Compliance Manager:	Brandie Jacobs Stefanski
DEQ Permit Compliance Manager Email:	stefanskib@michigan.gov

A27 **NORTHERN AIR INC** **RGA LUST** **S115688399**
Target Property **5500 44TH STREET (GA FARM)** **N/A**
GRAND RAPIDS, MI

Site 27 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2000	NORTHERN AIR INC	5500 44TH STREET (GA FARM)
1999	NORTHERN AIR INC	5500 44TH STREET (GA FARM)
1998	NORTHERN AIR INC	5500 44TH STREET (GA FARM)

A28 **NORTHERN AIR INC** **RGA LUST** **S115688398**
Target Property **5500 44TH ST SE** **N/A**
GRAND RAPIDS, MI

Site 28 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2004	NORTHERN AIR INC	5500 44TH ST SE
2003	NORTHERN AIR INC	5500 44TH ST SE
2001	NORTHERN AIR INC	5500 44TH ST SE

A29 **KENT COUNTY MAINTENANCE DEPT** **RGA LUST** **S115682000**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 29 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2000	KENT COUNTY MAINTENANCE DEPT	5500 44TH STREET SE

A30 **NORTHERN AIR INC** **RGA LUST** **S115688395**
Target **5500 44TH SREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 30 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012	NORTHERN AIR INC	5500 44TH SREET SE
2011	NORTHERN AIR INC	5500 44TH SREET SE
2010	NORTHERN AIR INC	5500 44TH SREET SE
2009	NORTHERN AIR INC	5500 44TH SREET SE
2008	NORTHERN AIR INC	5500 44TH SREET SE
2007	NORTHERN AIR INC	5500 44TH SREET SE
2006	NORTHERN AIR INC	5500 44TH SREET SE

A31 **KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTE** **RGA LUST** **S115682017**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 31 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE
2011 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE
2010 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE

A32 **NORTHERN AIR INC** **RGA LUST** **S115688397**
Target **5500 44TH ST (GA FARM)** **N/A**
Property **GRAND RAPIDS, MI**

Site 32 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2011	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2010	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2009	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2004	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2003	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2001	NORTHERN AIR INC	5500 44TH ST (GA FARM)

A33 **KENT COUNTY MAINTENANCE DEPT** **RGA LUST** **S115681999**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 33 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2009	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2008	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2007	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2006	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2005	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2004	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2003	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2001	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
1999	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE

KENT COUNTY MAINTENANCE DEPT (Continued) **S115681999**

1998 KENT COUNTY MAINTENANCE DEPT 5500 44TH ST SE
1997 KENT COUNTY MAINTENANCE DEPT 5500 44TH ST SE

A34 **KENT COUNTY INTL AIRPORT** **RGA LUST** **S115681998**
Target Property **5500 44TH ST SE** **N/A**
GRAND RAPIDS, MI

Site 34 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2000 KENT COUNTY INTL AIRPORT 5500 44TH ST SE
1999 KENT COUNTY INTL AIRPORT 5500 44TH ST SE
1998 KENT COUNTY INTL AIRPORT 5500 44TH ST SE
1997 KENT COUNTY INTL AIRPORT 5500 44TH ST SE

A35 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679431**
Target Property **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)** **N/A**
GRAND RAPIDS, MI

Site 35 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2008 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)

A36 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679430**
Target Property **KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)** **N/A**
GRAND RAPIDS, MI

Site 36 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2004 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)
2003 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)

A37 **KENT COUNTY (CFR)** **RGA LUST** **S115681987**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 37 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2012 KENT COUNTY (CFR) 5500 44TH STREET SE
2011 KENT COUNTY (CFR) 5500 44TH STREET SE
2010 KENT COUNTY (CFR) 5500 44TH STREET SE

A38 **KENT COUNTY DEPT OF AERONAUTICS** **RGA LUST** **S115681990**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 38 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2009	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2008	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2007	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2006	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2005	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE

A39 **KENT COUNTY DEPT OF AERONAUTICS** **RGA LUST** **S115681989**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 39 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2004	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE
2003	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE
2001	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE

A40 **FAA GRR ASR4** **RGA LUST** **S115674787**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 40 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2000	FAA GRR ASR4	5500 44TH STREET SE

A41 **KENT COUNTY INTERNATIONAL AIRP** **RGA LUST** **S115681994**
Target **5500 44TH ST.** **N/A**
Property **GRAND RAPIDS, MI**

Site 41 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

1991	KENT COUNTY INTERNATIONAL AIRP	5500 44TH ST.

A42 **NORTHERN AIR INC** **RGA LUST** **S115688400**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 42 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2000	NORTHERN AIR INC	5500 44TH STREET SE
1999	NORTHERN AIR INC	5500 44TH STREET SE
1998	NORTHERN AIR INC	5500 44TH STREET SE

A43 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679432**
Target Property **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)** **N/A**
GRAND RAPIDS, MI

Site 43 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2006 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)
2005 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)

A44 **HERTZ RENT A CAR** **RGA LUST** **S115679442**
Target Property **5500 44TH SE** **N/A**
GRAND RAPIDS, MI

Site 44 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

1999 HERTZ RENT A CAR 5500 44TH SE
1998 HERTZ RENT A CAR 5500 44TH SE
1997 HERTZ RENT A CAR 5500 44TH SE

A45 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679433**
Target Property **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)** **N/A**
GRAND RAPIDS, MI

Site 45 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2010 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)
2009 HERTZ RENT A CAR (AREA #1534-11) KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)

A46 **TSA - GERALD R FORD INTERNATIONAL AIRPORT** **ICIS** **1007451065**
Target Property **5500 44TH STREET SE** **FINDS** **N/A**
GRAND RAPIDS, MI 49512 **ECHO**

Site 46 of 77 in cluster A

Actual: **778 ft.**

ICIS:

Enforcement Action ID:	MI-49221770408134327
FRS ID:	110017871784
Action Name:	Violation Notice
Facility Name:	GERALD R FORD INTL AIRPORT-GR
Facility Address:	5500 44TH STREET S.E. GRAND RAPIDS, MI 49512
Enforcement Action Type:	Notice of Violation
Facility County:	KENT
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3728
Federal Facility ID:	Not reported
Latitude in Decimal Degrees:	42.870833
Longitude in Decimal Degrees:	-85.508333
Permit Type Desc:	NPDES Individual Permit
Program System Acronym:	MI0055735
Facility NAICS Code:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (Continued) **1007451065**

Tribal Land Code: Not reported

FINDS:
Registry ID: 110017871784

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1007451065
Registry ID: 110017871784
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110017871784
Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT
Address: 5500 44TH STREET SE
City,State,Zip: GRAND RAPIDS, MI 49512

A47 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665751**
Target Property **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 47 of 77 in cluster A

Actual: 778 ft.

RGA LUST:
2007 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A48 **SIGNATURE FLIGHT GRR C,D FACILITIES** **UST** **U003328903**
Target Property **5500 44TH ST** **N/A**
GRAND RAPIDS, MI 49512

Site 48 of 77 in cluster A

Actual: 778 ft.

UST:
Name: SIGNATURE FLIGHT GRR C,D FACILITIES
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS 49512-4055
Facility Type: ACTIVE
Facility ID: 00018302
Owner Name: Not reported

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	D-9
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Tank ID:	D-10
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	C-8
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	C-7
Capacity:	20000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(A Aviation Fuel)
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Christopher Reed
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	250
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	01/01/1971
Remove Date:	10/29/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88569
Longitude:	-85.53158

A49 **FAA GRR ASR4** **RGA LUST** **S115674786**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 49 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012	FAA GRR ASR4	5500 44TH ST SE
2011	FAA GRR ASR4	5500 44TH ST SE
2010	FAA GRR ASR4	5500 44TH ST SE
2009	FAA GRR ASR4	5500 44TH ST SE
2008	FAA GRR ASR4	5500 44TH ST SE
2007	FAA GRR ASR4	5500 44TH ST SE
2006	FAA GRR ASR4	5500 44TH ST SE
2005	FAA GRR ASR4	5500 44TH ST SE
2004	FAA GRR ASR4	5500 44TH ST SE
2003	FAA GRR ASR4	5500 44TH ST SE
2001	FAA GRR ASR4	5500 44TH ST SE

A50 **LANDMARK AVIATION** **WDS** **S114154633**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 50 of 77 in cluster A

Actual: **778 ft.**

WDS:

Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK857313202
WMD Id:	493199
Site Specific Name:	LANDMARK AVIATION - NORTH
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512

LANDMARK AVIATION (Continued) **S114154633**

Mailing County:	KENT
Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID062226998
WMD Id:	396689
Site Specific Name:	LANDMARK AVIATION
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

A51 **ALAMO RENT-A-CAR NATIONAL CAR RENTAL** **RGA LUST** **S115663879**
Target **5500 44TH SREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 51 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2005	ALAMO RENT-A-CAR NATIONAL CAR RENTAL	5500 44TH SREET SE

A52 **BUILDING 106, 5500 44TH STREET SE** **BEA** **S105966433**
Target **BUILDING 106, 5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 52 of 77 in cluster A

Actual: **778 ft.**

BEA:

Name:	BUILDING 106, 5500 44TH STREET SE
Address:	BUILDING 106, 5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Gerald R Ford International Airport
BEA Number:	1197
District:	Grand Rapids
Date Received:	05/12/2003
Submitter Name:	MIRAC, Inc.
Petition Determination:	No Request
Petition Disclosure:	0
Category:	S
Determination 20107A:	No Request
Reviewer:	colesb
Division Assigned:	STD
Location ID:	Not reported
Submittal Type:	Not reported
Submittal Number:	Not reported
Approval Status:	Not reported
Workflow Status:	Not reported
Date Submitted:	Not reported
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Not reported
Comments:	Not reported
Organization:	Not reported
Contact:	Not reported

BUILDING 106, 5500 44TH STREET SE (Continued) **S105966433**

Contact Type: Not reported

A53 **AMR COMBS - GRAND RAPIDS INC** **RGA LUST** **S115665082**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 53 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

1997	AMR COMBS - GRAND RAPIDS INC	5500 44TH STREET SE

A54 **AVIS RENT A CAR** **RGA LUST** **S115665762**
Target Property **5500 44TH ST.** **N/A**
GRAND RAPIDS, MI

Site 54 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

1991	AVIS RENT A CAR	5500 44TH ST.

A55 **AVIS RENT-A-CAR SYSTEM INC** **RGA LUST** **S115665765**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 55 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2000	AVIS RENT-A-CAR SYSTEM INC	5500 44TH STREET SE
1999	AVIS RENT-A-CAR SYSTEM INC	5500 44TH STREET SE
1998	AVIS RENT-A-CAR SYSTEM INC	5500 44TH STREET SE

A56 **AVIS RENT-A-CAR** **RGA LUST** **S115665768**
Target Property **5500 44TH ST SE** **N/A**
GRAND RAPIDS, MI

Site 56 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

1997	AVIS RENT-A-CAR	5500 44TH ST SE

A57 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665759**
Target **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
Property **GRAND RAPIDS, MI**

Site 57 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2011 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2010 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2009 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A58 **FAA AIRWAY FACILITIES** **RGA LUST** **S115674781**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 58 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

1997 FAA AIRWAY FACILITIES 5500 44TH ST SE

A59 **AVIS RENT-A-CAR SYSTEM INC** **RGA LUST** **S115665764**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 59 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2001 AVIS RENT-A-CAR SYSTEM INC 5500 44TH ST SE

A60 **AMR COMBS - GRAND RAPIDS INC** **RGA LUST** **S115665081**
Target **5500 44TH STREET (GA FARM)** **N/A**
Property **GRAND RAPIDS, MI**

Site 60 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

1997 AMR COMBS - GRAND RAPIDS INC 5500 44TH STREET (GA FARM)

A61 **FAA AIRWAY FACILITIES** **RGA LUST** **S115674782**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 61 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

1999	FAA AIRWAY FACILITIES	5500 44TH STREET SE
1998	FAA AIRWAY FACILITIES	5500 44TH STREET SE

A62 **INDEPENDENCE RECYCLING, INC** **AIRS** **S121720808**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 62 of 77 in cluster A

Actual: **778 ft.**

AIRS:

Name:	INDEPENDENCE RECYCLING, INC
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
State Registration Number:	N6958
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	BRIAN LOGUE
Contact Phone:	2165240999
Contact Address:	5531 CANAL ROAD
Contact City,St,Zip:	INDEPENDENCE, OH 44125
Permit Number:	74-01
Date Received:	02/07/2001
Application Reason:	GENERAL PTI - NON-METALLIC MINERAL CRUSHER
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	InActive
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported
Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported
Federal Employer Id Number:	Not reported

INDEPENDENCE RECYCLING, INC (Continued) **S121720808**

# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A63 **HMIRS** **9998090936**
Target Property **5500 44TH ST** **N/A**
GRAND RAPIDS, MI

Site 63 of 77 in cluster A

Actual: 778 ft.

HMIRS:

Report #:	1998090936
Site location:	5500 44TH ST GRAND RAPIDS, MI
Place of origin:	1855 ESTES AVE ELK GROVE, IL 60007
Destination:	EMBOSSING PRINTERS INC 4956 WAYNE ROAD BATTLE CREEK, MI 49015
Carrier ID:	13324
Carrier reporting #:	Not reported
Carrier:	FEDERAL EXPRESS CORP
Carrier address:	2900 BUSINESS PARK BLDG C MEMPHIS, TN 38118
Shipper ID:	41599
Shipper name:	VIDEOJET INK SOURCE
Shipper address:	1855 ESTES AVE ELK GROVE, IL 60007
Shipping paper number:	402-4137-1955 0
Consignee ID:	80350
Consignee name:	EMBOSSING PRINTERS INC
Consignee addess:	4956 WAYNE ROAD BATTLE CREEK, MI 49015
General cause:	10
Transportation mode:	Not reported
Date:	08/28/98
Commodity name:	PRINTING INK FLAMMABLE
Trade name:	Not reported
Amount:	0.01 GAL
Result:	Spillage
Hazard Class:	30
ID Number:	UN1210
Hazardous:	False
R.Q. met:	False
Misc. info:	100 100
Vehicle Type:	Aircraft
Trans. phase:	263
Land use:	272
Community:	281
Accident/Derailment:	False
Estimated speed:	F
Highway type:	999
number of lanes:	0
Number evacuated:	0
Major injuries:	0
Minor injuries:	0
Fatalities:	0
Product loss:	0

(Continued) **9998090936**

Carrier damage:	0
Pvt/Pub damage:	0
Cleanup cost:	0
Other damage:	0
Reported damage:	0
Incident damage:	0

Inner and Outer Container Information:

Container type:	CONT PLS
Container capacity:	0.26
Number failed:	1
Number in shipment:	9
Container gauge:	Not reported
Manufacture's ID:	16222
Manuf. name:	Not reported UNKNOWN, XX
Tank serial #:	Not reported
Label:	Not reported
Registration #:	Not reported
Inspection date:	/ /
Exemption #:	Not reported
Contributing cause:	Dropped
Contributing Object:	Roadway
Contributing failure:	OTHER
Affected side:	Top
Other contributing cause:	Closure
Capacity container code:	Not reported
Number failed code:	Not reported
Shipment code number:	Not reported
Container type:	BOX FBR
Container capacity:	2.63
Number failed:	1
Number in shipment:	1
Container gauge:	Not reported
Manufacture's ID:	16222
Manuf. name:	Not reported UNKNOWN, XX
Tank serial #:	Not reported
Label:	RED
Registration #:	Not reported
Inspection date:	/ /
Exemption #:	Not reported
Contributing cause:	Dropped
Contributing Object:	Roadway
Contributing failure:	NO RESPONSE
Affected side:	NO RESPONSE
Other contributing cause:	NO RESPONSE
Capacity container code:	Not reported
Number failed code:	Not reported
Shipment code number:	Not reported

Remarks:

PACKAGE WAS APPARENTLY DAMAGED DURING THE OFFLOAD SORTING OPERATION. THE FIBERBOARD BOX WAS NOTICED TO HAVE AN ODOR. THE PACKAGE WAS ISOLATED FROM THE OTHERS AND THE SPILL CLEANUP PERSON WAS NOTIFIED. SHIPMENT WAS PLACED INTO A SALVAGE DRUM AND THE SHIPPER WAS

(Continued) 9998090936

CONTACTED TO SEAK DISPOSITION.

A64 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665748**
Target Property **5500 44TH ST SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 64 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2004 AVIS RENT A CAR SYSTEM INC 5500 44TH ST SE KENT COUNTY AIRPORT

A65 **SPILLS** **S125717453**
Target Property **5500 44TH STREET SE, BLDG. 203** **N/A**
GRAND RAPIDS, MI

Site 65 of 77 in cluster A

Actual: 778 ft.

PEAS:

Name:	Not reported
Address:	5500 44TH STREET SE, BLDG. 203
City,State,Zip:	GRAND RAPIDS, MI
Incident Date:	10/21/2019
Office Status:	Not reported
Initials of Incoming Operator:	BF - EAC
Time Received by DNRE Staff:	Not reported
Time Occur:	13:06
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	Not reported
Company Involved:	Not reported
DEQ Division Involved:	RRD
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	Not reported
Time Discovered:	Not reported
Office/After Hours:	Office Hrs.
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported
Name:	Not reported
Address:	5500 44TH STREET SE, BLDG. 203
City,State,Zip:	GRAND RAPIDS, MI

(Continued) **S125717453**

Incident Date:	2019-10-21 00:00:00
Office Status:	Not reported
Initials of Incoming Operator:	BF - EAC
Time Received by DNRE Staff:	Not reported
Time Occur:	13:06
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	Not reported
Company Involved:	Not reported
DEQ Division Involved:	RRD
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	Not reported
Time Discovered:	Not reported
Office/After Hours:	Office Hrs.
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported

A66 **KENT COUNTY (CFR)** **LUST U004246060**
Target **5500 44TH ST** **UST N/A**
Property **GRAND RAPIDS, MI 49512**

Site 66 of 77 in cluster A

Actual: **778 ft.**

LUST:

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00004115
Source:	STATE OF MICHIGAN
Owner Name:	KentCounty Dept of Aeronautics
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	United Airlines
Latitude:	42.88313
Longitude:	-85.52435
Date of Collection:	05/14/2007
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS

KENT COUNTY (CFR) (Continued) **U004246060**

Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-2237-90
Release Date:	10/30/1990
Substance Released:	Not reported
Release Status:	Open
Release Closed Date:	Not reported

UST:

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Diesel
Install Date:	01/01/1983
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)

KENT COUNTY (CFR) (Continued) **U004246060**

Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	4
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	01/01/1983
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS

KENT COUNTY (CFR) (Continued) **U004246060**

Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	3
Capacity:	275
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	05/01/1960
Remove Date:	10/19/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	550
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	05/02/1983
Remove Date:	10/19/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported

KENT COUNTY (CFR) (Continued) **U004246060**

Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435
Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	12000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	05/02/1983
Remove Date:	10/03/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

A67 **TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)** **RCRA-VSQG** **1007370895**
Target **5500 44TH ST SE** **MIK289887432**
Property **GRAND RAPIDS, MI 49512**

Site 67 of 77 in cluster A

Actual: **778 ft.**

RCRA-VSQG:

Date Form Received by Agency:	20211110
Handler Name:	TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MIK289887432
Contact Name:	MICHAEL CLOUD

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	616-285-6631
Contact Fax:	Not reported
Contact Email:	MICHAEL.CLOUD@TSA.DHS.GOV
Contact Title:	Not reported
EPA Region:	05
Land Type:	Federal
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
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Owner Type:	County
Operator Name:	US TRANSPORTATION SECURITY ADMIN
Operator Type:	Federal
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20211123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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

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Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
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Owner/Operator Email:	Not reported

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Owner/Operator Email:	Not reported

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Legal Status:	Federal
Date Became Current:	20010101
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Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

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Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
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Owner/Operator City,State,Zip:	Not reported
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Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
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Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
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Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
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Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	19800101
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20040422
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20090210
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20100422
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20110407
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20121126
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Receive Date: 20121207
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20130612
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140729
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150706
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160830
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: Small Quantity Generator
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170823
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20180502
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190422
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20210419
Handler Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT
Federal Waste Generator Description: 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: No

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20211110
Handler Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

NAICS Code: 488119
NAICS Description: OTHER AIRPORT OPERATIONS

NAICS Code: 92612
NAICS Description: REGULATION AND ADMINISTRATION OF TRANSPORTATION PROGRAMS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A68 Target Property **SIGNATURE FLIGHT-GRR-A FACILITY**
5500 44TH STREET SE 5460 44TH STR
GRAND RAPIDS, MI 49512

UST **U003866166**
N/A

Site 68 of 77 in cluster A

Actual: 778 ft.

UST:
Name: SIGNATURE FLIGHT-GRR-A FACILITY
Address: 5500 44TH STREET SE 5460 44TH STR
City,State,Zip: GRAND RAPIDS 49512
Facility Type: ACTIVE
Facility ID: 00033129
Owner Name: Not reported
Owner Address: 5304 ROSS DR. SE
Owner City: GRAND RAPIDS
Owner State: MI
Owner Zip: 49512
Owner Contact: Not reported
Owner Phone: 6163364711
Contact: Not reported
Contact Phone: Not reported
Date of Collection: Not reported
Accuracy: Not reported

SIGNATURE FLIGHT-GRR-A FACILITY (Continued) **U003866166**

Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	A2
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Other(Jet A Aviation Fuel - Kerosine)
Install Date:	01/01/1981
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT-GRR-A FACILITY
Address:	5500 44TH STREET SE 5460 44TH STR
City,State,Zip:	GRAND RAPIDS 49512
Facility Type:	ACTIVE
Facility ID:	00033129
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	A1
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Other(Jet A Aviation Fuel - Kerosene)
Install Date:	01/01/1981
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported

SIGNATURE FLIGHT-GRR-A FACILITY (Continued) **U003866166**

Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

A69 Target Property **UNITED AIRLINES** **RGA LUST** **S115699182**
5500 44TH ST. SE **N/A**
GRAND RAPIDS, MI

Site 69 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

1991	UNITED AIRLINES	5500 44TH ST. SE	

A70 Target Property **LANDMARK AVIATION** **AST** **A100319826**
5500 44TH ST **N/A**
GRAND RAPIDS, MI 49512

Site 70 of 77 in cluster A

Actual: 778 ft.

AST:

Name:	LANDMARK AVIATION
Address:	5500 44TH ST
City:	GRAND RAPIDS
Zip:	49512-4055
Facility ID:	91084239
Owner Name:	PIEDMONT HAWTHORNE AVIATION LLC (DBA) LANDMARK AVIATION
Owner Address:	5500 44TH STREET SE BUILDING 403
Owner City,St,Zip:	GRAND RAPIDS, MI 49512
District:	3
Date of Collection:	01/11/2001
Accuracy:	100 FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Description Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
Horizontal Datum:	NAD83
Latitude:	42.8871050
Longitude:	-85.530011
Tank Id:	ATK-049833-15
Tank Status:	Currently In Use
Capacity (in gallons):	20000
Installation Date:	02/24/2000
Substance Stored:	Other
Removed/Closed Date:	Not reported
Tank Id:	ATK-055675-15
Tank Status:	Currently In Use
Capacity (in gallons):	12000
Installation Date:	02/24/2000

LANDMARK AVIATION (Continued) **A100319826**

Substance Stored: Other
Removed/Closed Date: Not reported

A71 **AMR COMBS GRAND RAPIDS INC** **RGA LUST** **S115665083**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 71 of 77 in cluster A

Actual: **778 ft.**

RGA LUST:

2012	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2011	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2010	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2009	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2008	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2007	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2006	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2005	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2004	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2003	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2001	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2000	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1999	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1998	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1997	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE

A72 **GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)** **INVENTORY** **S125156355**
Target **5500 44TH STREET; SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 72 of 77 in cluster A

Actual: **778 ft.**

INVENTORY:

Name:	GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)
Address:	5500 44TH STREET; SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Cascade
District:	Grand Rapids
Data Source:	Risks Present and Immediate
Location ID:	40310
Lust Name:	Not reported
Regulatory Program:	201
Release Status:	Not reported
Project Manager:	Assmann, Aaron
Latitude:	42.89244465
Longitude:	-85.51377124

A73 **INDEPENDENCE RECYCLING, INC** **AIRS** **S121720801**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 73 of 77 in cluster A

Actual: **778 ft.**

AIRS:

Name:	INDEPENDENCE RECYCLING, INC
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
State Registration Number:	N6948
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	BRIAN LOGUE
Contact Phone:	2165240999
Contact Address:	5531 CANAL ROAD
Contact City,St,Zip:	INDEPENDENCE, OH 44125
Permit Number:	134-01
Date Received:	04/05/2001
Application Reason:	GENERAL PTI - NON-METALLIC MINERAL CRUSHER
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	InActive
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported
Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported
Federal Employer Id Number:	Not reported
# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A74 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665750**
Target Property **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 74 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2008 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2006 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2005 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A75 **BUILDING 106, 5500 44TH STREET SE GERALD R FORD IN** **BEA** **S127500871**
Target Property **BUILDING 106, 5500 44TH STREET SE GERALD** **N/A**
KENT (County), MI 49512

Site 75 of 77 in cluster A

Actual: 778 ft.

BEA:

Name:	BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address:	BUILDING 106, 5500 44TH STREET SE GERALD
City,State,Zip:	MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	05/12/2003
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:	41002271
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200301197GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2004-01-31 07:29:04
Date Completed:	Not reported
Township:	Grand Rapids
Work Unit:	Grand Rapids
Comments:	Category A1 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Previous owner is assuming response activities.
Organization:	MIRAC, Inc.
Contact:	John D. Zaworski
Contact Type:	Submitter Contact

Name:	BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address:	BUILDING 106, 5500 44TH STREET SE GERALD, R FORD INTERNATIONAL AIRPORT
City,State,Zip:	MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	05/12/2003
Submitter Name:	Not reported
Petition Determination:	Not reported

BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONA (Continued) **S127500871**

Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	41002271
Submittal Type:	BEA
Submittal Number:	B200301197GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2004-01-31 07:29:04
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Grand Rapids
Comments:	Category A1 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Previous owner is assuming response activities.
Organization:	MIRAC, Inc.
Contact:	Not reported
Contact Type:	Submitter Contact

A76 Target Property **BUILDING 106, 5500 44TH STREET SE GERALD R FORD IN** **INVENTORY** **S127818575**
BUILDING 106; 5500 44TH STREET SE GERALD; R FORD INTERNATION **N/A**
KENT (County), MI 49512

Site 76 of 77 in cluster A

Actual: 778 ft.

INVENTORY:

Name:	BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address:	BUILDING 106; 5500 44TH STREET SE GERALD; R FORD INTERNATIONAL AIRPORT
City,State,Zip:	MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Not Determined
Location ID:	73064
Lust Name:	Not reported
Regulatory Program:	201
Release Status:	Not reported
Project Manager:	Hendershott, Abigail
Latitude:	NaN
Longitude:	NaN

A77 Target Property **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665749**
5500 44TH ST SE KENT COUNTY AIRPORT **N/A**
GRAND RAPIDS, MI

Site 77 of 77 in cluster A

Actual: 778 ft.

RGA LUST:

2003 AVIS RENT A CAR SYSTEM INC 5500 44TH ST SE KENT COUNTY AIRPORT

78
West
< 1/8
0.097 mi.
511 ft.

4211 CASSARD LANE, GRAND RAPIDS, MI 49512
4211 CASSARD LANE
GRAND RAPIDS, MI 49512

INVENTORY
BEA

S125715454
N/A

Relative:
Higher

Actual:
784 ft.

INVENTORY:

Name:	4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address:	4211 CASSARD LANE
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Cascade
District:	Grand Rapids
Data Source:	Risks Present but Not Immediate
Location ID:	77452
Lust Name:	Not reported
Regulatory Program:	201
Release Status:	Not reported
Project Manager:	Assmann, Aaron
Latitude:	42.88706085
Longitude:	-85.51535117

BEA:

Name:	4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address:	4211 CASSARD LANE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	08/23/2019
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:	41002299
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	41002299-BEA-1
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2019-08-30 12:27:27
Date Completed:	1/13/2020
Township:	Cascade
Work Unit:	Grand Rapids
Comments:	Groundwater sample found lead (41 ug/L).
Organization:	Avflight Grand Rapids Corporation
Contact:	Hain, Garrett
Contact Type:	Prospective Operator

Name:	4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address:	4211 CASSARD LANE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	08/23/2019
Submitter Name:	Not reported
Petition Determination:	Not reported

4211 CASSARD LANE, GRAND RAPIDS, MI 49512 (Continued) **S125715454**

Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	41002299
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	41002299-BEA-1
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2019-08-30 12:27:27
Date Completed:	1/13/2020
Township:	Cascade
Work Unit:	Grand Rapids
Comments:	Groundwater sample found lead (41 ug/L).
Organization:	Partner Engineering & Science, Inc.
Contact:	Cook, Susan
Contact Type:	Consultant

B79 **FEDERAL EXPRESS CORP** **RCRA-VSQG** **1010320596**
ESE **6450 AIR CARGO RD SE** **FINDS** **MIK663576650**
1/8-1/4 **GRAND RAPIDS, MI 49512** **ECHO**
0.243 mi.
1284 ft. **Site 1 of 2 in cluster B**

Relative: **Higher**
Actual: **786 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20060615
Handler Name:	ABX AIR INC	
Handler Address:		6450 AIR CARGO RD SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK663576650
Contact Name:		KEITH WALL
Contact Address:		6450 AIR CARGO RD SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-949-2842
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
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
State District:		Not reported
Mailing Address:		145 HUNTER DR
Mailing City,State,Zip:		WILMINGTON, OH 45177
Owner Name:		ABX AIR INC
Owner Type:		Private
Operator Name:		ABX AIR INC
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No

FEDERAL EXPRESS CORP (Continued) **1010320596**

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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

FEDERAL EXPRESS CORP (Continued) **1010320596**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ABX AIR INC
Legal Status:	Private
Date Became Current:	20060601
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:	ABX AIR INC
Legal Status:	Private
Date Became Current:	20060601
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:	20060615
Handler Name: ABX AIR INC	
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:	49211
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110003711332

FEDERAL EXPRESS CORP (Continued) **1010320596**

Click Here:

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

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

ECHO:

Envid:	1010320596
Registry ID:	110003711332
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003711332
Name:	FEDERAL EXPRESS CORP
Address:	6450 AIR CARGO RD SE
City,State,Zip:	GRAND RAPIDS, MI 49512

B80 **FEDERAL EXPRESS CORP** **RCRA-VSQG** **1004725343**
ESE **6450 AIR CARGO RD SE** **MIR000041392**
1/8-1/4 **GRAND RAPIDS, MI 49512**
0.243 mi.
1284 ft. **Site 2 of 2 in cluster B**

Relative: **Higher**
Actual: **786 ft.**

RCRA-VSQG:

Date Form Received by Agency:		19990813
Handler Name:	FEDERAL EXPRESS CORP	
Handler Address:		6450 AIR CARGO RD SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIR000041392
Contact Name:		DANIELLE CARTER
Contact Address:		6450 AIR CARGO RD SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		901-434-8509
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
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
State District:		Not reported
Mailing Address:		3620 HACKS CROSS ROAD
Mailing City,State,Zip:		MEMPHIS, TN 38194
Owner Name:		FEDEX
Owner Type:		Private
Operator Name:		FEDEX
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

FEDERAL EXPRESS CORP (Continued) **1004725343**

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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

FEDERAL EXPRESS CORP (Continued) **1004725343**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	FEDEX
Legal Status:	Private
Date Became Current:	19990801
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:	FEDEX
Legal Status:	Private
Date Became Current:	19990801
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:	19990813
Handler Name: FEDERAL EXPRESS CORP	
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:	484122
NAICS Description:	GENERAL FREIGHT TRUCKING, LONG-DISTANCE, LESS THAN TRUCKLOAD

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

81
ENE
1/4-1/2
0.305 mi.
1609 ft.

THRONAPPLE ENTERPRISES LLC (FAC10000281)
4190 THORNAPPLE RIVER DR SE
GRAND RAPIDS, MI 49031

LUST
INVENTORY

S125715398
N/A

Relative:
Lower

Actual:
777 ft.

LUST:

Name:	THRONAPPLE ENTERPRISES LLC (FAC10000281)
Address:	4190 THORNAPPLE RIVER DR SE
City,State,Zip:	GRAND RAPIDS, MI 49031
Facility ID:	00042998
Source:	Not reported
Owner Name:	Thornapple Enterprises LLC
Owner Address:	3717 Cherry Lane
Owner City,St,Zip:	Cassopolis, MI 49031
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Thornapple Enterprises LLC (Fac10000281)
Latitude:	Not reported
Longitude:	Not reported
Date of Collection:	Not reported
Method of Collection:	Not reported
Accuracy:	Not reported
Accuracy Value Unit:	Not reported
Horizontal Data:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-0192-19
Release Date:	09/03/2019
Substance Released:	Diesel,Diesel
Release Status:	Open
Release Closed Date:	Not reported

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

INVENTORY:

Name:	THORNAPPLE ENTERPRISES LLC
Address:	4190 THORNAPPLE RIVER DR
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Cascade
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	69089
Lust Name:	Not reported
Regulatory Program:	213
Release Status:	Open
Project Manager:	Walquist, Barrett

THRONAPPLE ENTERPRISES LLC (FAC10000281) (Continued) **S125715398**

Latitude: 42.88812626
Longitude: -85.50497406

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KENTWOOD	S125337637		44TH ST SE WALMA		CDL

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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 know 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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

Federal ERNS list

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

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 88

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4035
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 11/08/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9837
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Annually

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

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

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/21/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 86

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
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: 10/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/25/2022
Number of Days to Update: 84

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Annually

AST: Aboveground Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 75

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

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

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 26

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-4828
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

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

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

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/15/2016
Date Data Arrived at EDR: 02/02/2016
Date Made Active in Reports: 04/04/2016
Number of Days to Update: 62

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-4805
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

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

Date of Government Version: 01/19/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 83

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 88

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-5719
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

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

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 Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5136
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/01/2013
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 10/03/2014
Number of Days to Update: 0

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5103
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations.

Date of Government Version: 10/22/2021
Date Data Arrived at EDR: 11/23/2021
Date Made Active in Reports: 02/15/2022
Number of Days to Update: 84

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion. A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 41

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950a??s. 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: 11/12/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 80

Source: Department of Environment, Great Lakes & Energy
Telephone: 517-284-9278
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

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: 10/22/2021
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 03/31/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-7603
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

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: 06/30/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-8427
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/02/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 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: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
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.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
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: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 06/13/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

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

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
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
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

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

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

DOT OPS: Incident and Accident Data

Department of Transporation, 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
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: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
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.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 07/11/2022
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 1931and 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: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 03/15/2022
Date Data Arrived at EDR: 03/16/2022
Date Made Active in Reports: 03/21/2022
Number of Days to Update: 5

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-7074
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing
Asbestos

Date of Government Version: 01/31/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 15

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 13

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 05/23/2022
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: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 03/31/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4586
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 03/18/2022
Date Data Arrived at EDR: 03/30/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 14

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-6610
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing
Financial assurance information for underground storage tank facilities.

Date of Government Version: 12/20/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/21/2022
Number of Days to Update: 76

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-335-7279
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

Financial 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: 12/15/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 87

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

NPDES: List of Active NPDES Permits

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

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1300
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/18/2022
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1515
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-6562
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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

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.

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: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
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: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
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: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
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: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
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 and 2010 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® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

A1 AND A28
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

TARGET PROPERTY COORDINATES

Latitude (North):	42.886718 - 42ˆ 53' 12.18''
Longitude (West):	85.512406 - 85ˆ 30' 44.66''
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	621478.3
UTM Y (Meters):	4749093.5
Elevation:	778 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14450376 GRAND RAPIDS EAST, MI
Version Date:	2019
Northeast Map:	14457477 CASCADE, MI
Version Date:	2019
Southeast Map:	14457473 ALTO, MI
Version Date:	2019
Southwest Map:	14450350 CALEDONIA, 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).

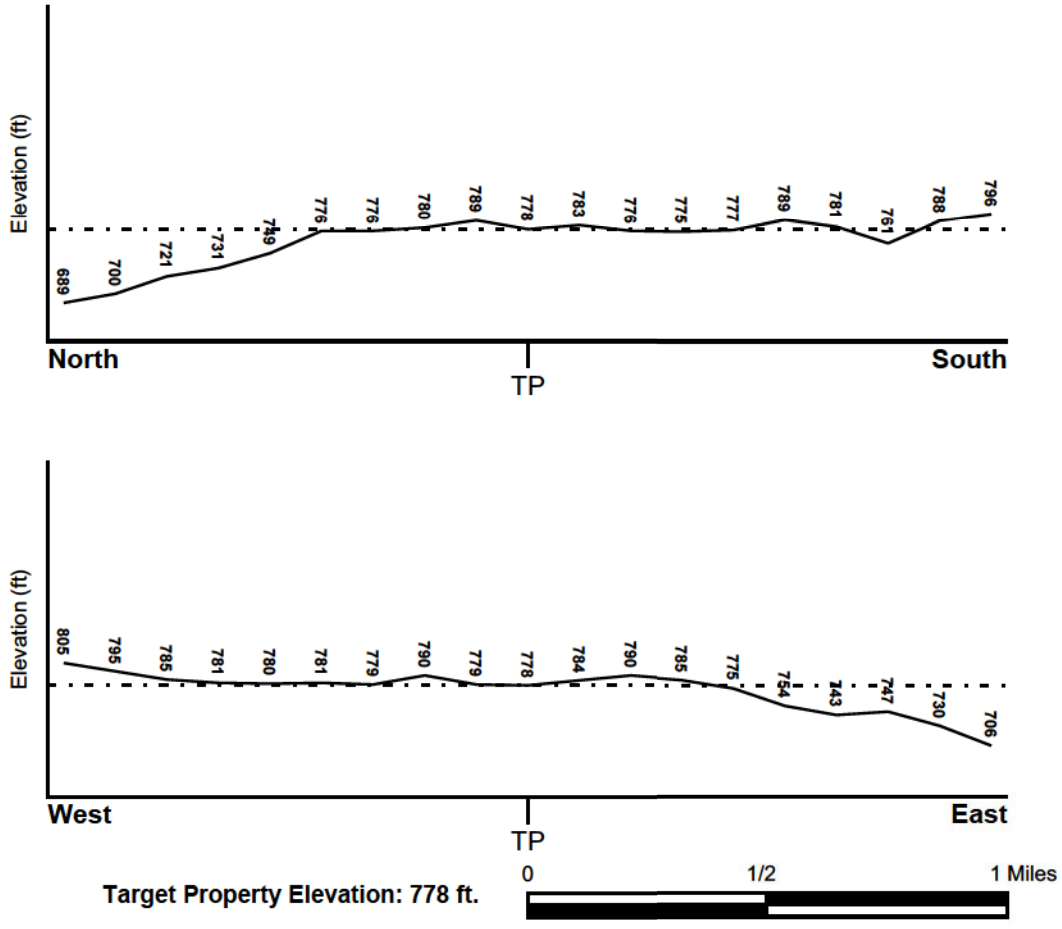
TOPOGRAPHIC INFORMATION

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 West

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

Flood Plain Panel at Target Property	FEMA Source Type
2608140025A	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
26015C0025C	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GRAND RAPIDS EAST	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
6	1/2 - 1 Mile WSW	S
1G	1/2 - 1 Mile WSW	S

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

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Mississippian
Series:	Meramecian Series
Code:	M2 *(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:	ITHACA
Soil Surface Texture:	loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

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

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.10
2	10 inches	15 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.10
3	15 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 7.80 Min: 5.10
4	24 inches	60 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 8.40 Min: 7.90

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: loamy sand
sandy loam

Surficial Soil Types: loamy sand
sandy loam

Shallow Soil Types: silty clay loam
loamy fine sand
sand
loamy sand

Deeper Soil Types: silty clay loam
clay
fine sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

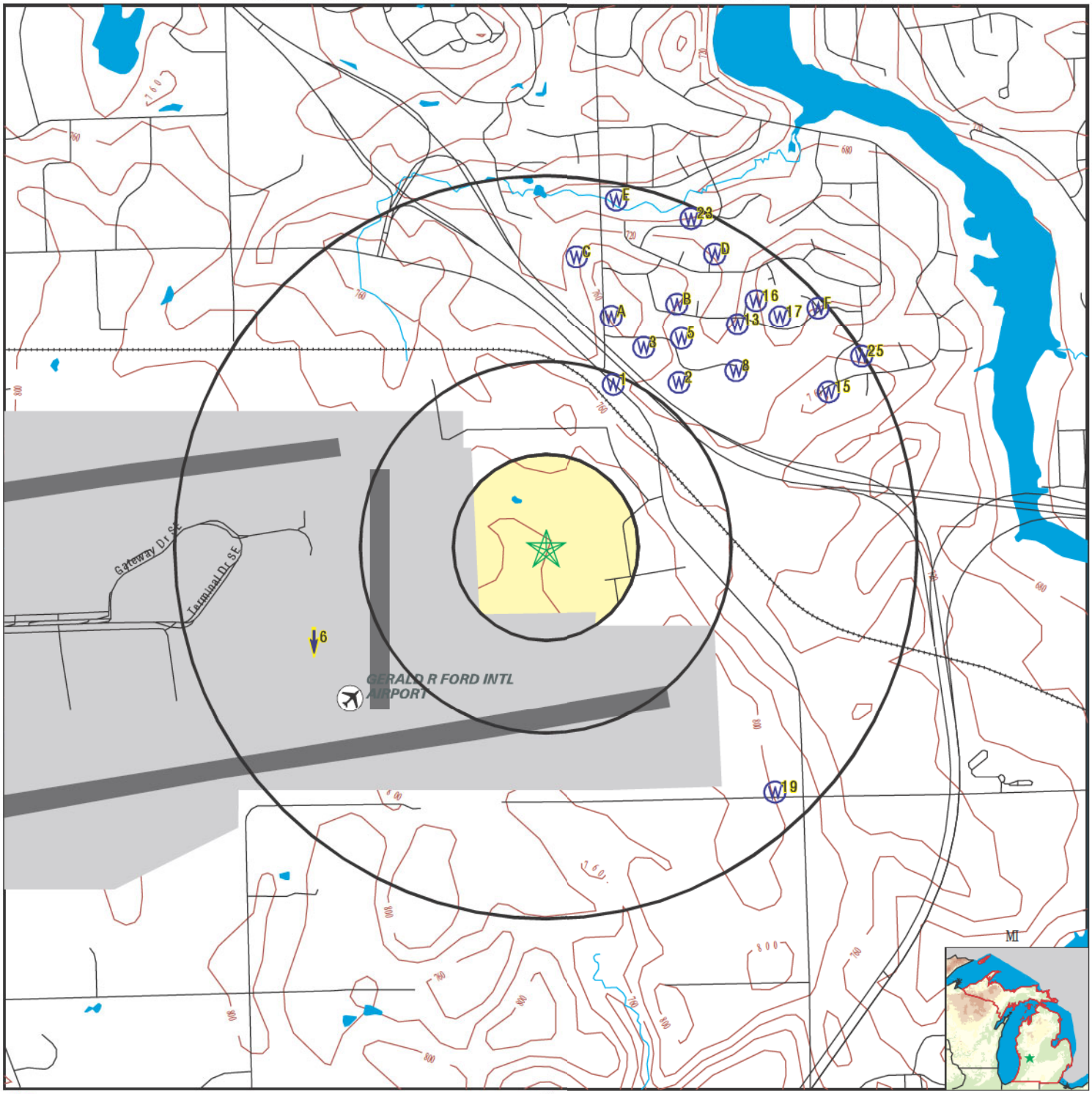
MAP ID	WELL ID	LOCATION FROM TP
1	MI5000000598252	1/4 - 1/2 Mile NNE
2	MI5000000598254	1/2 - 1 Mile NE
3	MI5000000610601	1/2 - 1 Mile NNE
A4	MI5000000611528	1/2 - 1 Mile NNE
5	MI5000000598251	1/2 - 1 Mile NNE
A7	MI5000000617723	1/2 - 1 Mile NNE
8	MI5000000619033	1/2 - 1 Mile NE
B9	MI5000000619927	1/2 - 1 Mile NNE
C10	MI5000000598238	1/2 - 1 Mile North
B11	MI5000000615934	1/2 - 1 Mile NNE
C12	MI5000000598250	1/2 - 1 Mile North
13	MI5000000605629	1/2 - 1 Mile NE
C14	MI5000000598253	1/2 - 1 Mile North
15	MI5000000639036	1/2 - 1 Mile ENE
16	MI5000000618782	1/2 - 1 Mile NE
17	MI5000000605612	1/2 - 1 Mile NE
D18	MI5000000614943	1/2 - 1 Mile NNE
19	MI5000000598324	1/2 - 1 Mile SE
D20	MI5000000604611	1/2 - 1 Mile NNE
E21	MI5000000598226	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
F22	MI5000000603782	1/2 - 1 Mile NE
23	MI5000000615748	1/2 - 1 Mile NNE
E24	MI5000000616521	1/2 - 1 Mile NNE
25	MI5000000616234	1/2 - 1 Mile ENE
F26	MI5000000616157	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 6946651.2s



- 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:	A1 and A28	CLIENT:	BLDI Consultants
ADDRESS:	5500 44th Street SE Grand Rapids MI 49512	CONTACT:	Rachel Kane
		INQUIRY #:	6946651.2s
LAT/LONG:	42.886718 / 85.512406	DATE:	April 19, 2022 3:24 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NNE** **1/4 - 1/2 Mile** **Lower**	**MI WELLS**	**MI5000000598252**

Well ID:	41000001952	Permit #:	Not Reported
Owner:	BEALL, TOM	Well Depth (ft):	93
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:	Not Reported	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19710220
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	85
Screen Start Depth (ft):	85	Screen End Depth (ft):	93
Static Water Level (ft):	32	Flowing:	N
Test Drawdown Depth:	32	Test Hours:	3
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	745	Specific Capacity:	0
Rock Top (ft):	0		

	Database	EDR ID Number
2 **NE** **1/2 - 1 Mile** **Lower**	**MI WELLS**	**MI5000000598254**

Well ID:	41000001954	Permit #:	Not Reported
Owner:	CASCADE TOWNSHIP	Well Depth (ft):	61
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2081941	Well #:	001
Driller ID:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19961004
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	53
Screen Start Depth (ft):	53	Screen End Depth (ft):	61
Static Water Level (ft):	27	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	13
Elevation (ft):	745	Specific Capacity:	0
Rock Top (ft):	0		

	Database	EDR ID Number
3 **NNE** **1/2 - 1 Mile** **Lower**	**MI WELLS**	**MI5000000610601**

Well ID:	41000016507	Permit #:	Not Reported
Owner:	CASCADE CHARTER TWP	Well Depth (ft):	98
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2001741	Well #:	001
Driller ID:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20040714

Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	85
Screen Start Depth (ft):	85	Screen End Depth (ft):	98
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	40	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	13
Elevation (ft):	748	Specific Capacity:	0
Rock Top (ft):	0		

A4
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000611528**

Well ID:	41000017498	Permit #:	Not Reported
Owner:	KEVIN MAUER	Well Depth (ft):	100
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:	70-2055	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20050429
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	90
Screen Start Depth (ft):	90	Screen End Depth (ft):	100
Static Water Level (ft):	68	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	3
Test Water Flow Rate:	15	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

5
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598251**

Well ID:	41000001951	Permit #:	Not Reported
Owner:	SHURLOW CUSTOM HOMES	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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19870225
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	105
Screen Start Depth (ft):	105	Screen End Depth (ft):	110
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	60	Test Hours:	1
Test Water Flow Rate:	42	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	740	Specific Capacity:	0
Rock Top (ft):	0		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database | EDR ID Number

6
WSW
1/2 - 1 Mile
Higher

AQUIFLOW **27728**

Site ID:	410423
Groundwater Flow:	S
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	2.3
Date:	09/01/1992

A7
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000617723**

Well ID:	41000025373	Permit #:	Not Reported
Owner:	Sable Developing	Well Depth (ft):	103
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:	41-2351	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20131023
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	98
Screen Start Depth (ft):	98	Screen End Depth (ft):	103
Static Water Level (ft):	68	Flowing:	N
Test Drawdown Depth:	103	Test Hours:	2
Test Water Flow Rate:	25	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

8
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000619033**

Well ID:	41000026925	Permit #:	Not Reported
Owner:	cascade twp	Well Depth (ft):	183
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:	41-2351	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20160428
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	163
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	42	Flowing:	N
Test Drawdown Depth:	140	Test Hours:	2
Test Water Flow Rate:	75	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	60
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	145		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
MI WELLS	MI5000000619927

B9
NNE
1/2 - 1 Mile
Lower

Well ID:	41000027978	Permit #:	Not Reported
Owner:	Ben	Well Depth (ft):	99
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:	70-1922	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20170717
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	94
Screen Start Depth (ft):	94	Screen End Depth (ft):	99
Static Water Level (ft):	39	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	1
Test Water Flow Rate:	30	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

C10
North
1/2 - 1 Mile
Lower

Database	EDR ID Number
MI WELLS	MI5000000598238

Well ID:	41000001938	Permit #:	Not Reported
Owner:	DRACHT, TOM BLDR	Well Depth (ft):	55
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19801120
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	47
Screen Start Depth (ft):	47	Screen End Depth (ft):	55
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	730	Specific Capacity:	0
Rock Top (ft):	0		

B11
NNE
1/2 - 1 Mile
Lower

Database	EDR ID Number
MI WELLS	MI5000000615934

Well ID:	41000023277	Permit #:	Not Reported
Owner:	MARK MAMCZARZ	Well Depth (ft):	73
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:	41-0395	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20111111

Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	63
Screen Start Depth (ft):	63	Screen End Depth (ft):	73
Static Water Level (ft):	29	Flowing:	N
Test Drawdown Depth:	32	Test Hours:	2
Test Water Flow Rate:	55	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	20
Elevation (ft):	0	Specific Capacity:	1.71875
Rock Top (ft):	0		

C12
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598250**

Well ID:	41000001950	Permit #:	Not Reported
Owner:	BROYLES, DAVID	Well Depth (ft):	60
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19821203
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	52
Screen Start Depth (ft):	52	Screen End Depth (ft):	60
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	772	Specific Capacity:	0
Rock Top (ft):	0		

13
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000605629**

Well ID:	41000010635	Permit #:	Not Reported
Owner:	JIM CHRISTIANS	Well Depth (ft):	97
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20000803
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	89
Screen Start Depth (ft):	89	Screen End Depth (ft):	97
Static Water Level (ft):	81	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	14	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	10
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

C14
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598253**

Well ID:	41000001953	Permit #:	Not Reported
Owner:	QUIGLEY ASSOC.	Well Depth (ft):	75
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19800122
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	70
Screen Start Depth (ft):	70	Screen End Depth (ft):	75
Static Water Level (ft):	50	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	750	Specific Capacity:	0
Rock Top (ft):	0		

15
ENE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000639036**

Well ID:	41000048250	Permit #:	Not Reported
Owner:	RON RODEN	Well Depth (ft):	135
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:	41-2028	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20210429
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	128
Screen Start Depth (ft):	128	Screen End Depth (ft):	135
Static Water Level (ft):	93	Flowing:	N
Test Drawdown Depth:	133	Test Hours:	1
Test Water Flow Rate:	100	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

16
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000618782**

Well ID:	41000026603	Permit #:	Not Reported
Owner:	KEVIN IRLAND	Well Depth (ft):	98
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:	41-2028	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20151207

Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	89
Screen Start Depth (ft):	89	Screen End Depth (ft):	98
Static Water Level (ft):	58	Flowing:	N
Test Drawdown Depth:	96	Test Hours:	1
Test Water Flow Rate:	22	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	18
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

17
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000605612**

Well ID:	41000010618	Permit #:	Not Reported
Owner:	JIM JANN	Well Depth (ft):	123
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20000710
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	115
Screen Start Depth (ft):	115	Screen End Depth (ft):	123
Static Water Level (ft):	89	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	30	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

D18
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000614943**

Well ID:	41000021987	Permit #:	Not Reported
Owner:	JASON BRINKS	Well Depth (ft):	109
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:	41-1994	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20090106
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	104
Screen Start Depth (ft):	105	Screen End Depth (ft):	109
Static Water Level (ft):	64	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	1
Test Water Flow Rate:	25	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	12
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
MI WELLS	MI5000000598324

19
SE
1/2 - 1 Mile
Higher

Well ID:	41000002027	Permit #:	Not Reported
Owner:	FORBES, HAROLD	Well Depth (ft):	145
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:	41-0073	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19790623
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	140
Screen Start Depth (ft):	140	Screen End Depth (ft):	145
Static Water Level (ft):	103	Flowing:	N
Test Drawdown Depth:	103	Test Hours:	1
Test Water Flow Rate:	30	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	802	Specific Capacity:	0
Rock Top (ft):	0		

D20
NNE
1/2 - 1 Mile
Lower

Database	EDR ID Number
MI WELLS	MI5000000604611

Well ID:	41000009592	Permit #:	Not Reported
Owner:	Dawn Bronkema	Well Depth (ft):	145
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:	41-1095	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20020315
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	140
Screen Start Depth (ft):	140	Screen End Depth (ft):	145
Static Water Level (ft):	63	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	.5
Test Water Flow Rate:	15	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0.1875
Rock Top (ft):	0		

E21
North
1/2 - 1 Mile
Lower

Database	EDR ID Number
MI WELLS	MI5000000598226

Well ID:	41000001926	Permit #:	Not Reported
Owner:	SHURLOW, BILL	Well Depth (ft):	87
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19751108

Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	82
Screen Start Depth (ft):	82	Screen End Depth (ft):	87
Static Water Level (ft):	40	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	680	Specific Capacity:	0
Rock Top (ft):	0		

F22
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000603782**

Well ID:	41000008246	Permit #:	Not Reported
Owner:	Mike Hekstra	Well Depth (ft):	92
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:	41-0384	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20000324
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	82
Screen Start Depth (ft):	82	Screen End Depth (ft):	92
Static Water Level (ft):	58	Flowing:	N
Test Drawdown Depth:	85	Test Hours:	2
Test Water Flow Rate:	15	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0.17647059
Rock Top (ft):	0		

23
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000615748**

Well ID:	41000023042	Permit #:	Not Reported
Owner:	Kevin Yoder	Well Depth (ft):	70
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20110616
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	60
Screen Start Depth (ft):	60	Screen End Depth (ft):	70
Static Water Level (ft):	44	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	1
Test Water Flow Rate:	33	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	14
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

E24
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000616521**

Well ID:	41000024015	Permit #:	Not Reported
Owner:	DAVID REESE	Well Depth (ft):	48
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:	41-0395	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20130516
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	38
Screen Start Depth (ft):	38	Screen End Depth (ft):	48
Static Water Level (ft):	2	Flowing:	N
Test Drawdown Depth:	12	Test Hours:	2
Test Water Flow Rate:	40	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	3.33333333
Rock Top (ft):	0		

25
ENE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000616234**

Well ID:	41000023651	Permit #:	Not Reported
Owner:	Gary Koff	Well Depth (ft):	123
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20120827
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	114
Screen Start Depth (ft):	114	Screen End Depth (ft):	118
Static Water Level (ft):	87	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	.5
Test Water Flow Rate:	70	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

F26
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000616157**

Well ID:	41000023557	Permit #:	Not Reported
Owner:	Pete Donker	Well Depth (ft):	130
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:	03-1601	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20120625

Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	120
Screen Start Depth (ft):	120	Screen End Depth (ft):	130
Static Water Level (ft):	70	Flowing:	N
Test Drawdown Depth:	90	Test Hours:	1
Test Water Flow Rate:	20	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

1G
WSW
1/2 - 1 Mile
Lower

Site ID:	410423
Groundwater Flow:	S
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	2.3
Date:	09/01/1992

AQUIFLOW **27728**

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
49512	12/28/1998	<	0.3
49512	8/21/2003		0.5
49512	2/3/2004	<	0.3
49512	10/3/2006	<	0.3
49512	11/11/2005		0.5
49512	3/17/2007		0.5
49512	10/8/2004	<	0.3
49512	3/3/2003	<	0.3
49512	2/10/2003	<	0.3
49512	2/18/2002	<	0.3
49512	2/16/2004	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	5/12/2008	<	0.3
49512	10/6/2008	<	0.3
49512	12/8/2001	<	0.3
49512	11/7/1998	<	0.3
49512	4/16/2008	<	0.3
49512	3/12/2002		0.8
49512	11/26/2001		0.8
49512	2/1/2002		0.7
49512	1/19/2004		0.7
49512	2/4/2002		0.8
49512	10/2/2003		0.8
49512	4/2/2007		0.8
49512	11/5/1999		0.7
49512	4/4/2008		0.9
49512	1/24/2009		0.8
49512	9/15/2009		0.8
49512	2/22/2000		0.9
49512	11/8/1999		0.9
49512	2/3/2009		0.6
49512	11/2/1998		0.5
49512	11/19/2001		0.7
49512	11/23/1998		0.6
49512	3/26/1997		0.6
49512	11/9/1998		0.5
49512	11/13/1998		0.5
49512	12/22/1998		0.7
49512	12/2/1998		0.7
49512	3/30/2009		0.9
49512	1/11/1999		0.5
49512	12/18/1998		0.7
49512	12/21/2002		0.6
49512			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	12/26/2006		1.6
49512	11/16/2007		1.5
49512	5/4/2009		1.5
49512	8/5/2002		1.5
49512	11/24/2001		1.5
49512	11/26/2001		1.4
49512	3/9/2009		1.4
49512	10/3/2008		1.4
49512	11/1/2008		1.4
49512	10/29/1998		1.3
49512	12/9/1998		1.2
49512	2/2/2009		1.3
49512	2/16/2001		1.2
49512	12/18/2006		1.2
49512	4/30/1998		1.1
49512	11/20/2000		1.1
49512	4/14/2008		1.1
49512	3/3/2003		1.0
49512	2/2/2009		1.1
49512	2/2/2009		1.1
49512	12/8/2008		1.1
49512	2/12/1999		1.0
49512	1/25/2008		1.0
49512	10/27/2000		4.2
49512	9/26/2008		4.3
49512	2/22/2002		1.8
49512	7/31/2009		1.8
49512	12/18/1998		1.7
49512	11/29/2002		1.7
49512	7/31/2009		6.3
49512	8/27/2001		6.1
49512	11/6/1998		4.7
49512	12/18/1998		5.0
49512	11/17/1998		4.6
49512	10/30/1997		5.2
49512	10/10/1998		11.0
49512	7/24/2006		8.1
49512	11/19/2009		2.0
49512	11/18/1998		0.8
49512	11/2/1998		2.5
49512	4/10/1998		2.4
49512	11/27/1999		2.3
49512	11/18/2000		2.3
49512	2/2/2009		2.3
49512	11/16/1998		2.7
49512	11/17/1998		2.9
49512	2/5/2007		2.7
49512	8/21/2008		2.7
49512	2/17/2009	<	0.3
49512	11/20/2000	<	0.3
49512	12/6/1999	<	0.3
49512	6/11/2001	<	0.3
49512	6/1/2007		3.2
49512	12/19/2000	<	0.3
49512	7/3/2009	<	0.3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KENT County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KENT COUNTY, MI

Number of sites tested: 72

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.797 pCi/L	93%	7%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Environmental Quality
Telephone: 517-335-9218
The data in this file was obtained from Wellogic, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogic 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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APPENDIX E

Historical Research Documentation

BLDI

Phase I Environmental Site Assessment

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.8

April 19, 2022

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.8

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1999	1"=500'	Acquisition Date: April 13, 1999	USGS/DOQQ
1987	1"=500'	Flight Date: June 23, 1987	USDA
1981	1"=500'	Flight Date: May 02, 1981	USDA
1978	1"=500'	Flight Date: July 17, 1978	USDA
1974	1"=500'	Flight Date: April 01, 1974	USGS
1965	1"=500'	Flight Date: November 01, 1965	USGS
1955	1"=500'	Flight Date: October 10, 1955	USDA
1938	1"=500'	Flight Date: July 04, 1938	USDA

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INQUIRY #: 6946651.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 2006
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1999
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1987
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1978
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1974
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1965
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1955
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1938
= 500'
N
EDR

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.3

April 19, 2022

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.3

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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

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

Certified Sanborn Results:

Certification # A646-4A2D-B4CE

PO # 225360.01

Project A1 and A28

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 #: A646-4A2D-B4CE

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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CASCADE CHARTER TOWNSHIP

5920Tahoe Dr. SE Grand Rapids, Michigan 49546

Notice of Denial of FOIA Request

Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq.*

RE: Request for ☑ Copy ☐ Certified copy ☐ Record inspection ☐ Subscription to record

Name: ASHLEY PLOCHARCZYK	Phone: 616-459-3737
Firm/Organization: BLDI, INC.	Fax:
Street: 39111 SIX MILE ROAD	Email: ashleyp@bldi.com
City: LIVONIA	State: MI Zip: 48152

Date Request Received: 4/25/22 **Date of This Response:** 4/25/22

Record(s) Requested: SEE ATTACHED

☑ **All** or ☐ **part of your request for records has been denied. Please refer to this form for an explanation. If you have any questions regarding this denial, contact** Ben Swayze **at** bswayze@cascadetwp.com.

Reason for Denial:

☐ **1. This item is exempt from disclosure under FOIA Section 13, Subsection (_____), because:** _____.

☑ **2. This item does not exist under the name provided in your request or by another name reasonably known to the township. If you believe this record does exist, provide a description that will enable us to locate the record.**

NO RELEVANT RECORDS LOCATED.

☐ **3. A portion of the requested record had to be separated or deleted as it is exempt under FOIA Section 13, Subsection (_____), because:** _____.

A brief description of the information that had to be separated or deleted: _____.

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the Township Supervisor or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If you are successful in asserting the right to inspect or to receive a copy of a public record or a portion of a public record in court, the court will award reasonable attorney fees, costs, and disbursements. If you prevail in part of your action, the court may in its discretion award reasonable attorney fees, costs, and disbursements or an appropriate portion of those attorney fees, costs, and disbursements. (*See FOIA Policies and Guidelines for additional information on your rights.*)

Signature of FOIA Coordinator: Ben Swayze Date: 4-25-22

Ben Swayze

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 9:37 AM
To: Ben Swayze
Cc: Rachel Kane
Subject: FOIA Request
Attachments: Phase I SOW Aerial Maps - Reduced Size file.pdf

Good morning,

BLDI is currently conducting a Phase I Environmental Site Assessment for two portions of the property identified as 5500 44th Street SE, Cascade Charter Township, Kent County, MI 49512; PID: 41-19-20-300-020. Aerial snippets of these proposed parcels are attached.

We would like to request the following information from the appropriate departments:
Assessing Records (any other pertinent historical information)
Fire Department Records (fire damage and/or hazardous material related situations)
Water and Sewer Connection/Installation Dates

AND Only if Available:
Building Department Records (building dates/utility connections/floor drain discharge points)

Please feel free to contact me with any questions or if we need to contact someone else for this information.

Thank you for your time and assistance!

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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Cascade Township Park
96
96
96
Cassard Ln
Thornapple River Dr SE
Avflight Grand Rapids
West Michigan Brick & Stone
Proposed Tower Site B58
Proposed Tower Site A1
Proposed Tower Site A28
UPS Supply Chain Solutions
FedEx Ship Center
Google Earth
© 2022 Google
N
1000 ft

Ashley Plocharczyk

From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 4:36 PM
To: Ashley Plocharczyk
Cc: Rachel Kane
Subject: RE: FOIA Request
Attachments: FOIA Request - BLDI (4.22) (Response).pdf

Thank you for the clarification Ashley. Attached is the response to your FOIA request. It is technically a denial as we do not have any relevant information. Being a vacant parcel, there are no water/sewer or building department records. There have been no Cascade Township Fire Department responses to this site (the airport has it's own fire department) and assessing records are only for the airport as a whole. If you have any questions, or need additional information, please contact me accordingly.

Take Care,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 3:16 PM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Yes, that is confirmed. We are only requesting information per the attached marked out parcels and not per the entire airport parcel.

Thank you,

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 3:06 PM
To: Ashley Plocharczyk <ashleyp@bldi.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Good Afternoon Ashley -

Thanks for reaching out. Can you please confirm that you are only looking for documentation specific to the sites called out on the map, and not the entire 41-19-20-300-020 parcel (which is essentially the entire airport)

Thanks,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 9:37 AM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: FOIA Request

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Water and Sewer Connection/Installation Dates

AND Only if Available:
Building Department Records (building dates/utility connections/floor drain discharge points)

Please feel free to contact me with any questions or if we need to contact someone else for this information.

Thank you for your time and assistance!

Ashley Plocharczyk

Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512

Inquiry Number: 6946651.5
April 22, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

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

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

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

Year	Target Street	Cross Street	Source
2017	☑	☑	EDR Digital Archive
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1987	☑	☑	Bresser's Cross-Index Directory Company
1982	☑	☑	Bresser's Cross-Index Directory Company
1977	☑	☑	Bresser's Cross-Index Directory Company
1972	☑	☑	Bresser's Cross-Index Directory Company
1967	☑	☑	Bresser's Cross-Index Directory Company
1962	☑	☑	Bresser's Cross-Index Directory Company
1959	☑	☑	Bresser's Cross-Index Directory Company
1953	☐	☐	Polk's City Directory
1948	☐	☐	Polk's City Directory
1942	☐	☐	Polk's City Directory
1938	☐	☐	Polk's City Directory
1933	☐	☐	Polk's City Directory

EXECUTIVE SUMMARY

Year	Target Street	Cross Street	Source

FINDINGS

TARGET PROPERTY STREET

5500 44th Street SE
Grand Rapids, MI 49512

Year	CD Image	Source	
44TH ST SE			
2017	pg A2	EDR Digital Archive	
2014	pg A7	EDR Digital Archive	
2010	pg A12	EDR Digital Archive	
2005	pg A18	EDR Digital Archive	
2000	pg A23	EDR Digital Archive	
1995	pg A26	EDR Digital Archive	
1992	pg A29	EDR Digital Archive	
1987	pg A32	Bresser's Cross-Index Directory Company	
1982	pg A35	Bresser's Cross-Index Directory Company	
1977	pg A37	Bresser's Cross-Index Directory Company	
1977	pg A38	Bresser's Cross-Index Directory Company	
1972	pg A40	Bresser's Cross-Index Directory Company	
1967	pg A42	Bresser's Cross-Index Directory Company	
1962	pg A44	Bresser's Cross-Index Directory Company	
1959	pg A46	Bresser's Cross-Index Directory Company	
1953	-	Polk's City Directory	Target and Adjoining not listed in Source
1948	-	Polk's City Directory	Target and Adjoining not listed in Source
1942	-	Polk's City Directory	Street not listed in Source
1938	-	Polk's City Directory	Street not listed in Source
1933	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
THORNAPPLE RIVER DR SE			
2017	pg. A6	EDR Digital Archive	
2014	pg. A11	EDR Digital Archive	
2010	pg. A17	EDR Digital Archive	
2005	pg. A22	EDR Digital Archive	
2000	pg. A25	EDR Digital Archive	
1995	pg. A28	EDR Digital Archive	
1992	pg. A31	EDR Digital Archive	
1987	pg. A33	Bresser's Cross-Index Directory Company	
1987	pg. A34	Bresser's Cross-Index Directory Company	
1982	pg. A36	Bresser's Cross-Index Directory Company	
1977	pg. A39	Bresser's Cross-Index Directory Company	
1972	pg. A41	Bresser's Cross-Index Directory Company	
1967	pg. A43	Bresser's Cross-Index Directory Company	
1962	pg. A45	Bresser's Cross-Index Directory Company	
1959	pg. A47	Bresser's Cross-Index Directory Company	
1959	pg. A48	Bresser's Cross-Index Directory Company	
1953	-	Polk's City Directory	Street not listed in Source
1948	-	Polk's City Directory	Street not listed in Source
1942	-	Polk's City Directory	Street not listed in Source
1938	-	Polk's City Directory	Street not listed in Source
1933	-	Polk's City Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
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44TH ST SE 2017

2425	REDBOX
2450	DEL MAR RECOVERY SOLUTIONS
	GALAXY BUSINESS CONSULTING
	GROF MICHAEL W DO
	KENNETH GRAY DDS
	LEADER LIGHTS
	LIBERTY MUTUAL
	MARIJKE H WIERSEMA DDS
	TIME OUT GR
2480	BROOK J BISONET ATTY
	CROSSROAD BIBLE INSTITUTE
	DONALD R VISSER ATTY
	PROGRESSIVE AFFILIATED LUMBERMAN PAL
	TYLER N HAYES ATTORNEY
	VISSER & ASSOCIATES PLLC
2591	HT ENGINEERING
	KOSIUR JAMES DO
	KOSIUR, JAMES
	PHYSIOTHERAPY
2627	ASCENSION LUTHERAN CHURCH
2674	KENTWOOD PUBLIC SCHOOLS
2687	ADVISORY INTERNATIONAL
	HUNT FOR A CURE
	REGAL FINANCIAL GROUP LLC
2718	BASKIN, TANISHA R
	BORTON, DONALD E
	CLARK, SUBRENA D
	CONLEY, CYNTHIA R
	FERGUSON, MARK J
	GLEASON, MARY K
	JONES, ELIZABETH
	SNIDER, OLLIE
	WOODS, JUDY
2736	BLUE, GREEN
2738	DHIMAL, DADI
2740	KHATIWADA, TILA
2742	DHUNGANA, KUMAR
2750	KULIC, OSMANA
2754	SHERPA, PHURBA
2756	SHIRLEY, TAYLOR
3140	MILLER, TWILA M
3230	BOST, KEN K
3268	MENEZES, JACEY
3325	KUELPER, KEVIN L
3631	B & G PRODUCTS
	CINTAS
	INTERFACE INNOVATIONS
	LINCARE
	RENEWAL BY ANDERSEN
	REPCOLITE PAINTS INC

3631	SKYE CONTRACTING
3650	ID ENGINEERING & AUTOMATED SYSTEMS
	SWISS CLEAN INC
3680	COMMUNITY FIRST HOME CARE LLC
	CROSSWAY TRANSPORT
	DEAF & HARD OF HEARING SERVICES
	MICHIGAN WEST APPRAISAL INC
	PLAS PRO INC
	PRIMERICA
	ROLLSTOCK INC
	TOP FLITE FINANCIAL INC
	V & M MARKETING INC
	WILSON & ASSOCIATES
3695	BTU PRODUCTS DBA METPCO LLC
	METPCO LLC
3777	CENTER FOR INQUIRYMICHIGAN
3820	FORBERG SCIENTFIC INC
3826	HEALTH MOTION PHYSICAL THERAPY SERVI
3828	AMERIFIRST FINANCIAL
	ATILA TRUCKING LLC
3850	CATCH A MEMORY BALLS
	GROOTER S TEMPLATE MANUFACTURING
	T & T ENGRAVING
3852	PRINTING PRODUCTIONS INK
3854	FB WRIGHT
3858	THESE LAST DAYS
	THESE LAST DAYS MINISTRIES
3862	AUTOCHLOR SYSTEM
3950	I D ENGINEERING & AUTOMATED SYSTEM
3952	UNIQUE TRUCK EQUIPMENT
3954	MEDICAL ID SYSTEMS
3956	AUTOEXEC INC
	INRAD
3965	ALTENFORF AMERICA
	STILES MACHINERY
3990	AUTOEXEC INC
	GENIUS PHONE REPAIR
4160	FUN SERVICES
4180	FOX TRANSPORTATION
	GZA GOENVIRONMENTAL INC
	MAKSOR MORTGAGE GROUP
	NUWAVE TECHNOLOGY PARTNERS
	PROJECT PHILIP
	REALVESCO PROPERTIES
	STATEWIDE DISASTER RESTORATION WEST
4215	RPH SDA CHURCH
4245	BLUEWATER TECHNOLOGIES
	CITY TRANSFER
	NAVIS PACK & SHIP
	SOLID WORKS

4245	TON TEX CORPORATION
	VERSAPAK
4300	FRANKLIN KENTWOOD
	X RITE INC
4345	DECKER CONSTRUCTION
	DECKER, C
	HAARTMAN, KRIS L
	MIDPOINT RESTORATION OF WEST MICHIGA
	PROSOURCE WHOLESALE FLOORCOVERINGS
	VAN BELKUM COMPANIES LLC
4425	FASTENAL
4426	P & J DELIVERY
4435	STEEL SYSTEMS INC
	TRANTEK AUTOMATION CORP
4445	BEARING DISTRIBUTORS
	S & S CARPETS
4455	COMPLETESOURCE
4460	8 NORTH STAFFING LLC
	COMPULIT INC
	CONCENTREK INC
	COUNTRY FRESH
	EMERGENCY SERVICES INSURANCE
	GRW TECHNOLOGIES INC
	HARLEQUIN USA
	MORETTI & MURPHY REPORTING
	NOVITEX ENTERPRISE SOLUTIONS
	PITNEY BOWES
	ROBERT GROOTERS DEVELOPMENT CO
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY
	THE NOAKES GROUP
	TOOLING TECHNOLOGIES
	VAN GO DELIVERY LLC
4470	RANIR
4480	FAMILY CHRISTIAN LLC
4495	INSTROTEK
4575	PHARMERICA
	STONE PRO LLC
4602	HOFFMAN CONSULTANTS
4604	GROUP MARKETING SERVICES
4607	REMEX CORPORATION
4612	SIGN WORKS
4616	CUSTOM CRAFT
	SPORTABOUT
4620	PROGRESSIVE BUILDING SERVICES INC
	SIGN WORKS
4632	SWANSON INMATE COMMISSARY SERVICES I
4635	ATTORNEYS TITLE AGENCY
	N T H CONSULTANTS LTD
	TREE INC GRAND RPDS OFC

Target Street	Cross Street	Source
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44TH ST SE 2017 (Cont'd)

4650	SUNRISE FOODS
4665	LANGUAGES INTERNATIONAL INC
	ONSITE
	ORTHOPAEDIC ASSOCIATES OF MICHIGAN O
	STEVENS MOVING & STORAGE
	STEVENS WORLDWIDE VAN LINES
	THE CLOSING OFFICE
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	MARYANNS CHOCOLATES
	QUEST
	TREE INC GRAND RPDS OFC
4720	I M & A
	NEWSPORTALS
	SCOTT J & ASSOCIATES
	STONE RIVER INTERACTIVE
4740	DATUM INDUSTRIES LLC
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5500	AIRPORT RESTAURANTS
	ALAMO RENT A CAR
	BISSELL
	ENTERPRISE RENTACAR
	GERALD R FORD INTERNATIONAL AIRPORT
	GRAND RAPIDS AIR CENTER
	HERTZ CAR RENTAL
	MAYDAY AVIONICS INC
	MEGADATA CORP
	NATIONAL CAR RENTAL
	NORTHERN AIR INC
	NORTHERN JET
	SERVISAIR

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2017

3290	FRENCH, ANDREW A
3312	GOULDING, TOM A
3334	HALE, MOLLY F
3390	QUINT, DANIELLE D
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3521	FONNESBECK, EMILY J
3530	BATES, JILL P
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	MITIDIERI, FRANK V
3637	HODGES, JAMES B
3639	WENK, JEFFREY R
3640	DISCOVERY DENTAL LAB
3706	MIDDLESTADT, AMY M
3726	PENNING, ROBERT D
4196	WEST MICHIGAN BRICK & STONE

Target Street	Cross Street	Source
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44TH ST SE 2014

2425	WALGREENS
2450	BRETON OFFICE CENTER LLC
	DOERING ALAN DR
	DOERING, ALAN C
	KENNETH GRAY DDS
	LIBERTY MUTUAL
	MICHAEL W GROF
	TIME OUT GR
	WIERSEMA MARIJKE H DDS
2480	BISONET BROOK J ATTY
	CROSSROAD BIBLE INSTITUTE
	CROSSROADS BIBLE INSTITUE
	GUINAN JOHN M
	HAYES TYLER N ATTY
	INFINITECH INC
	VISSER & ASSOCIATES PLLC
	VISSER DONALD R ATTY
2589	BRETON MANOR OF HOLLAND HOME
	REHAB DIMENSIONS OF HOLLAND HOME
2591	KOSIUR JAMES DO
	KOSIUR, JAMES
	PHYSIOTHERAPY
2627	ASCENSION LUTHERAN CHURCH
2674	KENTWOOD PUBLIC SCHOOLS
2687	ADVISORY INTERNATIONAL
	HUNT FOR A CURE
	REGAL FINANCIAL GROUP LLC
2710	CRANDALL, LYNNE A
2718	BORTON, DONALD E
	CLARK, SUBRENA D
	CRADDOCK, RACHAEL L
	SNIDER, OLLIE
	WOODS, JUDY
2720	HOANG, LIEM V
2736	BLUE, GREEN
2738	OCCUPANT UNKNOWN,
2740	LIKLEY, SMITH
2742	WRIGHT, OLIVETTE M
2749	OCCUPANT UNKNOWN,
2750	KULIC, OSMANA
2752	KULIC, HUSREF
2754	HUSEF, KULIC
2756	DHIMAL, DADI
2780	IKON OFFICE SOLUTIONS
3070	OCCUPANT UNKNOWN,
3140	CIOFANI, STEPHEN
	HOLSTON, DEVIN M
	MURRELL, BRIAN C
3230	MASSONG, MARGARET J
3268	OCCUPANT UNKNOWN,

44TH ST SE 2014 (Cont'd)

3325	KUELPER, KEVIN L
3535	ACCESS 24 44TH ST
3631	B & G PRODUCTS
	CBI INC
	CINTAS
	CINTAS FIRE PROTECTION & FIRE SYSTEM
	CINTAS FIRST AID SUPPLIES & SAFETY
	CINTAS PAPER SHREDDING & DOCUMENT SH
	LINCARE INFUSION SERVICES
	NUTRA FOOD INGREDIENTS
	REPCOLITE PAINTS INC
3650	ID ENGINEERING & AUTOMATED SYSTEMS
	PHOENIX FLOOR CARE SYSTEMS
	SWISS CLEAN INC
3680	COMMUNITY FIRST HOME CARE LLC
	MICHIGAN WEST APPRAISAL INC
	PLAS PRO INC
	PRIMERICA
	TOP FLITE FINANCIAL MORTGAGE
	WILSON & ASSOCIATES
3695	BTU PRODUCTS DBA METPCO LLC
	PRODUCTS BTU
	SYNERGIS TECHNOLOGY GROUP
3744	BANCROFT, JAN M
3760	FREYLING, REIMER A
3777	CENTER FOR INQUIRY MICHIGAN
	W PRR 1680 PUBLIC REALITY RADIO
3823	OCCUPANT UNKNOWN,
3826	HEALTH MOTION PHYSICAL THERAPY SERVI
3828	ATILA TRUCKING LLC
3839	EITEL, WILLIAM E
3850	CATCH A MEMORY BALLS
	GROOTERS TEMPLATE MANUFACTURING
	T & T ENGRAVING
3852	PRINTING PRODUCTIONS INK
3854	FB WRIGHT
3858	THESE LAST DAYS
	THESE LAST DAYS MINISTRIES
3862	AUTOCHLOR SYSTEM
3900	BRENNTAG
3952	UNIQUE TRUCK EQUIPMENT
3956	AUTOEXEC INC
	INRAD
3965	ALTENFORF AMERICA
	STILES MACHINERY
3990	AUTOEXEC INC
4130	BRAUN MACHINERY INC
4160	A 1 TENT RENTAL SERVICES
	ELECTRA LTD
	FUN SERVICES

Target Street	Cross Street	Source
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44TH ST SE 2014 (Cont'd)

4180	FOX TRANSPORTATION
	NUWAVE TECHNOLOGY PARTNERS
	PROJECT PHILIP
	REALVESCO PROPERTIES
	STATEWIDE DISASTER RESTORATION WEST
4215	RPH SDA CHURCH
4245	BLUEWATER TECHNOLOGIES
	CITY TRANSFER
	NEW DIMENSION BUILDING
	SOLID WORKS
	TON TEX CORPORATION
4300	FRANKLIN KENTWOOD
	X RITE
	X RITE INC
4345	BELKUM VAN
	DECKER CONSTRUCTION
	DECKER, C
	DEVELOPMENT REALTY
	PROSOURCE WHOLESALE FLOORCOVERINGS
	VAN BELKUM COMPANIES LLC
	VAN BELKUM TRANSCRIPTION SERVICE
4435	STEEL SYSTEMS INC
	TRANTEK AUTOMATION CORP
4440	KERRY INC
4445	BEARING DISTRIBUTORS
	S & S CARPETS
4460	CONCENTREK INC
	HARLEQUIN USA
	HELLOLIFE LLC
	LANGUAGES INTERNATIONAL INC
	MORETTI & MURPHY REPORTING
	NOAKES GROUP THE
	PITNEY BOWES
	ROBERT GROOTERS DEVELOPMENT CO
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY
	TOOLING TECHNOLOGIES
	UTI TRANSPORTATION MANAGEMENT INC
4470	RANIR
4475	ADVANCED IMAGING SOLUTIONS
	INTEGRATED PACKAGING MACHINERY LLC
4575	PHARMERICA
	STONE PRO LLC
4602	HOFFMAN CONSULTANTS
4604	GROUP MARKETING SERVICES
	GROUP MARKETING SERVICES INC
4607	REMEX CORPORATION
4616	CUSTOM CRAFT
	CUSTOM DESIGNS
	SPORT ABOUT

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44TH ST SE 2014 (Cont'd)

4618	IMS GROUP USA
4620	PROGRESSIVE BUILDING SERVICES INC
4626	P & J DELIVERY SERVICE
4632	SWANSON INMATE COMMISSARY SERVICES I
	SWANSON INMATE COMMISSION
4635	AIM FINANCIAL
	MERCY HEALTH PLANS
	N T H CONSULTANTS LTD
4650	SUNRISE FOODS
4665	AEROTEK
	BELCAN ENGINEERING
	ONSITE
	ORTHOPAEDIC ASSOCIATES OF MICHIGAN O
	PENNSYLVANIA LIFE INSURANCE COMPANY
	STEVENS WORLDWIDE VAN LINES
	THE CLOSING OFFICE
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	HONEYWELL HOME & BUILDING CONTROL
	MARYANNS CHOCOLATES
	OAK TRUST CREDIT UNION
	TREE INC GRAND RPDS OFC
4710	COMPATICO
4720	IM & A
	INFORMATION MANAGERS & ASSOCIATES
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5363	HOME HEALTH SERVICES INC
	WEST MICHIGAN AVIATION ACADEMY
5500	AIRPORT RESTAURANTS
	ALAMO RENT A CAR
	BISSELL
	COUNTY OF KENT
	GERALD R FORD INTERNATIONAL AIRPORT
	GRAND RAPIDS AIR CENTER
	MAYDAY AVIONICS INC
	MEGADATA CORP
	NORTHERN AIR
	NORTHERN JET
	SERVISAIR
	UNITED STATES GOVERNMENT

Target Street	Cross Street	Source
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THORNAPPLE RIVER DR SE 2014

3290	FRENCH, ANDREW A
3312	GOULDING, TOM A
3334	HALE, MOLLY F
3390	OCCUPANT UNKNOWN,
3408	OCCUPANT UNKNOWN,
3426	OCCUPANT UNKNOWN,
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3521	OCCUPANT UNKNOWN,
3530	BATES, JILL P
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	OCCUPANT UNKNOWN,
3637	HODGES, JAMES B
3640	DISCOVERY DENTAL LAB
3706	MIDDLESTADT, AMY M
3726	PENNING, ROBERT D
4173	CASTLEMAN, TERESA
4190	THORNAPPLE EXCAVATING INC
4196	WEST MICHIGAN BRICK & STONE STONE PR

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44TH ST SE 2010

2425	SATELLITE RECEIVERS LTD
	WALGREENS
2450	DOERING ALAN C DDS
	GROF MICHAEL W DO
	LIBERTY MUTUAL
	MATCH MAKER INTL
	NEURAL PLANET
	SINGSTOCK SCOTT DDS
2480	KENTWOOD PHARMACY
	PROGRESSIVE INSURANCE
	VISSER & ASSOC
2591	GRAND RAPIDS ORTHOPEDICS
	KOSIUR JAMES DO
	PHYSIOTHERAPY ASSOCIATES INC
2627	ASCENSION LUTHERAN CHURCH
	PENTECOSTALS OF KENTWOOD
2674	CRESTWOOD MIDDLE SCHOOL
2687	CFS GROUP LLC
	HUNT FOR A CURE
	KILLEEN GROUP
	REGAL FINANCIAL GROUP
2710	CLAPP, DILLON
	CRANDALL, LYNN A
2718	CLARK, SUBRENA D
	DAVIS, DEBRA M
	GARCIA, JESUS R
	HIGGINS, KAMERON L
	HOBSON, FRANCES
	MITCHUM, MAURICE
	TETT, KURT
2720	HOANG, LIEM V
2730	FEGEL, DALE
2740	LIKLEY, SMITH
2742	DEWEY, DAVID C
2749	CISCO, JOHN W
2750	KULIC, OSMANA
2754	HUSEF, KULIC
2756	HERNANDEZ, FRANCISCO J
3149	ASQUITH, GREGORY T
3230	BOST, KEN K
3325	GEREN, AMANDA
3535	ACCESS 24 SELF STORAGE
3599	44TH STREET SELF STORAGE
3631	A J RV DISTRIBUTORS
	B & G PRODUCTS
	CBI GRAND RAPIDS INC
	CBI INC
	NUTRA FOOD INGREDIENTS
	PREMIER GARAGE OF GRAND RAPIDS
	REPCOLITE PAINTS INC

3650	SWISS CLEAN INC
3680	DERRIN, LEIGH
	FINANCIAL ARCHTECTS
	G W DEHAAN REAL ESTATE
	GEORGE ZENDER & ASSOC
	JOSEPH KLOOSTERMAN AGENCY
	KEN CHESTERMAN & ASSOC
	MEDASSIST
	MICHIGAN WEST APPRAISAL INC
	MPTC
	TOTAL DESIGN CONCEPTS LLC
	WEST EDGE MEDIA CORP
	WILSON & ASSOC
3695	TRIMLINE TOOL INC
3760	FREYLING, REIMER A
3777	CENTER FOR INQUIRYMICHIGAN
	WPRR
3820	FORBERG SCIENTIFIC INC
3822	PCT
3823	PELL, JEROLD
3824	T ROSEMA & ASSOC
3826	HEALTH MOTION PERFORMANCE
	HEALTH MOTION PHYSICAL THERAPY
3828	AMERIFIRST FINANCIAL
	GOLDEN MORTGAGE CORP
3839	EITEL, WILLIAM E
3850	AUTOCHLOR SYSTEM
	CATCHAMEMORY BALLS
	GROOTERS TEMPLATE MFG
	T & T ENGRAVING
3852	AMERICAN DISTRICT TELEGRAPH CO
	PRINTING PRODUCTIONS INK
3854	F B WRIGHT CO
3862	PRODUCT INNOVATIONS & DEVMNT
3900	BRENNTAG GREAT LAKES
	CUSTOM MATTE
3901	STILES MACHINERY INC
3950	I D ENGINEERING & AUTOMATED
3952	MOBILE AIR INC
3954	MEDICAL ID SYSTEMS
3956	BELFOR
3965	STILES MACHINERY INC
4130	BRAUN MACHINERY CO
4160	A1 TENT RENTAL SVC
	ELECTRA LIMITED
	FUN SERVICES
4180	CAPITAL UNION
	MAKSOR MORTGAGE GROUP
	MEDICAL LANGUAGE SPECIALISTS
	MICRONET PUBLISHING

4180	SCHELDE NORTH AMERICA
	SENIOR FINANCIAL ADVISORS LLC
	STATEWIDE DISASTER RESTORATION
	TOWN & COUNTRY TITLE AGENCY
4188	ADVANTAGE INVESTORS MORTGAGE
4242	MAC DONALDS INDL PRODUCTS
4245	BLUE WATER TECHNOLOGIES
	I Q CARTRIDGE
	SOLID WORKS
	VERSAPAK
4300	GRETAG MACBETH LLC
	ROBERT BOSCH CORPDIESEL TECH
	XRITE INC
4345	DECKER CONSTRUCTION
	DEVELECON PROPERTIES LLC
	DEVELOPMENT REALTY
	PINIKA
	QUALITY TRANSCRIPTION
	VAN BELKUM LLC
4425	FASTENAL CO
4435	STEEL SYSTEMS INC
4440	KERRY INC
4445	BEARING DISTRIBUTORS INC
4455	COMPLETE SOURCE
4460	ACCESS PROGRAMMING GROUP INC
	BRAMBLE & ASSOC
	BROADMOOR FINANCIAL SVC INC
	CDV ASSOCIATES PLLC
	CONCENTREK INC
	FILD SALES & CONSULTING LLC
	GREAT LAKES BOTTLED WATER CO
	GRW
	HARLEQUIN USA
	HEALTH CARE SOLUTIONS AGENCY
	INDUSTRIAL SYSTEMS
	LANGUAGES INTERNATIONAL
	NOAKES GROUP
	PITNEY BOWES LEGAL SOLUTIONS
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY MGMT
	TAKE CHARGE PRODUCTIONS
	TOOLING TECHNOLOGIES
	VAN GO DELIVERY LLC
4470	AMERICAN STORAGE & LOGISTICS
	J KALTZ & CO
4475	ADVANCED IMAGING SOLUTIONS
4490	ELAN NUTRITION INC
4495	PROBITY ENGINEERING SVC LLC
4525	KENDALL ELECTRIC INC
4575	AVI SYSTEMS

44TH ST SE 2010 (Cont'd)

4575	PHARMERICA
	WYKE DIE & ENGINEERING INC
4602	HOFFMAN CONSULTANTS LLC
4604	GROUP MARKETING SVC
4607	C D & H SUPPORT SVC
	SUPPLY CHAIN SOLUTIONS
4610	COMMERCIAL MAGIZINE
4616	EMODEL
	OPTIONS TALENT
	SPORTABOUT
4618	IMEC USALLC
	NEWMA CO LLC
	WEITEK USA
4620	SIGNWORKS OF MICHIGAN INC
4632	SWANSON SERVICES CORP
4635	HORIZON BILLING SPECIALISTS
	MERCY HEALTH PLANS
	MICHIGAN FOR SALE BY OWNER
	NTH CONSULTANTS LTD
	OCE CORPORATE PRINTING DIV
	OCE NORTH AMERICA
4650	SUNRISE FOODS
4656	LIGHT TECH
4665	AEROTEK
	GRAND IMAGING
	PENNSYLVANIA LIFE INSURANCE CO
	SPEEDWAY
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	MANUFACTURING ACTION GROUP INC
	MARYANNS CHOCOLATES
	WESCO DISTRIBUTION INC
4710	COMPATICO
4740	DATUM INDUSTRIES LLC
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5289	AVIS RENT A CAR
5351	PARAMOUNT DISPATCH
5446	STEEL CASE
5500	AMERICAN AIRLINES INC
	AVIATION GROUND SVC
	AVIS RENT A CAR
	BUDGET RENT A CAR
	ENTERPRISE RENTACAR
	GERALD R FORD INTL AIRPORTGRR
	GRESHAM SMITH & PARTNERS
	HERTZ RENT A CAR
	KENT COUNTY AERONAUTICS DEPT
	KENT INTERMEDIATE SCHOOL DIST

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44TH ST SE 2010 (Cont'd)

5500 MAYDAY AVIONICS INC
MUNCIE AVIATION CO
NORTHERN JET MANAGEMENT
PARAMOUNT AVIATION
R & R TECHNOLOGIES INC
SERVISAIR
SMARTE CARTE
STARBUCKS
US AIRWAY FACILITIES OFFICE
US FAA
US FLIGHT STANDARDS DISTRICT

Target Street	Cross Street	Source
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THORNAPPLE RIVER DR SE 2010

3312	GOULDING, TOM A
3334	RASBERRY, RICCARDO
3390	QUINT, WAYNE R
3464	GRAHAM, JOHN P
3530	GUTEK, ROB S
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	MITIDIERI, MONICA M
	MONICAS BEST GOURMET COOKIES
3637	HODGES, JAMES B
3639	SCHRAGG, JACQUELI
3640	DISCOVERY DENTAL LABORATORIES
3726	PENNING, ROBERT D
4190	THORNAPPLE EXCAVATING INC

Target Street	Cross Street	Source
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44TH ST SE 2005

2450	AC DOERING DR
	HEALTHY SMILE
	LIBERTY MUTUAL INSURANCE GROUP
	MATCHMAKER INTERNATIONAL
	ONA, SUZZETTE
	SCOTT SINGSTOCK DDS PC
	SINGSTOCK DDS PC
	SINGSTOCK, SCOTT
	WILLIAMS GROUP
2480	PROGRESSIVE AFFILIATED LUMBERMAN
2510	CHRISTENSEN, HENRIETTA
2535	BUG OFF INSPECTIONS
	ECKBERG MOTOR REBUILDING INC
2589	BRETON MANOR
	HOLLAND HOME BRETON MANOR
	RIVER CITY MECHANICAL
2591	GRAND RAPIDS ORTHOPEDIC PETER S VASI
	KOSIUR, JAMES
	PETER S VASUI DO
	SALES, CHERYL D
2674	KENTWOOD PUBLIC SCHOOLS
2687	CARDINAL RULE LLC
	KILLEEN GROUP THE
	SHOWOFF PROMOTIONS
2710	CRANDALL, LYNNE A
2718	BORTON, DONALD J
	CLARK, SUBRENA
	DIAZ, LUIS A
	HODGES, C D
	HORSLEY, LATARSHA
	KAMINSKI, LEWIS
	MONTALVO, LILLIAN
	POTTS, LISA
	REASER, MELVIN
	SCHWALLIER, DENNIS
	SMITH, ANTHONY
2720	HOANG, LIEM
2736	OCCUPANT UNKNOWN,
2738	FERGUSON, JOCKLYN
2740	RUNNER, PHILLIP
2742	LANDERO, JESUS
2749	CISCO, JOHN W
2750	CHAPIN, DAVID S
2752	HERNANDEZ, FRANCISCO
2754	OCCUPANT UNKNOWN,
2756	OCCUPANT UNKNOWN,
3070	OCCUPANT UNKNOWN,
3075	OCCUPANT UNKNOWN,
3140	BRAUN MACHINERY CO INC
	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
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44TH ST SE 2005 (Cont'd)

3149	OCCUPANT UNKNOWN,
3230	MASSONG, MARGARET J
3268	PROPERTY ACQUISITIONS INC
3322	OCCUPANT UNKNOWN,
3325	KUELPER, KEVIN L
3350	OCCUPANT UNKNOWN,
3499	44TH STREET SELF STORAGE
3599	44TH ST SOUTH STORAGE LLC
3631	B & G PRODUCTS LLC
	INTERFACE MACHINE TOOL SALS
	INTERFACE TECHNOLOGIES INC
	REPCOLITE PAINTS
	TECH FINANCIAL SERVICES
3650	SWISS CLEAN INC
3680	ALPHA CHRISTIAN REGISTRY
	DEHAAN, STEPHEN W
	MFS FUNDING INC
	MICROCHIP TECHNOLOGIES
	MOBILIFE FINANCIAL SERVICES
	RER CAPITAL LLC
	RICH GOTCH
	THIRD COAST SOFTWARE
3690	ALPHA CHRISTIAN REGISTRY INC
3744	ELLIOTT, SALLY D
3760	FREYLING, REIMER A
3777	GOODRICH RADIO MARKETING INC
	WDSS AM
3820	FORBERG SCIENTIFIC INC
3823	PELL, JEROLD
3824	ROSEMA T & ASSOCIATES
3826	HEALTH MOTION PHYSICAL THERAPY
3839	EITEL, WILLIAM E
3850	AUTO CHLOR
3852	ADT SECURITY SERVICES INC
	AMERICAN DIST TELEGRAPH
3854	F B WRIGHT CO
3900	HOEKSTRA PRINTING CO INC
3950	ID ENGINEERING & AUTOMATED SYS
	ID ENGINEERING AUTOMATED SYSTEMS
3952	MICHIGAN PUBLIC PHONE CO
3954	MEDICAL I D SYSTEMS INC
3965	ALTENDORF AMERICA CO
	STILES MACHINERY INC
3990	IMA AMERICA CORP
4160	ELECTRALUME
	FARMERS INSURANCE GROUP
	RIDE SERVICE INC
4180	2660 LEONARD LLC
	ALUWAX DENTAL PRODUCTS CO
	CHRISTIAN PSYCHOLOGICAL SERVICES PC

44TH ST SE 2005 (Cont'd)

4180	CUSTOM FABRICATORS INC
	GEORGE WESTON BAKERY
	INDIGO FINANCIAL GROUP INC
	REALVESCO / NEW AMERICAN INTERNATION
	REMICO LLC
	SCHELDE NORTH AMERICA
	WOODS, DON R
4215	LSI CREDIT UNION
4242	MACDONALDS INDUSTRIAL PRODUCTS
4245	AVALON FINANCIAL CORP
	DP BROWN OF DETROIT
	MULTIAX AMERICA INC
	MULTIAX CNC INC
	VFP FIRE SYSTEMS
4300	BOSCH KENTWOOD
	DIESEL TECH CO LTD PARTNER
	DIESEL TECHNOLOGY CORP
	STEEL CASE INC
	STEEPLECHASE WOOD FURNITURE
4345	DECKER CONSTRUCTION INC
4405	ERIE CONSTRUCTION MID WEST INC
4425	SPECIALTY MACHINE SERVICE INC
4440	YMCA
4455	COMPLETE SOURCE INC
4460	COMPULIT INC
	COUNTY FRESH CORP
	NORTHERN FALLS LLC
4470	G R PRODUCTS LTD
	J KALTZ CO
4475	INTEGRATED PACKAGE MACHINERY
4480	DYNAFLEX CORP
	FAM CHRISTIAN STORES OUTLET
	ULTRAFOAM INC
4490	ELAN NUTRITION LLC
4495	PROBITY ENGINEERING LLC
4525	FITZPATRICK ELECTRIC
	GREAT LAKES AUTOMATION SUPPLY
4575	AVI SYSTEMS
	WYKE DIE & ENGINEERING INC
4602	GROUP ENGINEERING INC
	MCGEEHAN, MICHAEL
4607	REMEX SYSTEMS GROUP
4610	CLARK NETWORK ENTERPRISES
4612	MARQUISE FINANCIAL SERVICES INC
4632	SWANSON INMATE COMMISSARY SERVICE CO
	SWANSON SERVICES
4635	HORIZON BILLING SPECIALISTS
	IMAGISTICS INTERNATIONAL INC
	NEYER TISEO HINDO
	NTH CONSULTANTS LTD

44TH ST SE 2005 (Cont'd)

4665	AEROTEK INC
	ONSITE
	PENNSYLVANIA LIFE INSURANCE
	RIVER CITY REPRODUCTIONS
	TRADESMEN INTERNATIONAL
	UNITED FINANCIAL GROUP LLC
4695	AWANIM
	CU ANSWERS CONSULTING
	HONEYWELL
	MANUFACTURING ACTION GROUP INC
	MVN
	WESCO NET
	WEST MICHIGAN COMPUTER COOP INC
4710	CB REAL ESTATE LLC
	COMPATICO OFFICE FURNITURE PARTS
4740	DATUM INDUSTRIES INC
4782	PRODUCTION TOOL SUPPLY
4800	SUNNYSLOPE FLORAL
5345	RJ MCCRACKEN & SON
5351	KELLEY AIR SERVICES
5363	HHS
5410	ALTICOR INC
5500	COMAIR INC
	GERALD R FORD INTERNATIONAL AIRPORT
	HERTZ CORP
	HOST MARRIOTT L P
	KENT COUNTY AERONAUTICS BOARD
	MIDWEST EXPRESS AIRLINES
	NORTHERN AIR INC
	NORTHERN JET MANAGEMENT
	PARAMOUNT AVIATION
	TRAVEL CONSULTANTS
	WORLDWIDE FLIGHT SERVICES INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2005

3290	MANN, JILL Z
3312	GOULDING, TOM A
3334	RASBERRY BONDING CO
	RASBERRY, EDITH M
3390	QUINT, WAYNE R
3408	WITHAM, ROBERT B
3426	BOLTON, WILLIAM P
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3501	PROCARE LANDSCAPE MANAGEMENT INC
	WEED MAN
3521	KILMER, BRENT M
3545	RODGERS, CURTIS
3601	MCNITT, JAMES M
3608	WHITEHEAD, JULIE
3611	MITIDIERI, FRANK V
	MONICA S BEST GOURMET COOKIES
3639	BRECKENRIDGE, DANIEL D
3706	KENT, KEVIN D
4190	THORNAPPLE EXCAVATING INC
4196	TNT DREDGING INC

Target Street	Cross Street	Source
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44TH ST SE 2000

4300	DIESEL TECHNOLOGY COMPANY
	HEALTHCARE 2000
	STEELCASE WOOD FURNITURE ABSENTEE CALL IN
4345	DECKER CONSTRUCTION INCORPORATED
	HUDSON LOCK
	JOHNSON FLOORING & INTERIORS
	PROSOURCE FLOOR COVERINGS
4425	SPECIALTY WOODWORKING MACHINERY INCORPORATED
4435	NICHOLS
4440	ELSTON RICHARDS
4445	BLUE WATER VISUAL SERVICES
	INNOVATIVE CLEANING
	WEST MICHIGAN GLASS BLOCK INCORPORATED
4455	VEHEX INCORPORATED
4457	DOALL INDUSTRIAL SUPPLY CORPORATION
4460	BRIDGE INFORMATION SYSTEMS
	COMMON POINT MORTGAGE
	ITM ACQUISITION
4475	SERVICE EXPRESS
4525	FITZPATRICK ELECTRIC SUPPLY COMPANY
4575	LASERS UNLIMITED INCORPORATED
	MIDWEST VISUAL EQUIPMENT COMPANY INCORPORATED
4604	ISERV COMPANY THE
4607	GRAYBAR ELECTRIC COMPANY INCORPORATED
4612	DIAMOND EXTERIORS
4614	HARPER INDUSTRIAL CONSTRUCTION INCORPORATED
4616	GRAND TECHNOLOGIES INCORPORATED
4618	SWANSON INMATE COMMISSARY SERVICES INCORPORATED
	VIDEO MAGIC INCORPORATED
4620	PROGRESSIVE BUILDING SERVICES INCORPORATED
4626	SUNRISE FOODS
4630	NATIONAL INTERLOCK SERVICE MI LIMITED
4632	ASSOCIATED GLOBAL SYSTEMS
4635	ADVACOM INCORPORATED
	DRAKE PRODUCTS CORPORATION
	N T H CONSULTANTS LIMITED
	SNAP ON TOOLS CORPORATION
4636	UNIQUE TRUCK EQUIPMENT UNISTRUT DETROIT SERVICE COMPANY
4654	GUILFORD COMPONENT TECHNOLOGY
4665	AEROTEK ONSITE
	AMERITECH ENHANCED BUSINESS SERVICES
	AMIGO MOBILITY
	ANALYTICAL MASSSPEC LABORATORY INCORPORATED
	CLARK & GREGORY INCORPORATED
	CONCENTRA MEDICAL CENTERS GRAND RAPIDS AIRPORT
	CORAM HEALTHCARE
	MICHIGAN BELL COMMUNICATIONS
	ON SITE
	PENNSYLVANIA LIFE INSURANCE COMPANY
	XEROX CORPORATION

Target Street	Cross Street	Source
✔	-	EDR Digital Archive

44TH ST SE 2000 (Cont'd)

4695 GOURMET TO GO
HONEYWELL
NEXTEL COMMUNICATIONS
WEST MICHIGAN CMPTR COOPERATIVE INCORPORATED WESCO CREDIT UN
4710 COMPATICO
4720 WOLVERINE BUILDING INCORPORATED
4740 DATUM INDUSTRIES INCORPORATED
4782 PRODUCTION TOOL SUPPLY

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2000

3290	ZOODSMA, BERNARD
3312	DEWEERD, NORMAN D
3334	CRUTCHER, CHARLES
	RASBERRY, EDITH
3390	QUINT, WAYNE R
3426	BOLTON, WILLIAM
3444	STERKENBURG, L D
3501	RVP INCORPORATED
3521	BECKERING, THOMAS
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3611	MITIDIERI, FRANK
3637	GRONER, MICHAEL
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPARE ROOM
	RYDER TRUCK RENTAL ONE WAY INCORPORATED
	SAND BAY INCORPORATED
4190	THORNAPPLE EXCAVATING INCORPORATED
4196	T N T DREDGING INCORPORATED

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44TH ST SE 1995

4620	LIFETIME PRODUCTS INC
4632	G STEIL FOR CNGRSS
4635	ALVEY INC
	CUSTOM SERVC ELECT
4649	HONEYWELL PROTECTION SVC
4654	GUILFORD COMPONENT TECHNOLOGY
4665	ANALYTICAL MASSSPEC LAB INC
	BRIGGS, CHARLES W
	CAREMARK HOMECARE
	CLARK & GREGORY INC
	DECISION DATA SVC
	MICHIGAN BELL COMMUNICATIONS
	PENNSYLVANIA LIFE INSURANCE CO
	SEARS SIDING
	XEROX CORP
4695	HONEYWELL HOME & BUILDING
	HONEYWELL INC
	SAGE SYSTEMS INC
4710	GUILFORD OF MAINE INC
	GUILFORD TEXTILE RESOURCES
4720	PAULETTE DONNELLY
	WOLVERINE BUILDING INC
	WOLVERINE CONSTRUCTION MGMT
4800	SUNNYSLOPE FLORAL & GIFT
5215	SEARS ROEBUCK & CO
5245	NATIONAL CAR RENTAL
5255	HERTZ RENT A CAR
5345	MCCRACKEN, R J
	R J MC CRACKEN & SON INC
	R J MCCRACKEN
5351	A N DERINGER INC
5363	HHS INC
5387	US TRANSPORTATION DEPT
5500	ABSOLUTE MAINTENANCE INC
	AMERICAN AIRLINES INC
	AMR COMBS AIRCRAFT
	AMR COMBS FLIGHT TRAINING
	AMR SERVICES
	AVCON LIMITED
	AVIS RENT A CAR
	BUDGET RENT A CAR
	CONTINENTAL EXPRESS
	DYNAIR CFE SVC INC
	EMERY WORLDWIDE ACF CO
	EMERY WRLDWD A CF
	HERTZ RENT A CAR
	HOST INTL GFT SHP
	HOST MARRIOTT
	KENT COUNTY AERONAUTICS DEPT
	KENT COUNTY INTRNTNL AIRPORT

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44TH ST SE 1995 (Cont'd)

5500 MARIS EQUIPMENT CO
MAYDAY AVIONICS INC
MID PACIFIC AIR CORP
NATIONAL CAR RENTAL
NBD BANK
NORTHWEST AIRLINES
NW AIRLINES CARGO
U S AIR INC
US AIR
US AIR TRAFFIC CONTROL
US AIRWAY FACILITIES OFC
US FAA TOWER
US FLIGHT STANDARDS OFC
US NATL WEATHER
WELCH AVIATION INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 1995

3290	MANN, JILL
	ZOODSMA, BERNARD
3312	DEWEERD, NORMAN D
3334	RASBERRY, EDITH
3390	QUINT, WAYNE R
3408	WITHAM, ROBERT B
3426	BOLDT, K
	BOLDTMOORE, K
	MOORE, DENNIS
3440	STERKENBURG, LARRY D
3444	STERKENBURG, LAWR D
3464	GRAHAM, J E
3545	RODGERS, ROBERT E
3601	MACGREGOR, JAMES D
3637	KREBILL, JOHN
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPARE ROOM
	RYDER TRUCK RENTAL INC
4190	THORNAPPLE EXCAVATING INC
4196	GREAT LAKES FRAMING INC

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✔	-	EDR Digital Archive

44TH ST SE 1992

4616	S L WOODWORKING
	SLI PARTS&SERV
4636	UNISTRUT DETROIT
4665	ADVNCD INFOR SYS
	ANALYTICAL MASSSPE
	CAREMARK HM HLTH
	DECISION DATA COMP
	MICH BELL CMMNCTNS
	PENNSYLVN LIFE INS
	XEROX CORPORATION
4695	ARTECH INTERIORS
	HONEYWELL
4710	STEIL INC
4720	BUTLER MFG BLDR
	WOLVERINE BLDG
	WOLVERINE CRANE SV
4740	ARPRT SLF STRG CTR
5245	NATL CAR RNTL SYTM
5255	HERTZ RENT-A-CAR
5373	C B CLASSICS
5377	GRT NRTHN AIRCRAFT
5387	US GRAND RAPIDS SF
5500	ABSOLUTE MNTNC INC
	AIRBORNE EXPRESS
	AMR COMBS
	AMR COMBS AIR AMBL
	AMR COMBS AIRCRAFT
	AMR COMBS EXE CHRT
	AMR COMBS FLT TRNG
	AMR SERVICES CORP
	ARPRT HTL DYS INN
	ARPRT MOTEL
	ARPRT RESTAURANTS
	AUTODIE CORP
	AVCON LTD
	AVIS RENT A CAR
	BUDGET RENT A CAR
	CO AERONAUTICS DPT
	DAYS INN ARPT HTL
	DYNAIR C F E SVCS
	HERTZ RENT-A-CAR
	HOST INTL GFT SHP
	HOST TRMNL RSTRNT
	MAYDAY AVIONICS
	MCCRACKEN, R J
	MID PACIFIC AIR CO
	NATL CAR RENTAL
	NBD BANK NA
	NORTHWEST AIRLINES
	R J MCCRACKEN

Target Street	Cross Street	Source
✔	-	EDR Digital Archive

44TH ST SE 1992 (Cont'd)

5500 R J MCCRACKEN&SON
RAPID AIR
SPARTA AVIATION SV
TRAVEL CONSULTANTS
US AIR
US CUSTOMS SV
US FAA TOWER
US FLIGHT STANDARD
US PO AIRPORT ML
US TRANS AIR FACLT
US TRANS AIR TRFFC
WEST MI AVIATION

Target Street	Cross Street	Source
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THORNAPPLE RIVER DR SE 1992

3312	DEWEERD, NORMAN D
3334	LOCKWOOD, DAVE W
3381	SLAGBOOM, JOHN E
3390	VANLOO, C A
3408	WITHAM, ROBERT B
3444	TUSING, CHARLES
3545	RODGERS, ROBERT E
3637	KREBILL, ANNE
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPR RM
	CASCD SPARE RM A
3910	BURTON SERV GARAGE
4190	THORNAPPLE EXCAVTG
4849	KAECHELE, CHARLES
4909	FORBES, JOHN D
33901	QUINT, WAYNE R

Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

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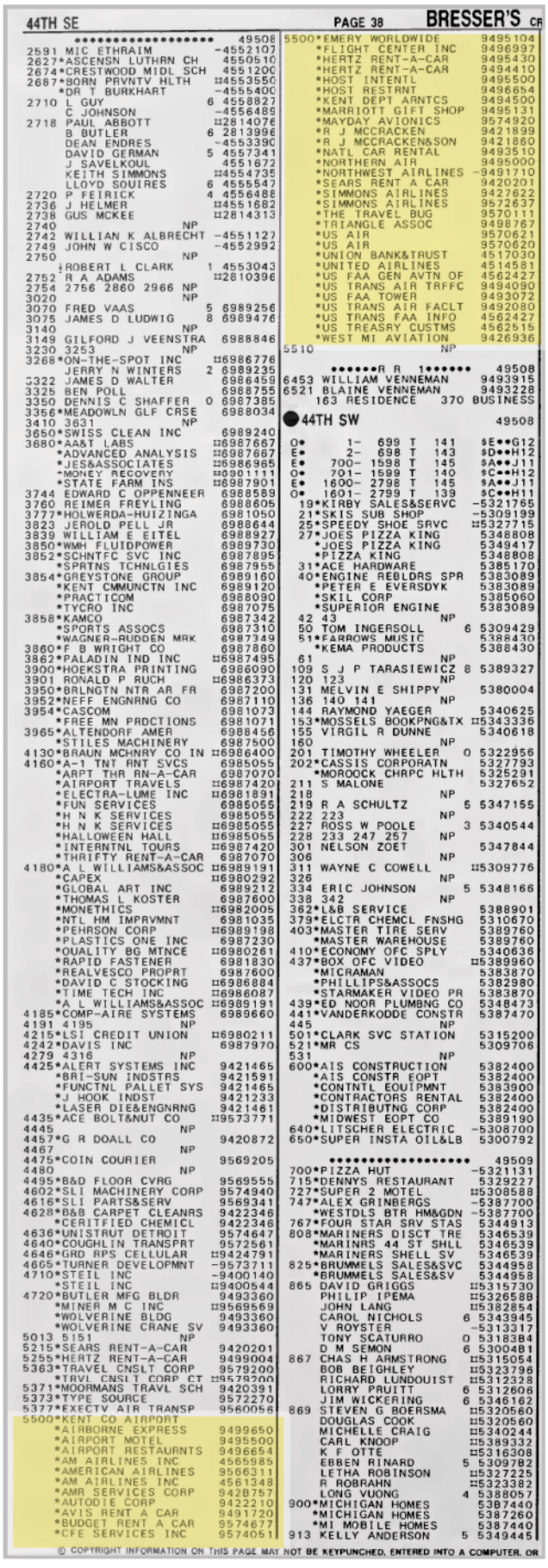

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•••••••••••••••••• 49508
2591 MIC ETHRAIM -4552107
2627*ASCENSN LUTHRN CH 4550510
2674*CRESTWOOD MIDL SCH 4551200
2687*BORN PRVNTV HLTH H4553550
*DR T BURKHART -4555400
2710 L GUY 6 4558827
C JOHNSON -4556489
2718 PAUL ABBOTT H2814076
B BUTLER 6 2813996
DEAN ENDRES -4553390
DAVID GERMAN 5 4557341
J SAVELKOUL 4551672
KEITH SIMMONS H4554735
LLOYD SQUIRES 6 4555547
2720 P FEITRICK 4 4556488
2736 J HELMER H4551682
2738 GUS MCKEE H2814313
2740 NP
2742 WILLIAN K ALBRECHT -4551127
2749 JOHN W CISCO -4552992
2750 NP
ROBERT L CLARK 1 4553043
2752 R A ADAMS H2810396
2754 2756 2860 2966 NP
3020 NP
3070 FRED VAAS 5 6989256
3075 JAMES D LUDWIG 8 6989476
3140 NP
3149 GILFORD J VEENSTRA 6988846
3230 3253 NP
3268*ON-THE-SPOT INC H6986776
JERRY N WINTERS 2 6989235
3322 JAMES D WALTER 6986459
3325 BEN POLL 6988755
3350 DENNIS C SHAFFER 0 6987385
3356*MEADOWLN GLF CRSE 6988034
3410 3631 NP
3650*SWISS CLEAN INC 6989240
3680*AA&T LABS H6987667
*ADVANCED ANALYSIS H6987667
*JES&ASSOCIATES H6986965
*MONEY RECOVERY H6901111
*STATE FARM INS H6987901
3744 EDWARD C OPPENNEER 6988589
3760 REIMER FREYLING 6988605
3777*HOLWERDA-HUIZINGA 6981050
3823 JEROLD PELL JR 6988644
3839 WILLIAM E EITEL 6988927
3850*WMH FLUIDPOWER 6989730
3852*SCHNTFC SVC INC 6987895
*SPRTNS TCHNLGIES 6987955
3854*GREYSTONE GROUP 6989160
*KENT CMMUNCTN INC 6989120
*PRACTICOM 6988090
*TYCRO INC 6987075
3858*KAMCO 6987342
*SPORTS ASSOCS 6987310
*WAGNER-RUDDEN MRK 6987349
3860*F B WRIGHT CO 6987860
3862*PALADIN IND INC H6987495
3900*HOEKSTRA PRINTING 6986090
3901 RONALD P RUCH H6986373
3950*BRLNGTN NTR AR FR 6987200
3952*NEFF ENGNRNG CO 6987110
3954*CASCOM 6981073
*FREE MN PRDCTIONS 6981071
3965*ALTENDORF AMER 6988456
*STILES MACHINERY 6987500
4130*BRAUN MCHNRY CO IN H6986400
4160*A-1 TNT RNT SVCS 6985055
*ARPT THR RN-A-CAR 6987070
*AIRPORT TRAVELS H6987420
*ELECTRA-LUME INC H6981891
*FUN SERVICES 6985055
*H N K SERVICES 6985055
*H N K SERVICES H6985055
*HALLOWEEN HALL H6985055
*INTERNTNL TOURS H6987420
*THRIFTY RENT-A-CAR 6987070
4180*A L WILLIAMS&ASSOC H6989191
*CAPEX H6980292
*GLOBAL ART INC 6989212
*THOMAS L KOSTER 6987600
*MONETHICS H6982005
*NTL HM IMPRVMNT 6981035
*PEHRSON CORP H6989198
*PLASTICS ONE INC 6987230
*QUALITY BG MTNCE H6980261
*RAPID FASTENER 6981830
*REALVESCO PROPRT 6987600
*DAVID C STOCKING H6986884
*TIME TECH INC H6986087
*A L WILLIAMS&ASSOC H6989191
4185*COMP-AIRE SYSTEMS 6989660
4191 4195 NP
4215*LSI CREDIT UNION H6980211
4242*DAVIS INC 6987970
4279 4316 NP
4425*ALERT SYSTEMS INC 9421465
*BRI-SUN INDSTRS 9421591
*FUNCTNL PALLET SYS 9421465
*J HOOK INDST 9421233
*LASER DIE&ENGNRNG 9421461
4435*ACE BOLT&NUT CO H9573771
4445 NP
4457*G R DOALL CO 9420872
4467 NP
4475*COIN COURIER 9569205
4480 NP
4495*B&D FLOOR CVRG 9569555
4602*SLI MACHINERY CORP 9574940
4616*SLI PARTS&SERV 9569341
4628*B&B CARPET CLEANRS 9422346
*CERITFIED CHEMICL 9422346
4636*UNISTRUT DETROIT 9574647
4640*COUGHLIN TRANSPRT 9572561
4646*GRD RPS CELLULAR H9424791
4665*TURNER DEVELOPMNT -9573711
4710*STEIL INC -9400140
*STEIL INC H9400544
4720*BUTLER MFG BLDR 9493360
*MINER M C INC H9569569
*WOLVERINE BLDG 9493360
*WOLVERINE CRANE SV 9493360
5013 5151 NP
5215*SEARS RENT-A-CAR 9420201
5255*HERTZ RENT-A-CAR 9499004
5363*TRAVEL CNSLT CORP 9579200
*TRVL CNSLT CORP CT H9579200
5371*MOORMANS TRAVL SCH 9420391
5373*TYPE SOURCE 9572270
5377*EXECTV AIR TRANSP 9560056
5500*KENT CO AIRPORT
*AIRBORNE EXPRESS 9499650
*AIRPORT MOTEL 9495500
*AIRPORT RESTAURNTS 9496654
*AM AIRLINES INC 4565985
*AMERICAN AIRLINES 9566311
*AM AIRLINES INC 4561348
*AMR SERVICES CORP 942B757
*AUTODIE CORP 9422210
*AVIS RENT A CAR 9491720
*BUDGET RENT A CAR 9574677
*CFE SERVICES INC 9574051
5500*EMERY WORLDWIDE 9495104
*FLIGHT CENTER INC 9496997
*HERTZ RENT-A-CAR 9495430
*HERTZ RENT-A-CAR 9494410
*HOST INTENTL 9495500
*HOST RESTRNT 9496654
*KENT DEPT ARNTCS 9494500
*MARRIOTT GIFT SHOP 9495131
*MAYDAY AVIONICS 9574920
*R J MCCRACKEN 9421899
*R J MCCRACKEN&SON 9421860
*NATL CAR RENTAL 9493510
*NORTHERN AIR 9495000
*NORTHWEST AIRLINES -9491710
*SEARS RENT A CAR 9420201
*SIMMONS AIRLINES 9427622
*SIMMONS AIRLINES 9572637
*THE TRAVEL BUG 9570111
*TRIANGLE ASSOC 9498767
*US AIR 9570621
*US AIR 9570620
*UNION BANK&TRUST 4517030
*UNITED AIRLINES 4514581
*US FAA GEN AVTN OF 4562427
*US TRANS AIR TRFFC 9494090
*US FAA TOWER 9493072
*US TRANS AIR FACLT 9492080
*US TRANS FAA INFO 4562427
*US TREASRY CUSTMS 4562515
*WEST MI AVIATION 9426936
5510 NP
••••••R R 1•••••• 49508
6453 WILLIAM VENNEMAN 9493915
6521 BLAINE VENNEMAN 9493228
163 RESIDENCE 370 BUSINESS
44TH SW 49508
O• 1- 699 T 141 $E••G12
E• 2- 698 T 143 $D••H12
E• 700- 1598 T 145 $A••J11
O• 701- 1599 T 140 $C••H12
E• 1600- 2798 T 145 $A••J11
O• 1601- 2799 T 139 $C••H11
19*KIRBY SALES&SERVC -5321765
21*SKIS SUB SHOP -5309199
25*SPEEDY SHOE SRVC H5327715
27*JOES PIZZA KING 5348808
*JOES PIZZA KING 5349417
*PIZZA KING 5348808
31*ACE HARDWARE 5385170
40*ENGINE REBLDRS SPR 5383089
*PETER E EVERSDYK 5383089
*SKIL CORP 5385060
*SUPERIOR ENGINE 5383089
42 43 NP
50 TOM INGERSOLL 6 5309429
51*FARROWS MUSIC 5388430
*KEMA PRODUCTS 5388430
61 NP
109 S J P TARASIEWICZ 8 5389327
120 123 NP
131 MELVIN E SHIPPY 5380004
136 140 141 NP
144 RAYMOND YAEGER 5340625
153*MOSSELS BOOKPNG&TX H5343336
155 VIRGIL R DUNNE 5340618
160 NP
201 TIMOTHY WHEELER 0 5322956
202*CASSIS CORPORATN 5327793
*MOROOCK CHRPC HLTH 5325291
211 S MALONE 5327652
218 NP
219 R A SCHULTZ 5 5347155
222 223 NP
227 ROSS W POOLE 3 5340544
228 233 247 257 NP
301 NELSON ZOET 5347844
306 NP
311 WAYNE C COWELL H5309776
326 NP
334 ERIC JOHNSON 5 5348166
338 342 NP
362*L&B SERVICE 5388901
379*ELCTR CHEMCL FNSHG 5310670
403*MASTER TIRE SERV 5389760
*MASTER WAREHOUSE 5389760
410*ECONOMY OFC SPLY 5340636
437*BOX OFC VIDEO H5389960
*MICRAMAN 5383870
*PHILLIPS&ASSOCS 5382980
*STARMAKER VIDEO PR 5383870
439*ED NOOR PLUMBNG CO 5344473
441*VANDERKODDE CONSTR 5387470
445 NP
501*CLARK SVC STATION 5315200
521*MR CS 5309706
531 NP
600*AIS CONSTRUCTION 5382400
*AIS CONSTR EQPT 5382400
*CONTNTL EQUIPMNT 5382900
*CONTRACTORS RENTAL 5382400
*DISTRIBUTNG CORP 5382400
*MIDWEST EQPT CO 5389190
640*LITSCHER ELECTRIC -5308700
650*SUPER INSTA OIL&LB 5300792
•••••••••••••••••• 49509
700*PIZZA HUT -5321131
715*DENNYS RESTAURANT 5329227
727*SUPER 2 MOTEL H5308588
747*ALEX GRINBERGS -5387700
*WESTDLS BTR HM&GDN -5387700
767*FOUR STAR SRV STAS 5344913
808*MARINERS DISCT TRE 5346539
*MARINRS 44 ST SHLL 5346539
*MARINERS SHELL SV 5346539
825*BRUMMELS SALES&SVC 5344958
*BRUMMELS SALES&SV 5344958
865 DAVID GRIGGS H5315730
PHILIP IPEMA H5326588
JOHN LANG H5382854
CAROL NICHOLS 6 5343945
V ROYSTER -5313317
TONY SCATURRO 0 53183B4
D M SEMON 6 53004B1
867 CHAS H ARMSTRONG H5315054
BOB BEIGHLEY H5323796
RICHARD LUNDQUIST H5312328
LORRY PRUITT 6 5312606
JIM WICKERING 6 5346162
869 STEVEN G BOERSMA H5320560
DOUGLAS COOK H5320560
MICHELLE CRAIG H5340244
CARL KNOOP H5389332
K F OTTE H5316308
EBBEN RINARD 5 530978Z
LETHA ROBINSON H5327225
R ROBRAHN H5323382
LONG VUONG 4 5388057
900*MICHIGAN HOMES 53B7440
*MICHIGAN HOMES 5387260
*MI MOBILE HOMES 5387440
913 KELLY ANDERSON 5 5349445

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-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1987

		[illegible]		
1	2899*	JULIES FLWR		9492238
2	2902	RACHEL DICESARE	2	9496916
0	2904	ROD WEB8		9424055
5	2914	PAUL A CROWDER	6	9572107
2	2915	B E FRENCH	6	9496989
8	2926	NP		
3	2929	KEN CAREY	9	9492563
0	2930	WILLARD CRUMBACK		9493981
7	2950	NP		
6	2962	JAMES LOEKS	0	9428677
1	2965	PAUL SLATER		9491546
7	2975	WALTER K SCHMIDT		9491386
6	2984	VICTOR LUMLEY		9491385
0	2985	NP		
2	2986	DR JON M GANS		9421585
	3003	DONALD J FINCH	0	9493787
9	3010	J 8 HALPIN		9492718
6	3021	ARTHUR BUERKER	8	9421692
7	3024	F A SKIPPER		9491821
1	3032	GEORGE TEACHMAN	8	9497316
4	3044	NP		
	3056	KEN GRASHUIS	4	9493545
5	3082	JIM JAMES	0	949B484
1	3092	DONALD L CLARK		¤9491409
	314B	RO8ERT JANDERNOA		9491595
0	3150	FRED THOMAS	2	9422452
5		FRED THOMAS JR	3	9425881
2	3160	BERNARD L SMITH	1	9425152
	3161	ROBERT SPINETTO	2	9425344
5	3176	TOM J MOX	5	9573624
1	31B0	RONALD SMITH	6	9428373
	3190	JAMES FUGITT	2	9495629
6	3191	THOMAS P MITCHELL		9496206
9	3199	NP		
3				
9		●●●●●●R R 1●●●●●●		49508
3	3260*	THORNAPL COM CHRCH		9420821
5	3275	KIM R JOHNSON	1	9572566
2	3290	NP		
7	3312	NORMAN D DEWEERD		9492742
4	3334	DAVE W LOCKWOOD	2	9428749
0	33B1	NP		
7	3390	WAYNE R QUINT	9	9422144

¤ AS AUTHORIZED IN WRITING BY THE PUBLISHER

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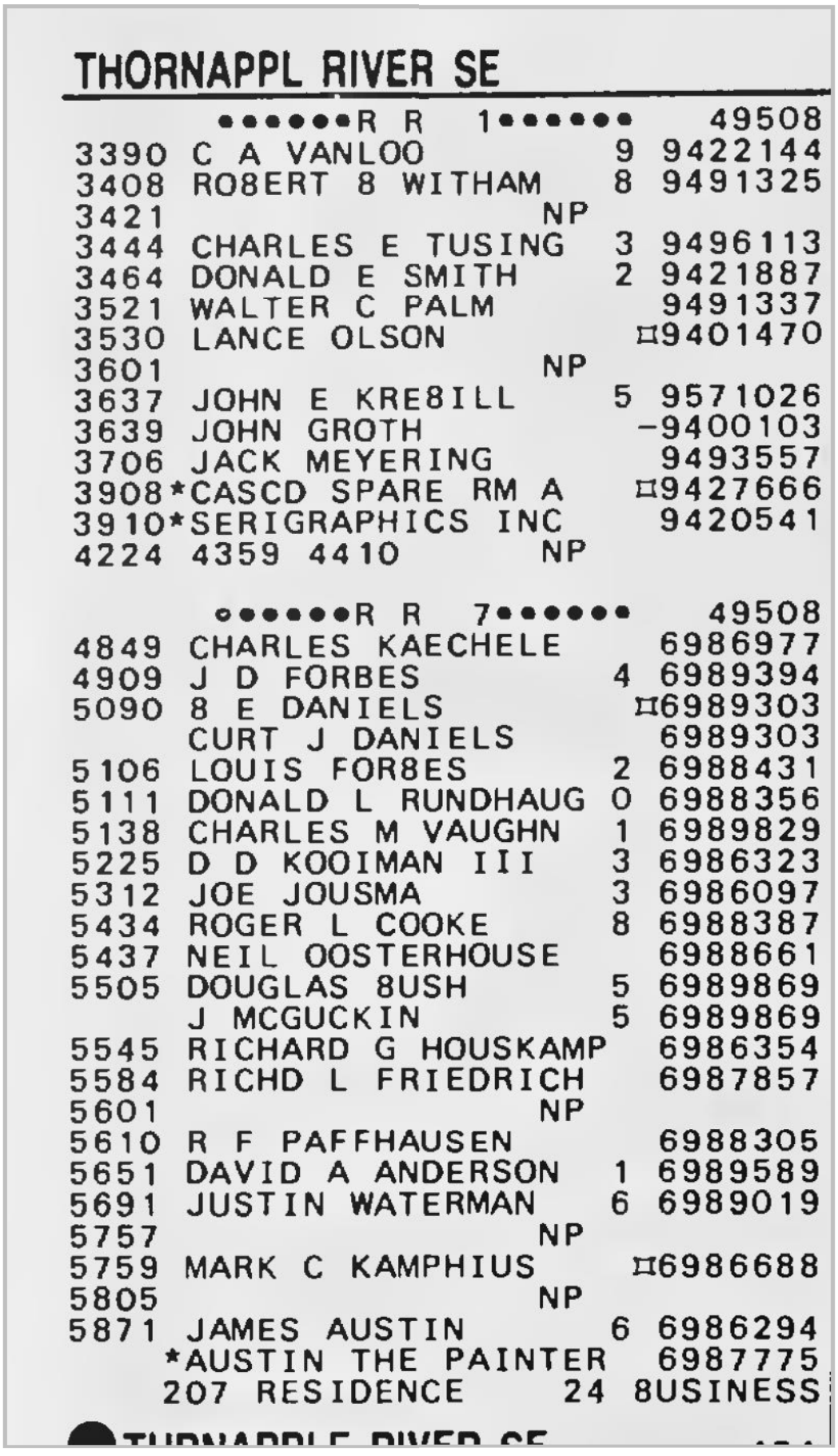
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1987

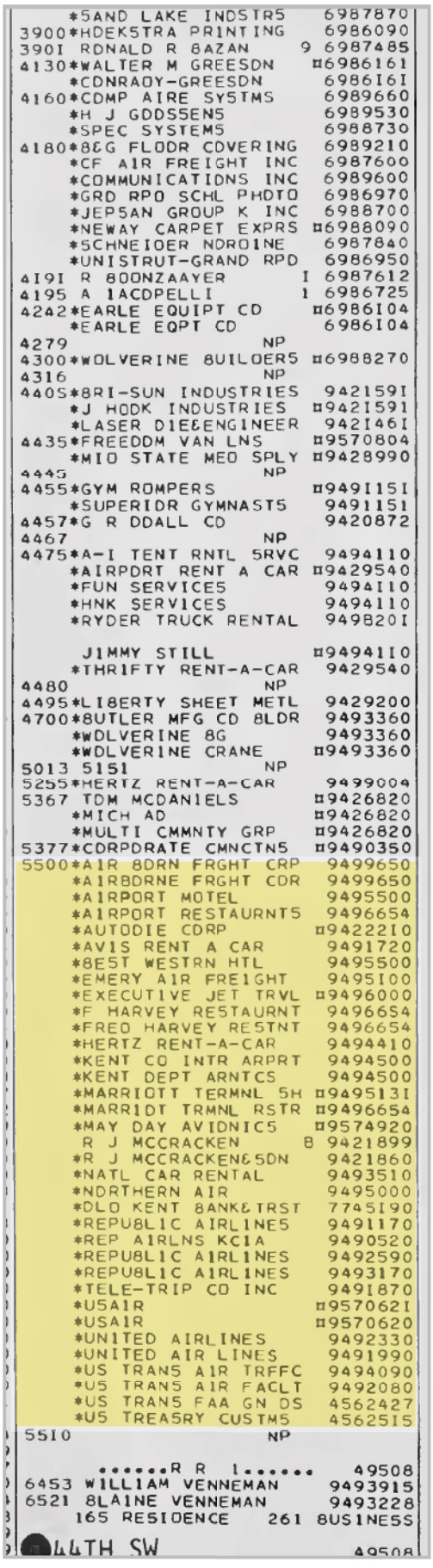


THORNAPPL RIVER SE

	••••••R R 1••••••		49508
3390	C A VANLOO	9	9422144
3408	ROBERT B WITHAM	8	9491325
3421		NP	
3444	CHARLES E TUSING	3	9496113
3464	DONALD E SMITH	2	9421887
3521	WALTER C PALM		9491337
3530	LANCE OLSON		¤9401470
3601		NP	
3637	JOHN E KREBILL	5	9571026
3639	JOHN GROTH		-9400103
3706	JACK MEYERING		9493557
3908	*CASCD SPARE RM A		¤9427666
3910	*SERIGRAPHICS INC		9420541
4224	4359 4410	NP	
	••••••R R 7••••••		49508
4849	CHARLES KAECHELE		6986977
4909	J D FORBES	4	6989394
5090	B E DANIELS		¤6989303
	CURT J DANIELS		6989303
5106	LOUIS FORBES	2	6988431
5111	DONALD L RUNDHAUG	0	6988356
5138	CHARLES M VAUGHN	1	6989829
5225	D D KOOIMAN III	3	6986323
5312	JOE JOUSMA	3	6986097
5434	ROGER L COOKE	8	6988387
5437	NEIL OOSTERHOUSE		6988661
5505	DOUGLAS BUSH	5	6989869
	J MCGUCKIN	5	6989869
5545	RICHARD G HOUSKAMP		6986354
5584	RICHD L FRIEDRICH		6987857
5601		NP	
5610	R F PAFFHAUSEN		6988305
5651	DAVID A ANDERSON	1	6989589
5691	JUSTIN WATERMAN	6	6989019
5757		NP	
5759	MARK C KAMPHIUS		¤6986688
5805		NP	
5871	JAMES AUSTIN	6	6986294
	*AUSTIN THE PAINTER		6987775
	207 RESIDENCE	24	BUSINESS

Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1982



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3900*HDEKSTRA PRINTING     6986090
3901 RONALD R &AZAN      9 6987485
4130*WALTER M GREESON     ¤6986161
    *CONRADY-GREESON       6986161
4160*COMP AIRE SYSTMS      6989660
    *H J GOOSSENS          6989530
    *SPEC SYSTEMS          6988730
4180*&&G FLOOR COVERING    6989210
    *CF AIR FREIGHT INC    6987600
    *COMMUNICATIONS INC    6989600
    *GRD RPD SCHL PHOTO    6986970
    *JEPSAN GROUP K INC    6988700
    *NEWAY CARPET EXPRS   ¤6988090
    *SCHNEIDER NORDINE     6987840
    *UNISTRUT-GRAND RPD    6986950
4191 R &OONZAAYER        I 6987612
4195 A 1ACOPELLI         1 6986725
4242*EARLE EQUIPT CO       ¤6986104
    *EARLE EQPT CO         6986104
4279                   NP
4300*WOLVERINE &UILDERS  ¤6988270
4316                   NP
4405*&RI-SUN INDUSTRIES    9421591
    *J HOOK INDUSTRIES    ¤9421591
    *LASER D1E&ENGINEER    9421461
4435*FREEDOM VAN LNS       ¤9570804
    *MID STATE MED SPLY   ¤9428990
4445                   NP
4455*GYM ROMPERS           ¤9491151
    *SUPERIOR GYMNASTS     9491151
4457*G R DOALL CO          9420872
4467                   NP
4475*A-I TENT RNTL SRVC    9494110
    *AIRPORT RENT A CAR   ¤9429540
    *FUN SERVICES          9494110
    *HNK SERVICES          9494110
    *RYDER TRUCK RENTAL    9498201

     JIMMY STILL          ¤9494110
    *THRIFTY RENT-A-CAR    9429540
4480                   NP
4495*LI&ERTY SHEET METL    9429200
4700*&UTLER MFG CO &LDR    9493360
    *WOLVERINE &G          9493360
    *WOLVERINE CRANE      ¤9493360
5013 5151              NP
5255*HERTZ RENT-A-CAR      9499004
5367 TOM MCDANIELS        ¤9426820
    *MICH AD              ¤9426820
    *MULTI CMMNTY GRP     ¤9426820
5377*CORPORATE CMNCTNS    ¤9490350
5500*AIR &ORNE FRGHT CRP    9499650
    *AIR&ORNE FRGHT COR    9499650
    *AIRPORT MOTEL         9495500
    *AIRPORT RESTAURNTS    9496654
    *AUTODIE CORP         ¤9422210
    *AVIS RENT A CAR       9491720
    *&EST WESTRN HTL       9495500
    *EMERY AIR FREIGHT     9495100
    *EXECUTIVE JET TRVL   ¤9496000
    *F HARVEY RESTAURNT    9496654
    *FRED HARVEY RESTNT    9496654
    *HERTZ RENT-A-CAR      9494410
    *KENT CO INTR ARPRT    9494500
    *KENT DEPT ARNTCS      9494500
    *MARRIOTT TERMNL SH   ¤9495131
    *MARRIOT TRMNL RSTR   ¤9496654
    *MAY DAY AVIONICS     ¤9574920
     R J MCCRACKEN       8 9421899
    *R J MCCRACKEN&SON     9421860
    *NATL CAR RENTAL       9493510
    *NORTHERN AIR          9495000
    *OLD KENT &ANK&TRST    7745190
    *REPU&LIC AIRLINES     9491170
    *REP AIRLNS KCIA       9490520
    *REPU&LIC AIRLINES     9492590
    *REPU&LIC AIRLINES     9493170
    *TELE-TRIP CO INC      9491870
    *USAIR                ¤9570621
    *USAIR                ¤9570620
    *UNITED AIRLINES       9492330
    *UNITED AIR LINES      9491990
    *US TRANS AIR TRFFC    9494090
    *US TRANS AIR FACLT    9492080
    *US TRANS FAA GN OS    4562427
    *US TREASRY CUSTMS     4562515
5510                   NP

      ......R R l......     49508
6453 WILLIAM VENNEMAN      9493915
6521 &LAINE VENNEMAN       9493228
    165 RESIDENCE   261 &USINESS

44TH SW                    49508
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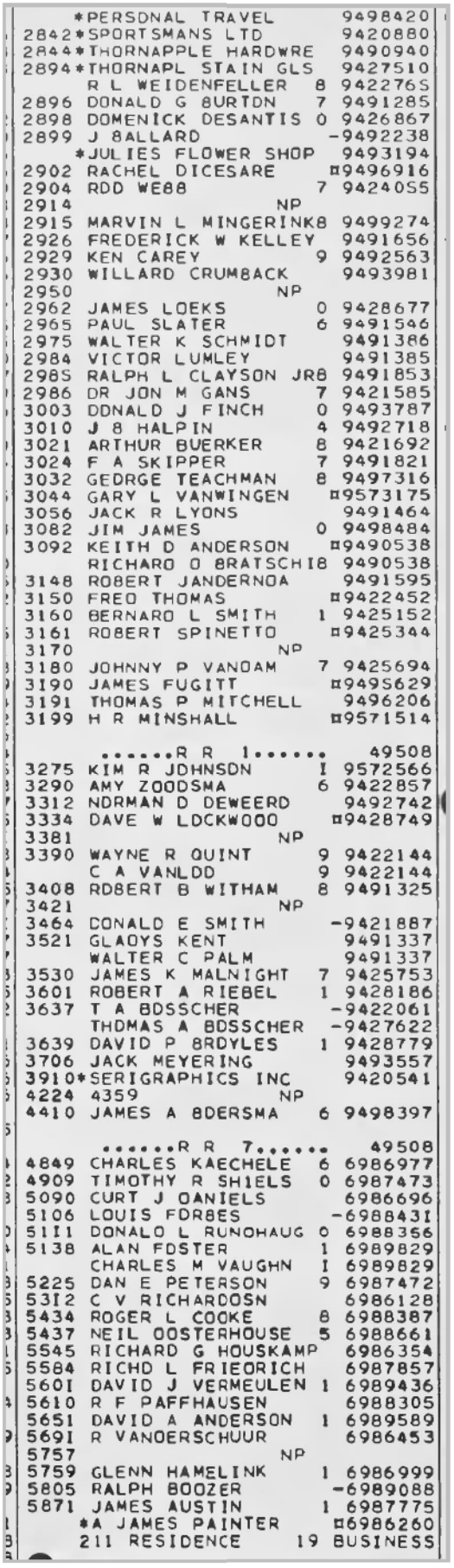
Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1982



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     *PERSONAL TRAVEL          9498420
2842*SPORTSMANS LTD            9420880
2844*THORNAPPLE HARDWRE        9490940
2894*THORNAPL STAIN GLS        9427510
     R L WEIDENFELLER      8   9422765
2896 DONALD G BURTON       7   9491285
2898 DOMENICK DESANTIS     0   9426867
2899 J BALLARD                -9492238
     *JULIES FLOWER SHOP       9493194
2902 RACHEL DICESARE          ¤9496916
2904 ROD WEBB              7   9424055
2914                    NP
2915 MARVIN L MINGERINK    8   9499274
2926 FREDERICK W KELLEY        9491656
2929 KEN CAREY             9   9492563
2930 WILLARD CRUMBACK          9493981
2950                    NP
2962 JAMES LOEKS           0   9428677
2965 PAUL SLATER           6   9491546
2975 WALTER K SCHMIDT          9491386
2984 VICTOR LUMLEY             9491385
2985 RALPH L CLAYSON JR    8   9491853
2986 DR JON M GANS         7   9421585
3003 DONALD J FINCH        0   9493787
3010 J B HALPIN            4   9492718
3021 ARTHUR BUERKER        8   9421692
3024 F A SKIPPER           7   9491821
3032 GEORGE TEACHMAN       8   9497316
3044 GARY L VANWINGEN         ¤9573175
3056 JACK R LYONS              9491464
3082 JIM JAMES             0   9498484
3092 KEITH D ANDERSON         ¤9490538
     RICHARD O BRATSCH     8   9490538
3148 ROBERT JANDERNOA          9491595
3150 FRED THOMAS              ¤9422452
3160 BERNARD L SMITH       1   9425152
3161 ROBERT SPINETTO          ¤9425344
3170                    NP
3180 JOHNNY P VANDAM       7   9425694
3190 JAMES FUGITT             ¤9495629
3191 THOMAS P MITCHELL         9496206
3199 H R MINSHALL             ¤9571514

     ......R R  1......           49508
3275 KIM R JOHNSON         I   9572566
3290 AMY ZOODSMA           6   9422857
3312 NORMAN D DEWEERD          9492742
3334 DAVE W LOCKWOOD          ¤9428749
3381                    NP
3390 WAYNE R QUINT         9   9422144
     C A VANLOO            9   9422144
3408 ROBERT B WITHAM       8   9491325
3421                    NP
3464 DONALD E SMITH           -9421887
3521 GLADYS KENT               9491337
     WALTER C PALM             9491337
3530 JAMES K MALNIGHT      7   9425753
3601 ROBERT A RIEBEL       1   9428186
3637 T A BOSSCHER             -9422061
     THOMAS A BOSSCHER        -9427622
3639 DAVID P BROYLES       1   9428779
3706 JACK MEYERING             9493557
3910*SERIGRAPHICS INC          9420541
4224 4359                  NP
4410 JAMES A BOERSMA       6   9498397

     ......R R  7......           49508
4849 CHARLES KAECHELE      6   6986977
4909 TIMOTHY R SHIELS      0   6987473
5090 CURT J DANIELS            6986696
5106 LOUIS FORBES             -6988431
5111 DONALD L RUNOHAUG     0   6988356
5138 ALAN FOSTER           1   6989829
     CHARLES M VAUGHN      1   6989829
5225 DAN E PETERSON        9   6987472
5312 C V RICHARDSON            6986128
5434 ROGER L COOKE         8   6988387
5437 NEIL OOSTERHOUSE      5   6988661
5545 RICHARD G HOUSKAMP        6986354
5584 RICHD L FRIEORICH         6987857
5601 DAVID J VERMEULEN     1   6989436
5610 R F PAFFHAUSEN            6988305
5651 DAVID A ANDERSON      1   6989589
5691 R VANDERSCHUUR            6986453
5757                    NP
5759 GLENN HAMELINK        1   6986999
5805 RALPH BOOZER             -6989088
5871 JAMES AUSTIN          1   6987775
     *A JAMES PAINTER         ¤6986260
     211 RESIDENCE        19 BUSINESS
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44TH ST SE 1977

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0 3268                          NP
4 3322 JAMES O WALTER        9  6986459
4 3325 BEN PDLL                 6988755
0 3350 CORKY GRAVENGCCO      4  6988154
0      RANDALL J HOEFLER     4  6988154
0      CRAIG SMITH           4  6988154
0 3356*MEADOWLN GLF CRSE        6988034
  3410 ROBERT A GLOAS        5  6986854
0 3631 ALLEN L FEENSTRA      6  6989029
0 3680                          NP
5 3744 EDWARO C OPPENNEER1      6988589
  3760 REIMER FREYLING          6988605
0 3777*CERTIFIED TESTING     ¤6989480
     *PROOS-HELMLS INC       ¤6988100
8 3823 JEROLD PELL JR           6988644
3 3839 WILLIAM E EITEL          6988927
8 3900*HOEKSTRA PRINTING        6986090
2 3901                          NP
7 3950*ROBERT E BRADY           6988610
4 4130*CONRADY-GREESON          6986161
0 4160*BAMAL CORP               6986550
0     *INTERNATNAL PROTCL       ¤6987010
0     *SPECLZD SCRTY SYST       6986414
0     *SUPERIOR GYMNASTIC       6988990
0 4180*B&G FLOOR COVERING       ¤6989210
0     *UNISTRUT-GRAND RPD       6986950
0     *VICTOR CCMPTMTR CP       6986910
0 4191 R LAURILA             4  6986604
0 4195 K SCHUBACK            5  6988621
0 4242*EARLE EQPT CO            6986104
0 4279 ROBERT VANDENELST     5  6988633
0 4316                          NP
0 4425*RAY OON BINDERY SV       9490060
0     *WOLF DETROIT ENVLP       9422221
0 4435*MONROE INC               9429820
0 4445                          NP
0 4457*G R OOALL CO             9420872
0 4467                          NP
0 4475*COLWELL EQUIP CC         9422825
0 4480                          NP
0 4495*LIBERTY SHEET METL       9429200
4 5013                          NP
0 5100*HART PRODUCE INC         6699533
0 5151                          NP
0 5255*HERTZ RENT-A-CAR         9499004
0 5500*AIR TRANSFER INC         9499150
0     *AIRBORNE FRGHT COR       9499650
0     *AIRPORT MARINA HTL       9495500
0     *AIRPORT RESTAURNTS       9496654

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✓	-	Bresser's Cross-Index Directory

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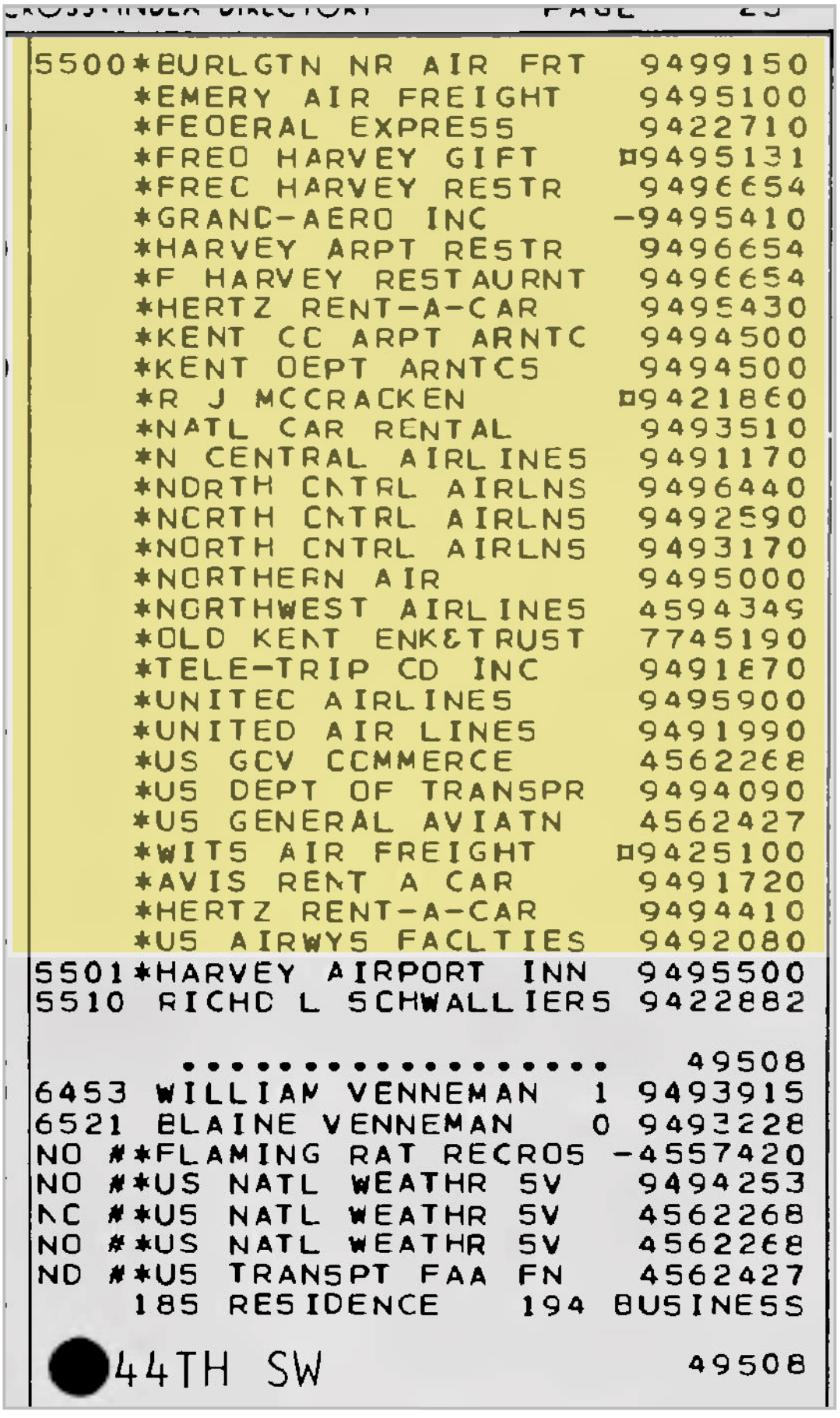

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CROSS-INDEX DIRECTORY                    PAGE      25

5500*BURLGTN NR AIR FRT          9499150
     *EMERY AIR FREIGHT          9495100
     *FEDERAL EXPRESS            9422710
     *FRED HARVEY GIFT          □9495131
     *FRED HARVEY RESTR          9496654
     *GRAND-AERO INC            -9495410
     *HARVEY ARPT RESTR          9496654
     *F HARVEY RESTAURNT         9496654
     *HERTZ RENT-A-CAR           9495430
     *KENT CO ARPT ARNTC         9494500
     *KENT DEPT ARNTCS           9494500
     *R J MCCRACKEN             □9421860
     *NATL CAR RENTAL            9493510
     *N CENTRAL AIRLINES         9491170
     *NORTH CNTRL AIRLNS         9496440
     *NORTH CNTRL AIRLNS         9492590
     *NORTH CNTRL AIRLNS         9493170
     *NORTHERN AIR               9495000
     *NORTHWEST AIRLINES         4594349
     *OLD KENT BNK&TRUST         7745190
     *TELE-TRIP CO INC           9491870
     *UNITED AIRLINES            9495900
     *UNITED AIR LINES           9491990
     *US GOV COMMERCE            4562268
     *US DEPT OF TRANSPR         9494090
     *US GENERAL AVIATN          4562427
     *WITS AIR FREIGHT          □9425100
     *AVIS RENT A CAR            9491720
     *HERTZ RENT-A-CAR           9494410
     *US AIRWYS FACLTIES         9492080
5501*HARVEY AIRPORT INN          9495500
5510 RICHD L SCHWALLIERS         9422882

          ..................        49508
6453 WILLIAM VENNEMAN    1       9493915
6521 BLAINE VENNEMAN     0       9493228
NO **FLAMING RAT RECROS          -4557420
NO **US NATL WEATHR SV            9494253
NC **US NATL WEATHR SV            4562268
NO **US NATL WEATHR SV            4562268
ND **US TRANSPT FAA FN            4562427
     185 RESIDENCE    194 BUSINESS

● 44TH SW                              49508
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Target Street	Cross Street	Source
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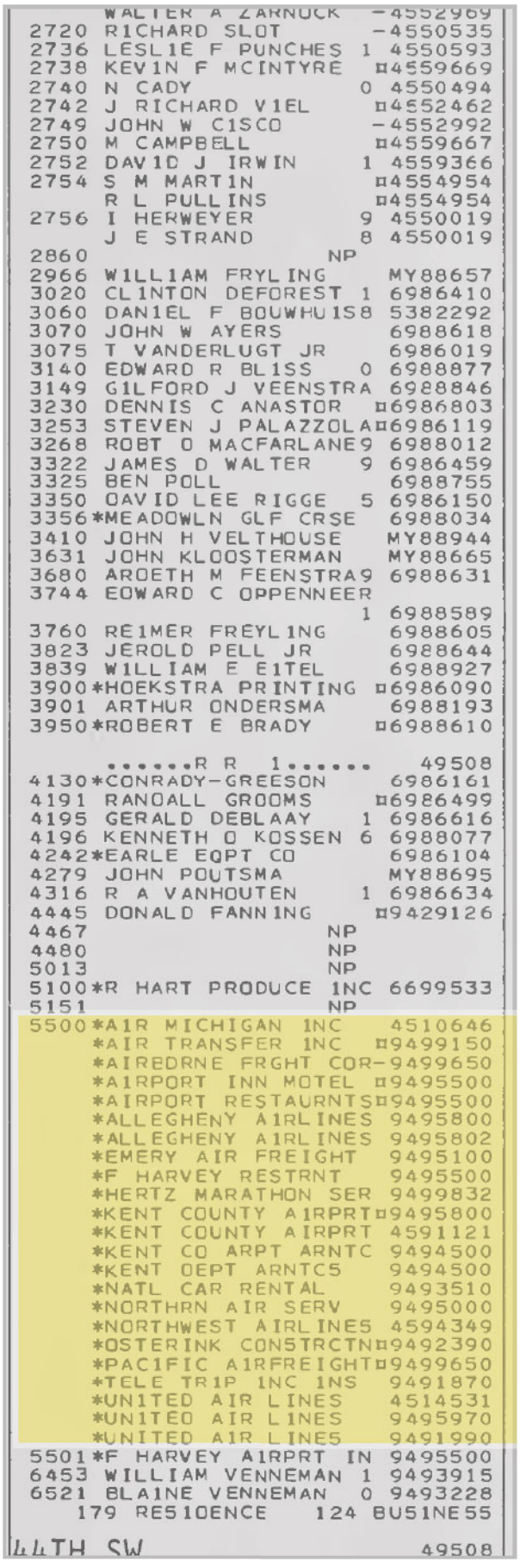
THORNAPPLE RIVER DR SE 1977

3056	JACK R LYONS		9491464
3082	J E COPE		9491467
3148	ROBERT JANOERNDA		9491595
3150	DONALD A SLANINA	6	9429087
3161	ROBERT W PERKINS		◘9425802
3180	JOHNNY P VANDAM		-9425694
3191	THOMAS P MITCHELL	8	9496206
3199	LEE PATTERSON	0	9492342
	••••••R R 1••••••		49508
3275	P CLIFFORD		◘9425711
3290	AMY ZOODSMA	6	9422857
3312	NORMAN C DEWEERD		9492742
3334	M E VOLK		◘9422617
3381		NP	
3421		NP	
3521	GLADYS KENT		9491337
	WALTER C PALM		9491337
3530	JAMES K MALNIGHT		-9425753
3637	LARRY R RADLE		◘9421519
3706	JACK MEYERING		9493557
3900	*EEALL MANUFACTURNG		9499070
3910	*SERIGRAPHICS CO		9420541
4224	LEO M VENNEMAN		9493811
4359		NP	
4410	JAMES A BOERSMA	6	9498397
4849	CHARLES KAECHELE	6	6986977
4909	KENNETh h HILL		◘6987969
5090	CURT J DANIELS	2	6986696
5106	STEVEN E FORBES		-6986661
5111	DONALD L RUNDHAUG		MY88356
5138	EDWARD N DEVREE		6988227
5225	THEODORE C RIZOR	8	6986348
5312	C V E RICHARDSON		6986128
5434	CLARENCE COOKE		6988387
5437	NEIL DOSTERHOUSE	5	6988661
5545	RICHARD G HOUSKAMP	9	6986354
5584	RICHD E FRIEDRICH		6988607
5610	R F PAFFhAUSEN		6988305
5651	ROBERT F SMITH	1	6988919
5691	R J VANDERSCHUUR	9	6986453
5757	THOMAS E ANASTOR		◘6989672
5805	TED L KONING	0	6988922
5871	*CASCADE CEMENT		6986820
	*J B DENHARTIGH		6986820
	*J B DENHARTIGH		6986820
6691		NP	
6807		NP	
	175 RESIDENCE	17	BUSINESS

Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1972



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      WALTER A ZARNOCK   -4552969
 2720 RICHARD SLOT       -4550535
 2736 LESLIE F PUNCHES 1 4550593
 2738 KEVIN F MCINTYRE  ¤4559669
 2740 N CADY            0 4550494
 2742 J RICHARD VIEL     ¤4552462
 2749 JOHN W CISCO       -4552992
 2750 M CAMPBELL         ¤4559667
 2752 DAVID J IRWIN     1 4559366
 2754 S M MARTIN         ¤4554954
      R L PULLINS        ¤4554954
 2756 I HERWEYER        9 4550019
      J E STRAND        8 4550019
 2860                NP
 2966 WILLIAM FRYLING     MY88657
 3020 CLINTON DEFOREST 1 6986410
 3060 DANIEL F BOUWHUIS8 5382292
 3070 JOHN W AYERS        6988618
 3075 T VANDERLUGT JR     6986019
 3140 EDWARD R BLISS    0 6988877
 3149 GILFORD J VEENSTRA 6988846
 3230 DENNIS C ANASTOR  ¤6986803
 3253 STEVEN J PALAZZOLA¤6986119
 3268 ROBT O MACFARLANE9 6988012
 3322 JAMES D WALTER    9 6986459
 3325 BEN POLL            6988755
 3350 DAVID LEE RIGGE   5 6986150
 3356*MEADOWLN GLF CRSE   6988034
 3410 JOHN H VELTHOUSE    MY88944
 3631 JOHN KLOOSTERMAN    MY88665
 3680 AROETH M FEENSTRA9 6988631
 3744 EDWARD C OPPENNEER
                        1 6988589
 3760 REIMER FREYLING     6988605
 3823 JEROLD PELL JR      6988644
 3839 WILLIAM E EITEL     6988927
 3900*HOEKSTRA PRINTING ¤6986090
 3901 ARTHUR ONDERSMA     6988193
 3950*ROBERT E BRADY     ¤6988610

      ......R R  1......    49508
 4130*CONRADY-GREESON      6986161
 4191 RANDALL GROOMS     ¤6986499
 4195 GERALD DEBLAAY    1 6986616
 4196 KENNETH O KOSSEN 6 6988077
 4242*EARLE EQPT CO        6986104
 4279 JOHN POUTSMA         MY88695
 4316 R A VANHOUTEN     1 6986634
 4445 DONALD FANNING     ¤9429126
 4467                NP
 4480                NP
 5013                NP
 5100*R HART PRODUCE 1NC 6699533
 5151                NP
 5500*AIR MICHIGAN INC     4510646
      *AIR TRANSFER INC  ¤9499150
      *AIREDRNE FRGHT COR-9499650
      *AIRPORT INN MOTEL ¤9495500
      *AIRPORT RESTAURNTS¤9495500
      *ALLEGHENY AIRLINES 9495800
      *ALLEGHENY AIRLINES 9495802
      *EMERY AIR FREIGHT  9495100
      *F HARVEY RESTRNT   9495500
      *HERTZ MARATHON SER 9499832
      *KENT COUNTY AIRPRT¤9495800
      *KENT COUNTY AIRPRT 4591121
      *KENT CO ARPT ARNTC 9494500
      *KENT DEPT ARNTCS   9494500
      *NATL CAR RENTAL    9493510
      *NORTHRN AIR SERV   9495000
      *NORTHWEST AIRLINES 4594349
      *OSTERINK CONSTRCTN¤9492390
      *PACIFIC AIRFREIGHT¤9499650
      *TELE TRIP INC INS  9491870
      *UNITED AIR LINES   4514531
      *UNITED AIR LINES   9495970
      *UNITED AIR LINES   9491990
 5501*F HARVEY AIRPRT IN 9495500
 6453 WILLIAM VENNEMAN 1 9493915
 6521 BLAINE VENNEMAN  0 9493228
    179 RESIDENCE   124 BUSINESS
44TH SW                   49508
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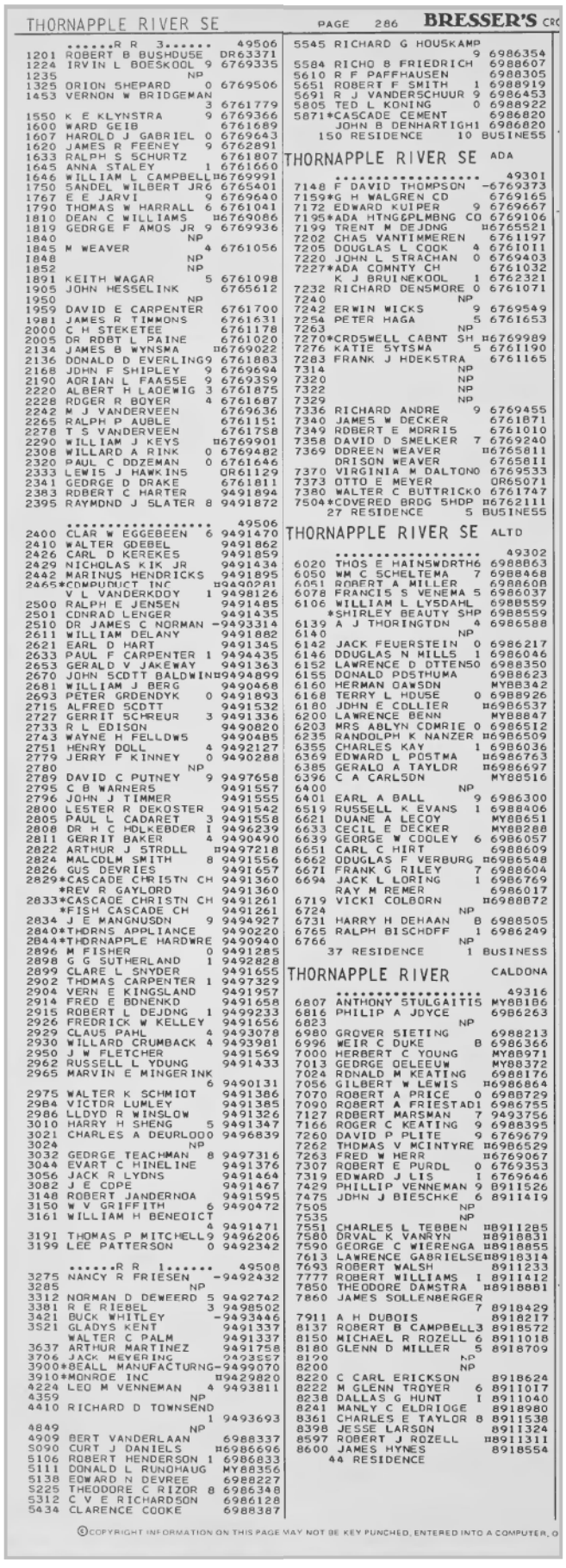
Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1972



THORNAPPLE RIVER SE — PAGE 286 — BRESSER'S CRO

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      ******R R  3******    49506
1201 ROBERT B BUSHOUSE     DR63371
1224 IRVIN L BOESKOOL  9 6769335
1235                NP
1325 ORION SHEPARD     0 6769506
1453 VERNON W BRIDGEMAN
                       3 6761779
1550 K E KLYNSTRA      9 6769366
1600 WARD GEIB           6761689
1607 HAROLD J GABRIEL  0 6769643
1620 JAMES R FEENEY    9 6762891
1633 RALPH S SCHURTZ     6761807
1645 ANNA STALEY       1 6761660
1646 WILLIAM L CAMPBELL  #6769991
1750 SANDEL WILBERT JR6 6765401
1767 E E JARVI         9 6769640
1790 THOMAS W HARRALL  6 6761041
1810 DEAN C WILLIAMS     #6769086
1819 GEORGE F AMOS JR  9 6769936
1840                NP
1845 M WEAVER          4 6761056
1848                NP
1852                NP
1891 KEITH WAGAR       5 6761098
1905 JOHN HESSELINK      6765612
1950                NP
1959 DAVID E CARPENTER   6761700
1981 JAMES R TIMMONS     6761631
2000 C H STEKETEE        6761178
2005 DR ROBT L PAINE     6761020
2134 JAMES B WYNSMA      #6769022
2136 DONALD D EVERLING9  6761883
2168 JOHN F SHIPLEY    9 6769694
2190 ADRIAN L FAASSE   9 6769359
2220 ALBERT H LADEWIG  3 6761875
2228 ROGER R BOYER     4 6761687
2242 M J VANDERVEEN      6769636
2265 RALPH P AUBLE       6761151
2278 T S VANDERVEEN      6761758
2290 WILLIAM J KEYS      #6769901
2308 WILLARD A RINK    0 6769482
2320 PAUL C DDZEMAN    0 6761646
2333 LEWIS J HAWKINS     OR61129
2341 GEORGE D DRAKE      6761811
2383 ROBERT C HARTER     9491894
2395 RAYMOND J SLATER  8 9491872

      ******    49506
2400 CLAR W EGGEBEEN   6 9491470
2410 WALTER GOEBEL       9491862
2426 CARL D KEREKES      9491859
2429 NICHOLAS KIK JR     9491434
2442 MARINUS HENDRICKS   9491895
2465*COMPUNICT INC       #9490281
     V L VANDERKOOY    1 9498126
2500 RALPH E JENSEN      9491485
2501 CONRAD LENGER       9491435
2510 DR JAMES C NORMAN -9493314
2611 WILLIAM DELANY      9491882
2621 EARL D HART         9491345
2633 PAUL F CARPENTER  1 9494435
2653 GERALD V JAKEWAY    9491363
2670 JOHN SCOTT BALDWIN  #9494899
2681 WILLIAM J BERG      9490468
2693 PETER GROENDYK    0 9491893
2715 ALFRED SCOTT        9491532
2727 GERRIT SCHREUR    3 9491336
2733 R L EDISON          9490820
2743 WAYNE H FELLOWS     9490485
2751 HENRY DOLL        4 9492127
2779 JERRY F KINNEY    0 9490288
2780                NP
2789 DAVID C PUTNEY    9 9497658
2795 C B WARNERS         9491557
2796 JOHN J TIMMER       9491555
2800 LESTER R DEKOSTER   9491542
2805 PAUL L CADARET    3 9491558
2808 DR H C HOLKEBOER  I 9496239
2811 GERRIT BAKER      4 9490490
2822 ARTHUR J STROLL     #9497218
2824 MALCOLM SMITH     8 9491556
2826 GUS DEVRIES         9491657
2829*CASCADE CHRISTN CH  9491360
     *REV R GAYLORD      9491360
2833*CASCADE CHRISTN CH  9491261
     *FISH CASCADE CH    9491261
2834 J E MANGNUSDN     9 9494927
2840*THORNS APPLIANCE      9490220
2844*THORNAPPLE HARDWRE  9490940
2896 M FISHER          0 9491285
2898 G G SUTHERLAND    1 9492828
2899 CLARE L SNYDER      9491655
2902 THOMAS CARPENTER  1 9497329
2904 VERN E KINGSLAND    9491957
2914 FRED E BONENKD      9491658
2915 ROBERT L DEJONG   1 9499233
2926 FREDRICK W KELLEY   9491656
2929 CLAUS PAHL        4 9493078
2930 WILLARD CRUMBACK  4 9493981
2950 J W FLETCHER        9491569
2962 RUSSELL L YOUNG     9491433
2965 MARVIN E MINGERINK
                       6 9490131
2975 WALTER K SCHMIOT    9491386
2984 VICTOR LUMLEY       9491385
2986 LLOYD R WINSLOW     9491326
3010 HARRY H SHENG     5 9491347
3021 CHARLES A DEURLOOO  9496839
3024                NP
3032 GEORGE TEACHMAN   8 9497316
3044 EVART C HINELINE    9491376
3056 JACK R LYONS        9491464
3082 J E COPE            9491467
3148 ROBERT JANDERNOA    9491595
3150 W V GRIFFITH      6 9490472
3161 WILLIAM H BENEDICT
                       4 9491471
3191 THOMAS P MITCHELL9  9496206
3199 LEE PATTERSON     0 9492342

      ******R R  1******    49508
3275 NANCY R FRIESEN     -9492432
3285                NP
3312 NORMAN D DEWEERD  5 9492742
3381 R E RIEBEL        3 9498502
3421 BUCK WHITLEY        -9493446
3521 GLADYS KENT         9491337
     WALTER C PALM       9491337
3637 ARTHUR MARTINEZ     9491758
3706 JACK MEYERING       9493557
3900*BEALL MANUFACTURNG-9499070
3910*MONROE INC            #9429820
4224 LEO M VENNEMAN    4 9493811
4359                NP
4410 RICHARD D TOWNSEND
                       1 9493693
4849                NP
4909 BERT VANDERLAAN     6988337
5090 CURT J DANIELS      #6986696
5106 ROBERT HENDERSON  1 6986833
5111 DONALD L RUNOHAUG   MY88356
5138 EDWARD N DEVREE     6988227
5225 THEODORE C RIZOR  8 6986348
5312 C V E RICHARDSON    6986128
5434 CLARENCE COOKE      6988387
5545 RICHARD G HOUSKAMP
                       9 6986354
5584 RICHO B FRIEDRICH   6988607
5610 R F PAFFHAUSEN      6988305
5651 ROBERT F SMITH    1 6988919
5691 R J VANDERSCHUUR  9 6986453
5805 TED L KONING      0 6988922
5871*CASCADE CEMENT      6986820
     JOHN B DENHARTIGH1  6986820
   150 RESIDENCE       10 BUSINESS

THORNAPPLE RIVER SE  ADA

      ******    49301
7148 F DAVID THOMPSON  -6769373
7159*G H WALGREN CO      6769165
7172 EDWARD KUIPER     9 6769667
7195*ADA HTNG&PLMBNG CO  6769106
7199 TRENT M DEJONG      #6765521
7202 CHAS VANTIMMEREN    6761197
7205 DOUGLAS L COOK    4 6761011
7220 JOHN L STRACHAN   0 6769403
7227*ADA COMNTY CH       6761032
     K J BRUINEKOOL    1 6762321
7232 RICHARD DENSMORE  0 6761071
7240                NP
7242 ERWIN WICKS       9 6769549
7254 PETER HAGA        5 6761653
7263                NP
7270*CRDSWELL CABNT SH  #6769989
7276 KATIE SYTSMA      5 6761190
7283 FRANK J HOEKSTRA    6761165
7314                NP
7320                NP
7322                NP
7329                NP
7336 RICHARD ANDRE     9 6769455
7340 JAMES W DECKER      6761871
7349 ROBERT E MORRIS     6761010
7358 DAVID D SMELKER   7 6769240
7369 DOREEN WEAVER       #6765811
     DRISON WEAVER       6765811
7370 VIRGINIA M DALTONO  6769533
7373 OTTO E MEYER        OR65071
7380 WALTER C BUTTRICKO  6761747
7504*COVERED BRDG SHOP   #6762111
   27 RESIDENCE        5 BUSINESS

THORNAPPLE RIVER SE  ALTO

      ******    49302
6020 THOS E HAINSWORTH6  6988863
6050 WM C SCHELTEMA    7 6988468
6051 ROBERT A MILLER     6988608
6078 FRANCIS S VENEMA  5 6986037
6106 WILLIAM L LYSDAHL   6988559
     *SHIRLEY BEAUTY SHP 6988559
6139 A J THORINGTON    4 6986588
6140                NP
6142 JACK FEUERSTEIN   0 6986217
6146 DOUGLAS N MILLS   1 6986046
6152 LAWRENCE D OTTEN50  6988350
6155 DONALD POSTHUMA     6988623
6160 HERMAN DAWSON       MY88342
6168 TERRY L HOUSE     0 6988926
6180 JOHN E COLLIER      #6986537
6200 LAWRENCE BENN       MY88847
6203 MRS ARLYN COMRIE  0 6986512
6235 RANDOLPH K NANZER   #6986509
6355 CHARLES KAY       1 6986036
6369 EDWARD L POSTMA     #6986763
6385 GERALD A TAYLOR     #6986697
6396 C A CARLSON         MY88516
6400                NP
6401 EARL A BALL       9 6986300
6519 RUSSELL K EVANS   1 6988406
6621 DUANE A LECOY       MY88651
6633 CECIL E DECKER      MY88288
6639 GEORGE W COOLEY   6 6986057
6651 CARL C HIRT         6988609
6662 DOUGLAS F VERBURG   #6986548
6671 FRANK G RILEY     7 6988604
6694 JACK L LORING     1 6986769
     RAY M REMER         6986017
6719 VICKI COLBORN       #6988872
6724                NP
6731 HARRY H DEHAAN    B 6988505
6765 RALPH BISCHOFF    1 6986249
6766                NP
   37 RESIDENCE        1 BUSINESS

THORNAPPLE RIVER  CALDONA

      ******    49316
6807 ANTHONY STULGAITIS  MY88186
6816 PHILIP A JOYCE      6986263
6823                NP
6980 GROVER SIETING      6988213
6996 WEIR C DUKE       B 6986366
7000 HERBERT C YOUNG     MY88971
7013 GEORGE DELEEUW      MY88372
7024 RONALD M KEATING    6988176
7056 GILBERT W LEWIS     #6986864
7070 ROBERT A PRICE    0 6988729
7090 ROBERT A FRIESTAD1  6986755
7127 ROBERT MARSMAN    7 9493756
7166 ROGER C KEATING   9 6988395
7260 DAVID P PLITE     9 6769679
7262 THOMAS V MCINTYRE   #6986529
7263 FRED W HERR         #6769067
7307 ROBERT E PURDL    0 6769353
7319 EDWARD J LIS      1 6769646
7429 PHILLIP VENNEMAN  9 8911526
7475 JOHN J BIESCHKE   6 8911419
7505                NP
7535                NP
7551 CHARLES L TEBBEN    #8911285
7580 ORVAL K VANRYN      #8918831
7590 GEORGE C WIERENGA   #8918855
7613 LAWRENCE GABRIELSE  #8913514
7693 ROBERT WALSH        8911233
7777 ROBERT WILLIAMS   1 8911412
7850 THEODORE DAMSTRA    #8918881
7860 JAMES SOLLENBERGER
                       7 8918429
7911 A H DUBOIS          8918217
8137 ROBERT B CAMPBELL3  8918572
8150 MICHAEL R ROZELL  6 8911018
8180 GLENN D MILLER    5 8918709
8190                NP
8200                NP
8220 C CARL ERICKSON     8918624
8222 M GLENN TROYER    6 8911017
8238 DALLAS G HUNT     1 8911040
8241 MANLY C ELDRIDGE    8918980
8361 CHARLES E TAYLOR  8 8911538
8398 JESSE LARSON        8911324
8597 ROBERT J ROZELL     #8911311
8600 JAMES HYNES         8918554
   44 RESIDENCE
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Target Street	Cross Street	Source
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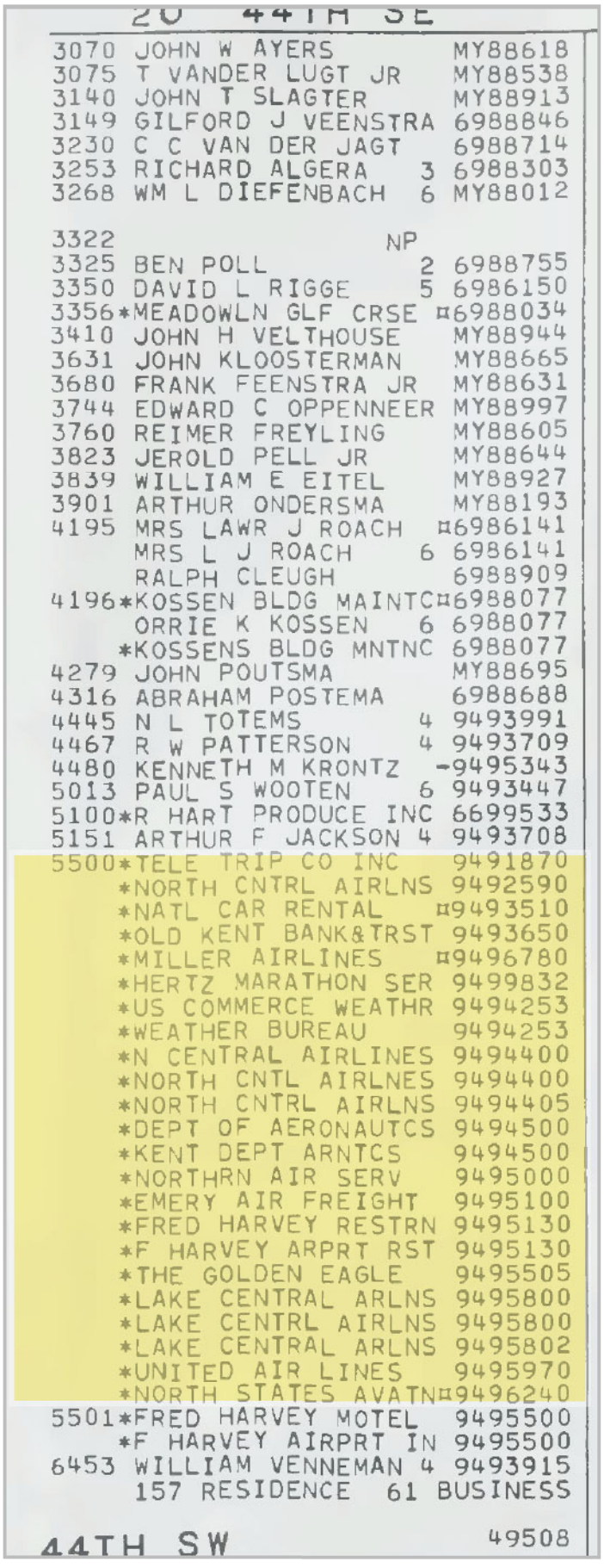
44TH ST SE 1967



20 44TH SE

3070 JOHN W AYERS MY88618
3075 T VANDER LUGT JR MY88538
3140 JOHN T SLAGTER MY88913
3149 GILFORD J VEENSTRA 6988846
3230 C C VAN DER JAGT 6988714
3253 RICHARD ALGERA 3 6988303
3268 WM L DIEFENBACH 6 MY88012

3322 NP
3325 BEN POLL 2 6988755
3350 DAVID L RIGGE 5 6986150
3356*MEADOWLN GLF CRSE ¤6988034
3410 JOHN H VELTHOUSE MY88944
3631 JOHN KLOOSTERMAN MY88665
3680 FRANK FEENSTRA JR MY88631
3744 EDWARD C OPPENNEER MY88997
3760 REIMER FREYLING MY88605
3823 JEROLD PELL JR MY88644
3839 WILLIAM E EITEL MY88927
3901 ARTHUR ONDERSMA MY88193
4195 MRS LAWR J ROACH ¤6986141
MRS L J ROACH 6 6986141
RALPH CLEUGH 6988909
4196*KOSSEN BLDG MAINTC¤6988077
ORRIE K KOSSEN 6 6988077
*KOSSENS BLDG MNTNC 6988077
4279 JOHN POUTSMA MY88695
4316 ABRAHAM POSTEMA 6988688
4445 N L TOTEMS 4 9493991
4467 R W PATTERSON 4 9493709
4480 KENNETH M KRONTZ -9495343
5013 PAUL S WOOTEN 6 9493447
5100*R HART PRODUCE INC 6699533
5151 ARTHUR F JACKSON 4 9493708
5500*TELE TRIP CO INC 9491870
*NORTH CNTRL AIRLNS 9492590
*NATL CAR RENTAL ¤9493510
*OLD KENT BANK&TRST 9493650
*MILLER AIRLINES ¤9496780
*HERTZ MARATHON SER 9499832
*US COMMERCE WEATHR 9494253
*WEATHER BUREAU 9494253
*N CENTRAL AIRLINES 9494400
*NORTH CNTL AIRLNES 9494400
*NORTH CNTRL AIRLNS 9494405
*DEPT OF AERONAUTCS 9494500
*KENT DEPT ARNTCS 9494500
*NORTHRN AIR SERV 9495000
*EMERY AIR FREIGHT 9495100
*FRED HARVEY RESTRN 9495130
*F HARVEY ARPRT RST 9495130
*THE GOLDEN EAGLE 9495505
*LAKE CENTRAL ARLNS 9495800
*LAKE CENTRL AIRLNS 9495800
*LAKE CENTRAL ARLNS 9495802
*UNITED AIR LINES 9495970
*NORTH STATES AVATN¤9496240
5501*FRED HARVEY MOTEL 9495500
*F HARVEY AIRPRT IN 9495500
6453 WILLIAM VENNEMAN 4 9493915
157 RESIDENCE 61 BUSINESS

44TH SW 49508

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1967

```
2811 GERRIT BAKER          4 9490490
2822 THELMA I HUBBARD      5 9491364
2824 R F SMITH              9491556
2826 GUS DE VRIES           9491657
2829*CASCADE CHRISTN CH     9491360
    *REV R GAYLORD          9491360
2834 HENRY R DE VRIES       9491559
2839*CASCADE TWP OFC       -9490523
2840*THORNS APPL TV&REC     9490220
2844*THORNAPPLE HARDWRE     9490940
2896 M FRANCES HEFFRON      9491374
2899 CLARE L SNYDER         9491655
2902 KATHRYN HARRIS         9491682
2904 VERN E KINGSLAND       9491957
2914 FRED E BONENKO         9491658
2915 JAMES M CARR          5 9492395
2926 FREDK W KELLEY         9491656
2929 CLAUS PAHL            4 9493078
2930 WILLARD CRUMBACK      4 9493981
2950 J W FLETCHER           9491569
2962 RUSSELL L YOUNG        9491433
2965 MARVIN MINGERINK      6 9490131
2975 WALTER K SCHMIDT       9491386
2984 VICTOR LUMLEY          9491385
2986 LLOYD R WINSLOW        9491326
3007 ADRIAN H VERSPOOR      9492782
3010 HARRY H T SHENG       5 9491347
3021*EWALD STEEL CO        -9496300
    *UNITED WIRE CO        ¤9496300
3024 JACOB J VISSER        5 9491958
3032                    NP
3044 EVART C HINELINE       9491376
3056 JACK R LYONS           9491464
3082 J E COPE               9491467
3148 ROBERT JANDERNOA       9491595
3150 W V GRIFFITH          6 9490472
3161 WM H BENEDICT JR      4 9491471
3191 NORM R CREAMER        6 9494126
     THOMAS CRAMER         ¤9496276

     ..................      49508
3275 GREGORY L FREY        6 9493445
3312 NORMAN D DEWEERD      5 9492742
3421 A VAN DER WEIDE       5 9493012
3521 GLADYS KENT            9491337
     WALTER C PALM          9491337
3637 ARTHUR MARTINEZ        9491758
3706 JACK MEYERING          9493557
4224 LEO M VENNEMAN        4 9493811
4359                    NP
4410 PAT KELLEY           ¤9496789
4849 DONALD P BOTTING      MY88730
4909 BERT VANDERLAAN        6988337
5090 R L VANDER MEULEN6    6988101
     R L VANDERMEULEN 4    6988101
5106 CHARLES R SHIELS 5    6988138
5111 DONALD L RUNDHAUG     MY88356
5138 EDWARD N DEVREE       MY88227
5225 LARRY P LINK          6 6986177
5312 C V E RICHARDSON       6986128
5434 CLARENCE COOKE        MY88387
5584 RICHD B FRIEDRICH     MY88607
5610 R F PAFFHAUSEN        MY88305
5805 NORMAN SWAINSTON      MY88664
     142 RESIDENCE    9 BUSINESS
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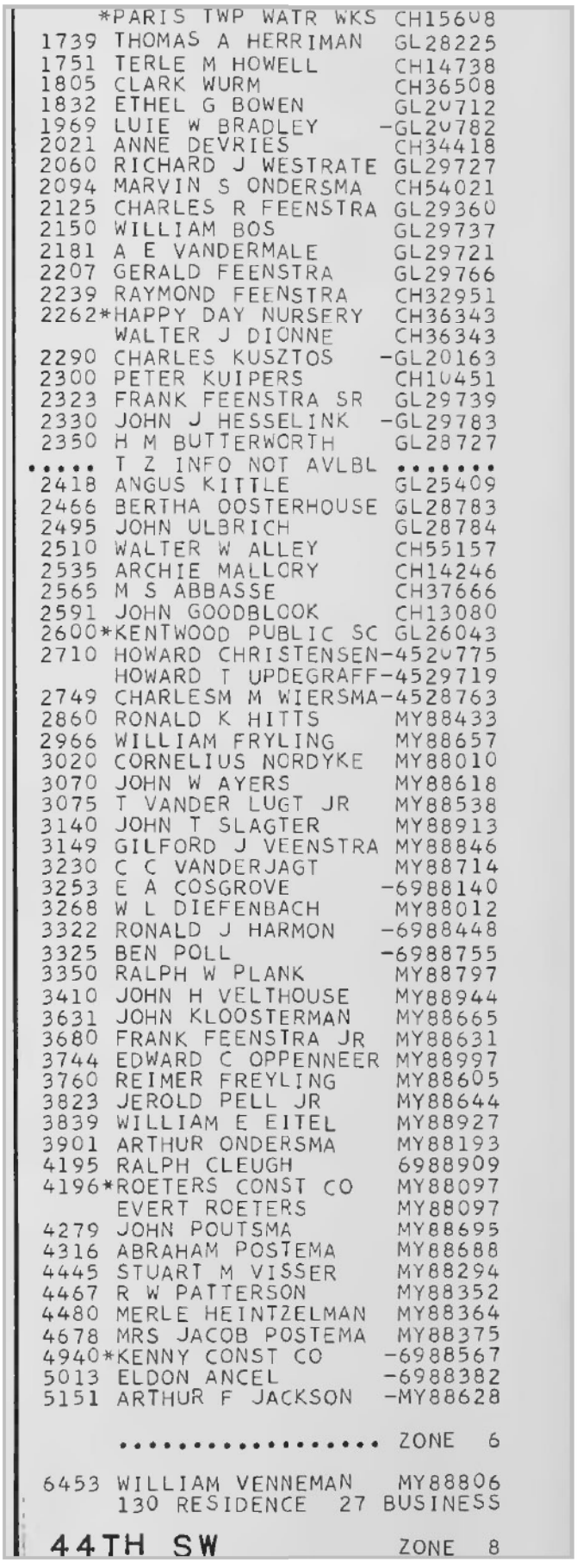
Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1962



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     *PARIS TWP WATR WKS CH15608
 1739 THOMAS A HERRIMAN  GL28225
 1751 TERLE M HOWELL     CH14738
 1805 CLARK WURM         CH36508
 1832 ETHEL G BOWEN      GL20712
 1969 LUIE W BRADLEY    -GL20782
 2021 ANNE DEVRIES       CH34418
 2060 RICHARD J WESTRATE GL29727
 2094 MARVIN S ONDERSMA  CH54021
 2125 CHARLES R FEENSTRA GL29360
 2150 WILLIAM BOS        GL29737
 2181 A E VANDERMALE     GL29721
 2207 GERALD FEENSTRA    GL29766
 2239 RAYMOND FEENSTRA   CH32951
 2262*HAPPY DAY NURSERY  CH36343
      WALTER J DIONNE    CH36343
 2290 CHARLES KUSZTOS   -GL20163
 2300 PETER KUIPERS      CH10451
 2323 FRANK FEENSTRA SR  GL29739
 2330 JOHN J HESSELINK  -GL29783
 2350 H M BUTTERWORTH    GL28727
..... T Z INFO NOT AVLBL .......
 2418 ANGUS KITTLE       GL25409
 2466 BERTHA OOSTERHOUSE GL28783
 2495 JOHN ULBRICH       GL28784
 2510 WALTER W ALLEY     CH55157
 2535 ARCHIE MALLORY     CH14246
 2565 M S ABBASSE        CH37666
 2591 JOHN GOODBLOOK     CH13080
 2600*KENTWOOD PUBLIC SC GL26043
 2710 HOWARD CHRISTENSEN-4520775
      HOWARD T UPDEGRAFF-4529719
 2749 CHARLESM M WIERSMA-4528763
 2860 RONALD K HITTS     MY88433
 2966 WILLIAM FRYLING    MY88657
 3020 CORNELIUS NORDYKE  MY88010
 3070 JOHN W AYERS       MY88618
 3075 T VANDER LUGT JR   MY88538
 3140 JOHN T SLAGTER     MY88913
 3149 GILFORD J VEENSTRA MY88846
 3230 C C VANDERJAGT     MY88714
 3253 E A COSGROVE      -6988140
 3268 W L DIEFENBACH     MY88012
 3322 RONALD J HARMON   -6988448
 3325 BEN POLL          -6988755
 3350 RALPH W PLANK      MY88797
 3410 JOHN H VELTHOUSE   MY88944
 3631 JOHN KLOOSTERMAN   MY88665
 3680 FRANK FEENSTRA JR  MY88631
 3744 EDWARD C OPPENNEER MY88997
 3760 REIMER FREYLING    MY88605
 3823 JEROLD PELL JR     MY88644
 3839 WILLIAM E EITEL    MY88927
 3901 ARTHUR ONDERSMA    MY88193
 4195 RALPH CLEUGH        6988909
 4196*ROETERS CONST CO   MY88097
      EVERT ROETERS      MY88097
 4279 JOHN POUTSMA       MY88695
 4316 ABRAHAM POSTEMA    MY88688
 4445 STUART M VISSER    MY88294
 4467 R W PATTERSON      MY88352
 4480 MERLE HEINTZELMAN  MY88364
 4678 MRS JACOB POSTEMA  MY88375
 4940*KENNY CONST CO    -6988567
 5013 ELDON ANCEL       -6988382
 5151 ARTHUR F JACKSON  -MY88628

      ..................ZONE  6

 6453 WILLIAM VENNEMAN   MY88806
      130 RESIDENCE  27 BUSINESS

 44TH SW                 ZONE  8
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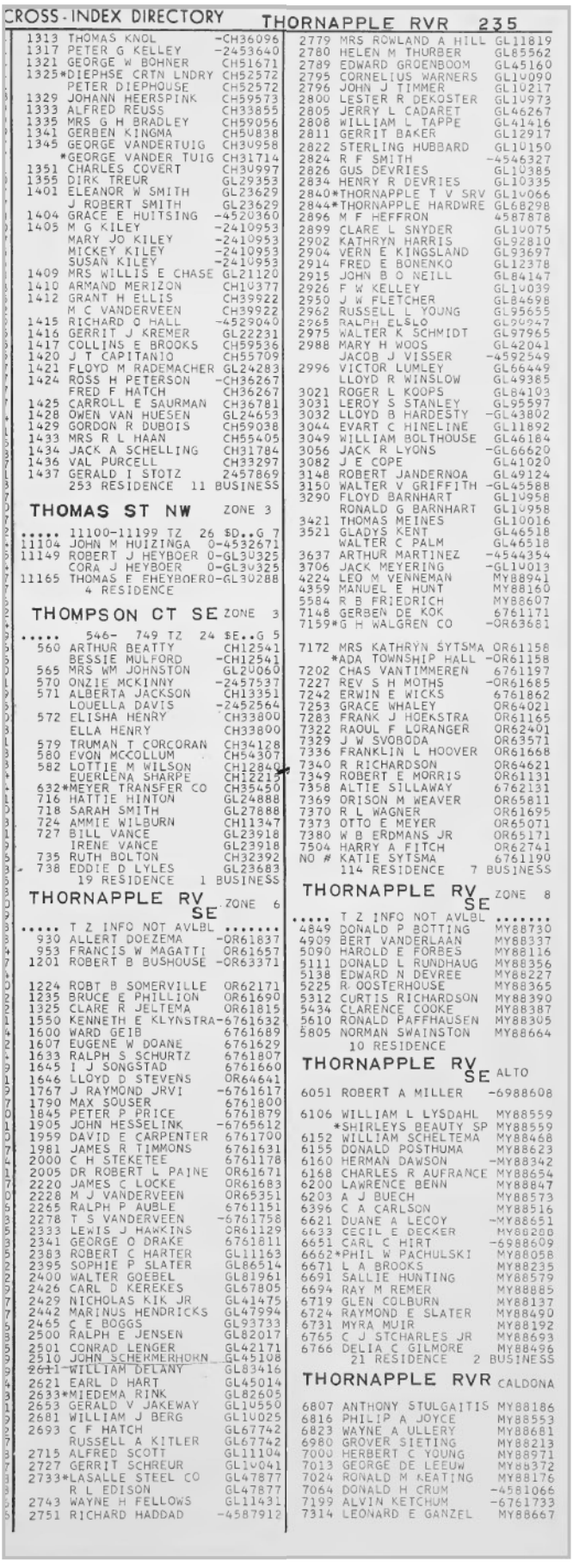
Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1962



CROSS-INDEX DIRECTORY THORNAPPLE RVR 235

1313 THOMAS KNOL -CH36096
1317 PETER G KELLEY -2453640
1321 GEORGE W BOHNER CH51671
1325*DIEPHSE CRTN LNDRY CH52572
PETER DIEPHOUSE CH52572
1329 JOHANN HEERSPINK CH59573
1333 ALFRED REUSS CH33855
1335 MRS G H BRADLEY CH59056
1341 GERBEN KINGMA CH5U838
1345 GEORGE VANDERTUIG CH3U958
*GEORGE VANDER TUIG CH31714
1351 CHARLES COVERT CH3U997
1355 DIRK TREUR GL29353
1401 ELEANOR W SMITH GL23629
J ROBERT SMITH GL23629
1404 GRACE E HUITSING -4520360
1405 M G KILEY -2410953
MARY JO KILEY -2410953
MICKEY KILEY -2410953
SUSAN KILEY -2410953
1409 MRS WILLIS E CHASE GL21120
1410 ARMAND MERIZON CH1U377
1412 GRANT H ELLIS CH39922
M C VANDERVEEN CH39922
1415 RICHARD O HALL -4529040
1416 GERRIT J KREMER GL22231
1417 COLLINS E BROOKS CH59536
1420 J T CAPITANIO CH55709
1421 FLOYD M RADEMACHER GL24283
1424 ROSS H PETERSON -CH36267
FRED F HATCH CH36267
1425 CARROLL E SAURMAN CH36781
1428 OWEN VAN HUESEN GL24653
1429 GORDON R DUBOIS CH59038
1433 MRS R L HAAN CH55405
1434 JACK A SCHELLING CH31784
1436 VAL PURCELL CH33297
1437 GERALD I STOTZ 2457869
253 RESIDENCE 11 BUSINESS

THOMAS ST NW ZONE 3

..... 11100-11199 TZ 26 $D..G 7
11104 JOHN M HUIZINGA 0-4532671
11149 ROBERT J HEYBOER 0-GL3U325
CORA J HEYBOER 0-GL3U325
11165 THOMAS E EHEYBOERO-GL3U288
4 RESIDENCE

THOMPSON CT SE ZONE 3

..... 546- 749 TZ 24 $E..G 5
560 ARTHUR BEATTY CH12541
BESSIE MULFORD -CH12541
565 MRS WM JOHNSTON GL2U060
570 ONZIE MCKINNY -2457537
571 ALBERTA JACKSON CH13351
LOUELLA DAVIS -2452564
572 ELISHA HENRY CH33800
ELLA HENRY CH33800
579 TRUMAN T CORCORAN CH34128
580 EVON MCCOLLUM CH54307
582 LOTTIE M WILSON CH12849
EUERLENA SHARPE CH12215
632*MEYER TRANSFER CO CH35450
716 HATTIE HINTON GL24888
718 SARAH SMITH GL27888
724 AMMIE WILBURN CH11347
727 BILL VANCE GL23918
IRENE VANCE GL23918
735 RUTH BOLTON CH32392
738 EDDIE D LYLES GL23683
19 RESIDENCE 1 BUSINESS

THORNAPPLE RV SE ZONE 6

..... T Z INFO NOT AVLBL .....
930 ALLERT DOEZEMA -OR61837
953 FRANCIS W MAGATTI OR61657
1201 ROBERT B BUSHOUSE -OR63371

1224 ROBT B SOMERVILLE OR62171
1235 BRUCE E PHILLION OR61690
1325 CLARE R JELTEMA OR61815
1550 KENNETH E KLYNSTRA-6761632
1600 WARD GEIB 6761689
1607 EUGENE W DOANE 6761629
1633 RALPH S SCHURTZ 6761807
1645 I J SONGSTAD 6761660
1646 LLOYD D STEVENS OR64641
1767 J RAYMOND JRVI -6761617
1790 MAX SOUSER 6761800
1845 PETER P PRICE 6761879
1905 JOHN HESSELINK -6765612
1959 DAVID E CARPENTER 6761700
1981 JAMES R TIMMONS 6761631
2000 C H STEKETEE 6761178
2005 DR ROBERT L PAINE OR61671
2220 JAMES C LOCKE OR61683
2228 M J VANDERVEEN OR65351
2265 RALPH P AUBLE 6761151
2278 T S VANDERVEEN -6761758
2333 LEWIS J HAWKINS OR61129
2341 GEORGE O DRAKE 6761811
2383 ROBERT C HARTER GL11163
2395 SOPHIE P SLATER GL86514
2400 WALTER GOEBEL GL81961
2426 CARL D KEREKES GL67805
2429 NICHOLAS KIK JR GL41475
2442 MARINUS HENDRICKS GL47994
2465 C E BOGGS GL93733
2500 RALPH E JENSEN GL82017
2501 CONRAD LENGER GL42171
2510 JOHN SCHERMERHORN GL45108
2611 WILLIAM DELANY GL83416
2621 EARL D HART GL45014
2633*MIEDEMA RINK GL82605
2653 GERALD V JAKEWAY GL1U550
2681 WILLIAM J BERG GL1U025
2693 C F HATCH GL67742
RUSSELL A KITLER GL67742
2715 ALFRED SCOTT GL11104
2727 GERRIT SCHREUR GL1U041
2733*LASALLE STEEL CO GL47877
R L EDISON GL47877
2743 WAYNE H FELLOWS GL11431
2751 RICHARD HADDAD -4587912

2779 MRS ROWLAND A HILL GL11819
2780 HELEN M THURBER GL85562
2789 EDWARD GROENBOOM GL45160
2795 CORNELIUS WARNERS GL1U090
2796 JOHN J TIMMER GL1U217
2800 LESTER R DEKOSTER GL1U973
2805 JERRY L CADARET GL46267
2808 WILLIAM L TAPPE GL41416
2811 GERRIT BAKER GL12917
2822 STERLING HUBBARD GL1U150
2824 R F SMITH -4546327
2826 GUS DEVRIES GL1U385
2834 HENRY R DEVRIES GL10335
2840*THORNAPPLE T V SRV GL1U066
2844*THORNAPPLE HARDWRE GL68298
2896 M F HEFFRON 4587878
2899 CLARE L SNYDER GL1U075
2902 KATHRYN HARRIS GL92810
2904 VERN E KINGSLAND GL93697
2914 FRED E BONENKO GL12378
2915 JOHN B O NEILL GL84147
2926 F W KELLEY GL1U039
2950 J W FLETCHER GL84698
2962 RUSSELL L YOUNG GL95655
2965 RALPH ELSLO GL90947
2975 WALTER K SCHMIDT GL97965
2988 MARY H WOOS GL42041
JACOB J VISSER -4592549
2996 VICTOR LUMLEY GL66449
LLOYD R WINSLOW GL49385
3021 ROGER L KOOPS GL84103
3031 LEROY S STANLEY GL95597
3032 LLOYD B HARDESTY -GL43802
3044 EVART C HINELINE GL11892
3049 WILLIAM BOLTHOUSE GL46184
3056 JACK R LYONS -GL66620
3082 J E COPE GL41020
3148 ROBERT J ANDERNOA GL49124
3150 WALTER V GRIFFITH -GL45588
3290 FLOYD BARNHART GL1U958
RONALD G BARNHART GL1U958
3421 THOMAS MEINES GL10016
3521 GLADYS KENT GL46518
WALTER C PALM GL46518
3637 ARTHUR MARTINEZ -4544354
3706 JACK MEYERING -GL1U013
4224 LEO M VENNEMAN MY88941
4359 MANUEL E HUNT MY88160
5584 R B FRIEDRICH MY88607
7148 GERBEN DE KOK 6761171
7159*G H WALGREN CO -OR63681

7172 MRS KATHRYN SYTSMA OR61158
*ADA TOWNSHIP HALL -OR61158
7202 CHAS VANTIMMEREN 6761197
7227 REV S H MOTHS -OR61685
7242 ERWIN E WICKS 6761862
7253 GRACE WHALEY OR64021
7283 FRANK J HOEKSTRA OR61165
7322 RAOUL F LORANGER OR62401
7329 J W SVOBODA OR63571
7336 FRANKLIN L HOOVER OR61668
7340 R RICHARDSON OR64621
7349 ROBERT E MORRIS OR61131
7358 ALTIE SILLAWAY 6762131
7369 ORISON M WEAVER OR65811
7370 R L WAGNER OR61695
7373 OTTO E MEYER OR65071
7380 W B ERDMANS JR OR65171
7504 HARRY A FITCH OR62741
NO # KATIE SYTSMA 6761190
114 RESIDENCE 7 BUSINESS

THORNAPPLE RV SE ZONE 8

..... T Z INFO NOT AVLBL .....
4849 DONALD P BOTTING MY88730
4909 BERT VANDERLAAN MY88337
5090 HAROLD E FORBES MY88116
5111 DONALD L RUNDHAUG MY88356
5138 EDWARD N DEVREE MY88227
5225 R OOSTERHOUSE MY88365
5312 CURTIS RICHARDSON MY88390
5434 CLARENCE COOKE MY88387
5610 RONALD PAFFHAUSEN MY88305
5805 NORMAN SWAINSTON MY88664
10 RESIDENCE

THORNAPPLE RV SE ALTO

6051 ROBERT A MILLER -6988608

6106 WILLIAM L LYSDAHL MY88559
*SHIRLEYS BEAUTY SP MY88559
6152 WILLIAM SCHELTEMA MY88468
6155 DONALD POSTHUMA MY88623
6160 HERMAN DAWSON -MY88342
6168 CHARLES R AUFRANCE MY88654
6200 LAWRENCE BENN MY88847
6203 A J BUECH MY88573
6396 C A CARLSON MY88516
6621 DUANE A LECOY -MY88651
6633 CECIL E DECKER MY88288
6651 CARL C HIRT -6988609
6662*PHIL W PACHULSKI MY88058
6671 L A BROOKS MY88235
6691 SALLIE HUNTING MY88579
6694 RAY M REMER MY88885
6719 GLEN COLBURN MY88137
6724 RAYMOND E SLATER MY88490
6731 MYRA MUIR MY88192
6765 C J STCHARLES JR MY88693
6766 DELIA C GILMORE MY88496
21 RESIDENCE 2 BUSINESS

THORNAPPLE RVR CALDONA

6807 ANTHONY STULGAITIS MY88186
6816 PHILIP A JOYCE MY88553
6823 WAYNE A ULLERY MY88681
6980 GROVER SIETING MY88213
7000 HERBERT C YOUNG MY88971
7013 GEORGE DE LEEUW MY88372
7024 RONALD M KEATING MY88176
7064 DONALD H CRUM -4581066
7199 ALVIN KETCHUM -6761733
7314 LEONARD E GANZEL MY88667

Target Street	Cross Street	Source
✓	-	Bresser's Cross-Index Directory

44TH ST SE 1959

2674	S CHRISTENSEN	CH1-2540
	*CHRISTENSEN TPFF	CH1-2540
44 th	SE	ZONE 6
2966	WM FRYLING	MY8-8657
3020	C NORDYKE	MY8-8010
3070	JOHN W AYERS	MY8-8618
3075	WAYNE VERSTRATE	MY8-859B
3140	JOHN T SLAGTER	MY8-8913
3149	G VEENSTRA	MY8-8846
3165	G J VEENSTRA	MY8-8B46
3230	C C VAN DER JAGT	MY8-8714
	WM H HUTCHINSON	MYB-8423
3253	BEN POLL	MY8-8696
3268	WM L DIEFENBACH	MY8-8012
3350	RALPH PLANK	MY8-8797
3410	J H VELTHOUSE	MY8-8944
3631	JOHN KLOSSTERMAN	MY8-8665
3680	FRANK FEENSTRA	MY8-8001
3760	DOROTHY STEVENS	MY8-8605
	REIMER FREYLING	MY8-8605
3B23	JEROLD PELL	MY8-8644
3839	RALPH ONDERSMA	MY8-8935
3901	A ONDERSMA	MY8-8193
4195	RALPH CLEUGH	MY8-8682
4196	EVERT ROETERS	MY8-8769
4279	JOHN POUTSMA	MY8-8695
4316	A POSTEMA	MY8-B68B
4445	ERNEST AUSTHOF	MY8-8395
4467	R W PATTERSON	MY8-8352
4480	MERLE HEINTZELMAN	MY8-8364
467B	JACOB POSTEMA	MY8-8375
4940	JEAN WEATHERBY	MY8-8632
5013	JACK M LOWE	MYB-8308
5045	ROBT D JOHNSON	MY8-8856
5101	MATT WHITE	MY8-8302
	MATT WHIRE	MY8-8302
5117	THOS GOORHOUSE	MY8-8157
5151	H A VAN KOEVERING	MY8-8386
5225	CHESTER W NEAL	MY8-8609
5251	JAS A MUSTE	MY8-8564
5305	JACK GREEN	MY8-8140
5311	WARNER J BRUINS	MY8-BB98
5331	JACK THORNTON	MY8-8498
6453	WM VENNEMAN	MY8-8806
	139 RES 23 BUS	
44 th	SW	ZONE 8

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

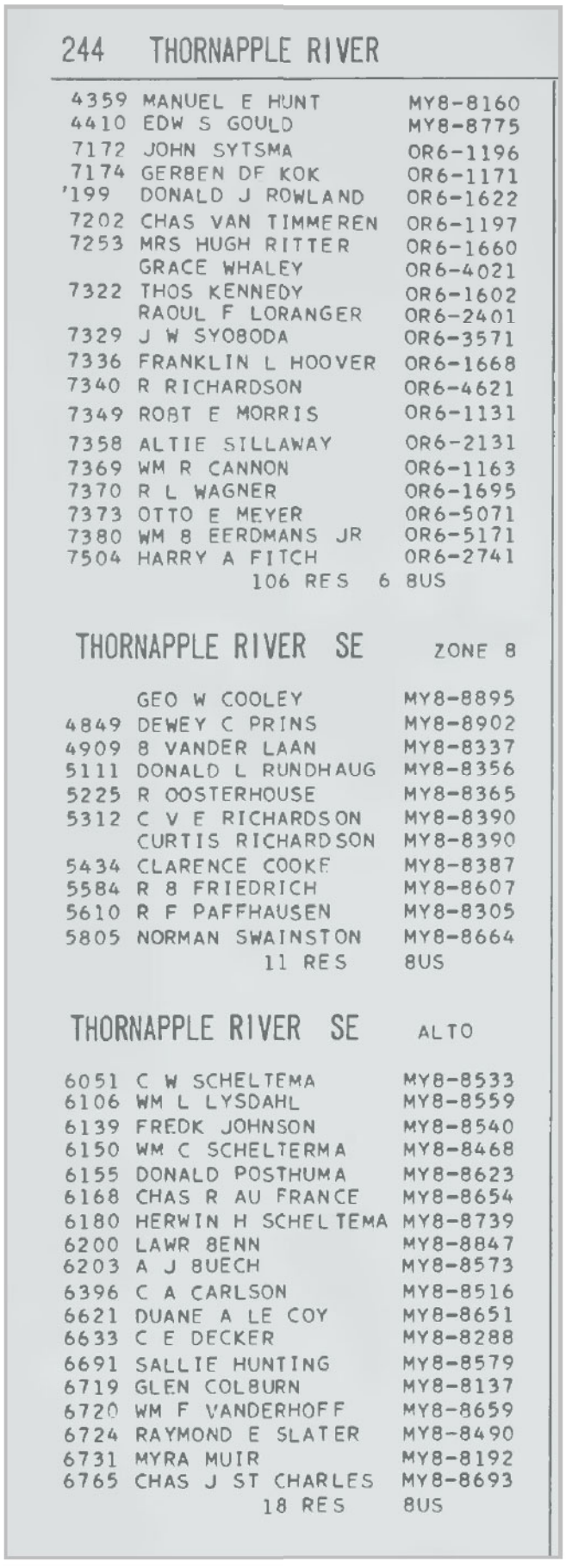
THORNAPPLE RIVER DR SE 1959

THORNAPPLE RIVER SE ZONE 6

	KATIE SYTSMA	OR6-1190
	MARIE SOMERVILLE	OR6-2171
	*POWER HSE	OR6-4411
1201	ROBT B BUSHOUSE	OR6-3371
1235	MARTIN J FRAHM	OR6-2821
1550	H EDMUND MATTHEWS	OR6-2931
1600	WARD GEIB	OR6-5616
1607	FREDICK M DOANE	OR6-4258
1633	RALPH S SCHURTZ	OR6-4684
1645	I J SONSTAD	OR6-4252
1768	W C AFTON JR	OR6-4682
1772	KENNETH NELLIST	OR6-4686
	GROVER FASE	OR6-4687
	GEO F AMOS JR	OR6-4851
1790	MAX SOUSER	OR6-4688
1845	PETER P PRICE	OR6-4111
1905	RICHARD HUSTY	OR6-4853
1959	DAVID E CARPENTER	OR6-4856
1981	J R TIMMONS	OR6-1631
2000	C H STEKETEE	OR6-1178
2005	ROBT L PAINE DDS	OR6-4854
2220	JAS C LOCKE	OR6-1683
2333	LEWIS J HAWKINS	OR6-1129
2341	GEO O ORAKE	OR6-5392
2383	ROBT C HARTER	GL1-0770
2395	R J SLATER	GL8-6514
2400	WALTER GOEBEL	GL8-1961
2426	C D KEREKES	GL6-7805
2429	NICHOLAS KIK JR	GL4-1475
2442	MARINUS HENDRICKS	GL1-0704
2465	C E BOGGS	GL9-3733
	*HERFF JONES CO	GL9-3733
	*MICH SCHL PICTURE	GL6-6920
2500	RALPH E JENSEN	GL8-2017
2501	CONRAD LENGER	GL4-2171
2510	WM A FLETCHER	GL1-2028
2611	WM DE LANY	GL8-3416
2633	R MIEDEMA	GL8-2605
2653	RUSSELL W CASE	GL4-6649
2670	FREDK K WYKES	GL1-0777
2681	WM J BERG	GL1-0025
2693	RUSSELL A KITLER	GL6-7742
	C F HATCH	GL6-7742
2715	ALFREO SCOTT	GL1-0644
2727	GERRIT SCHREUR	GL1-0041
2733	*LA SALLE STEEL CO	GL4-7877
	R L EDISON	GL4-7877
2743	WAYNE H FELLOWS	GL1-0653
2751	LYLE E DYKHUIZEN	GL1-0711
2779	MRS A R HILL	GL1-3048
2780	HELEN M THURBER	GL8-5562
2789	EOW GROENBOOM	GL4-5160
2795	CORNELIUS WARNERS	GL1-0090
2796	JOHN J TIMMER	GL1-0639
2800	LESTER R DE KOSTER	GL1-0973
2808	JACK C OSTROM	GL4-1140
2811	G BAKER	GL1-2917
2821	ROGER I WYKES JR	GL8-5570
2822	STERLING HUBBARD	GL1-0150
2824	FRED OE YOUNG	GL1-0883
2826	*THORNAPPLE RV SERV	GL1-0066
	GUS OE VRIES	GL1-0603
2827	FRANK DE VRIES	GL6-9815
2834	LLOYD A OEAN	GL1-3057
2896	CHAS H COMPTON	GL9-4858
2899	CLARE L SNYDER	GL1-0075
2902	KATHRYN HARRIS	GL9-2810
2904	VERN E KINGSLAND	GL9-3697
2914	FRED F BONENKO	GL1-0086
2915	R O NEILL	GL6-6779
2926	FREOK W KELLEY	GL1-0039
2950	J W FLETCHER	GL8-4698
2962	RUSSELL L YOUNG	GL9-5655
2965	RALPH ELSLO	GL9-0947
2975	WALTER K SCHMIDT	GL9-7965
2984	VICTOR LUMLEY	GL6-6449
2986	LLOYO R WINSLO	GL4-9385
2988	SOL WANROOY	GL1-0279
	MARY H WOOD	GL4-2041
2990	LLOYO B HARDESTY	GL4-3802
2995	ROGER L KOOPS	GL8-4103
3065	LARRY L BROWN	GL6-7738
3070	JACK R LYONS	GL6-6620
3082	ROBT F COPF	GL4-1020
3100	ROBT JANOERNOA	GL4-9124
3110	PETER C BOOGERT	GL1-0664
3120	*W V GRIFFITH CONTR	GL9-7839
3421	THOS MEINES	GL1-2050
3521	WALTER C PALM	GL1-0720
	G KENT	GL1-0720
3796	JACK MEYERING	GL1-3098
4075	GEO R VENNEMAN	MY8-8549

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1959



244 THORNAPPLE RIVER

4359	MANUEL E HUNT	MY8-8160
4410	EDW S GOULD	MY8-8775
7172	JOHN SYTSMA	OR6-1196
7174	GERBEN DE KOK	OR6-1171
'199	DONALD J ROWLAND	OR6-1622
7202	CHAS VAN TIMMEREN	OR6-1197
7253	MRS HUGH RITTER	OR6-1660
	GRACE WHALEY	OR6-4021
7322	THOS KENNEDY	OR6-1602
	RAOUL F LORANGER	OR6-2401
7329	J W SYOBODA	OR6-3571
7336	FRANKLIN L HOOVER	OR6-1668
7340	R RICHARDSON	OR6-4621
7349	ROBT E MORRIS	OR6-1131
7358	ALTIE SILLAWAY	OR6-2131
7369	WM R CANNON	OR6-1163
7370	R L WAGNER	OR6-1695
7373	OTTO E MEYER	OR6-5071
7380	WM B EERDMANS JR	OR6-5171
7504	HARRY A FITCH	OR6-2741
	106 RES 6 BUS	

THORNAPPLE RIVER SE ZONE 8

	GEO W COOLEY	MY8-8895
4849	DEWEY C PRINS	MY8-8902
4909	B VANDER LAAN	MY8-8337
5111	DONALD L RUNDHAUG	MY8-8356
5225	R OOSTERHOUSE	MY8-8365
5312	C V E RICHARDSON	MY8-8390
	CURTIS RICHARDSON	MY8-8390
5434	CLARENCE COOKE	MY8-8387
5584	R B FRIEDRICH	MY8-8607
5610	R F PAFFHAUSEN	MY8-8305
5805	NORMAN SWAINSTON	MY8-8664
	11 RES	BUS

THORNAPPLE RIVER SE ALTO

6051	C W SCHELTEMA	MY8-8533
6106	WM L LYSDAHL	MY8-8559
6139	FREDK JOHNSON	MY8-8540
6150	WM C SCHELTERMA	MY8-8468
6155	DONALD POSTHUMA	MY8-8623
6168	CHAS R AU FRANCE	MY8-8654
6180	HERWIN H SCHELTEMA	MY8-8739
6200	LAWR BENN	MY8-8847
6203	A J BUECH	MY8-8573
6396	C A CARLSON	MY8-8516
6621	DUANE A LE COY	MY8-8651
6633	C E DECKER	MY8-8288
6691	SALLIE HUNTING	MY8-8579
6719	GLEN COLBURN	MY8-8137
6720	WM F VANDERHOFF	MY8-8659
6724	RAYMOND E SLATER	MY8-8490
6731	MYRA MUIR	MY8-8192
6765	CHAS J ST CHARLES	MY8-8693
	18 RES	BUS

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.4

April 19, 2022

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.4

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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

Search Results:

P.O.# 225360.01
Project: A1 and A28

Coordinates:

Latitude:	42.886718 42° 53' 12" North
Longitude:	-85.512406 -85° 30' 45" West
UTM Zone:	Zone 16 North
UTM X Meters:	621474.88
UTM Y Meters:	4749308.47
Elevation:	777.52' above sea level

Maps Provided:

2019
2017
2016
2014
1978, 1981, 1982
1972
1967
1914, 1918

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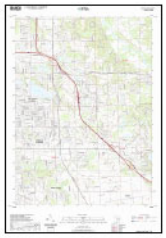
Topo Sheet Key

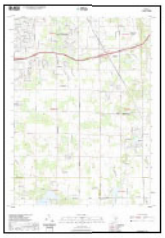
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

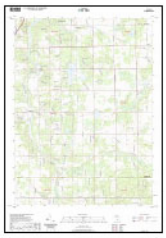


Grand Rapids East
2019
7.5-minute, 24000

Cascade
2019
7.5-minute, 24000

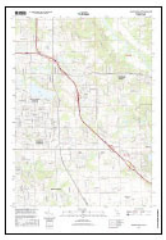


Caledonia
2019
7.5-minute, 24000



Alto
2019
7.5-minute, 24000

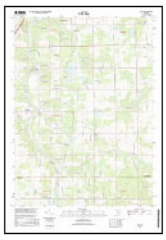
2017 Source Sheets



Grand Rapids East
2017
7.5-minute, 24000

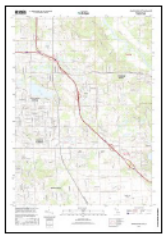
Cascade
2017
7.5-minute, 24000

Caledonia
2017
7.5-minute, 24000



Alto
2017
7.5-minute, 24000

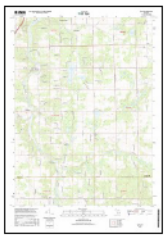
2016 Source Sheets



Grand Rapids East
2016
7.5-minute, 24000

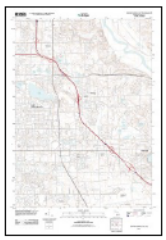
Cascade
2016
7.5-minute, 24000

Caledonia
2016
7.5-minute, 24000



Alto
2016
7.5-minute, 24000

2014 Source Sheets



Grand Rapids East
2014
7.5-minute, 24000

Cascade
2014
7.5-minute, 24000

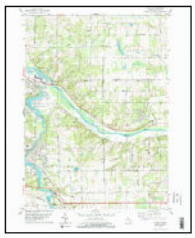
Caledonia
2014
7.5-minute, 24000

Alto
2014
7.5-minute, 24000

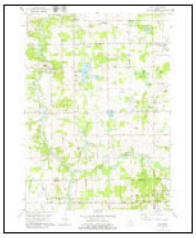
Topo Sheet Key

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

1978, 1981, 1982 Source Sheets

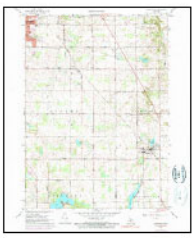


Cascade
1978
7.5-minute, 24000
Aerial Photo Revised 1974



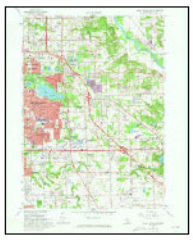
Alto
1978
7.5-minute, 24000
Aerial Photo Revised 1974

Grand Rapids East
1981
7.5-minute, 24000
Aerial Photo Revised 1980

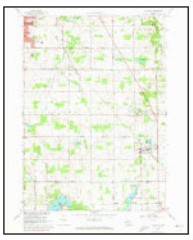


Caledonia
1982
7.5-minute, 24000
Aerial Photo Revised 1972

1972 Source Sheets

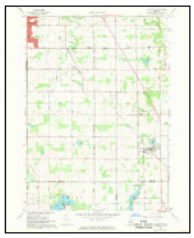


Grand Rapids East
1972
7.5-minute, 24000
Aerial Photo Revised 1972

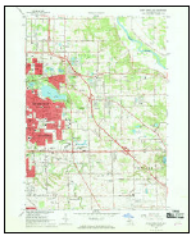


Caledonia
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1967 Source Sheets



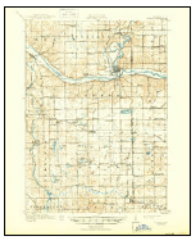
Caledonia
1967
7.5-minute, 24000
Aerial Photo Revised 1965



Grand Rapids East
1967
7.5-minute, 24000
Aerial Photo Revised 1965

1914, 1918 Source Sheets

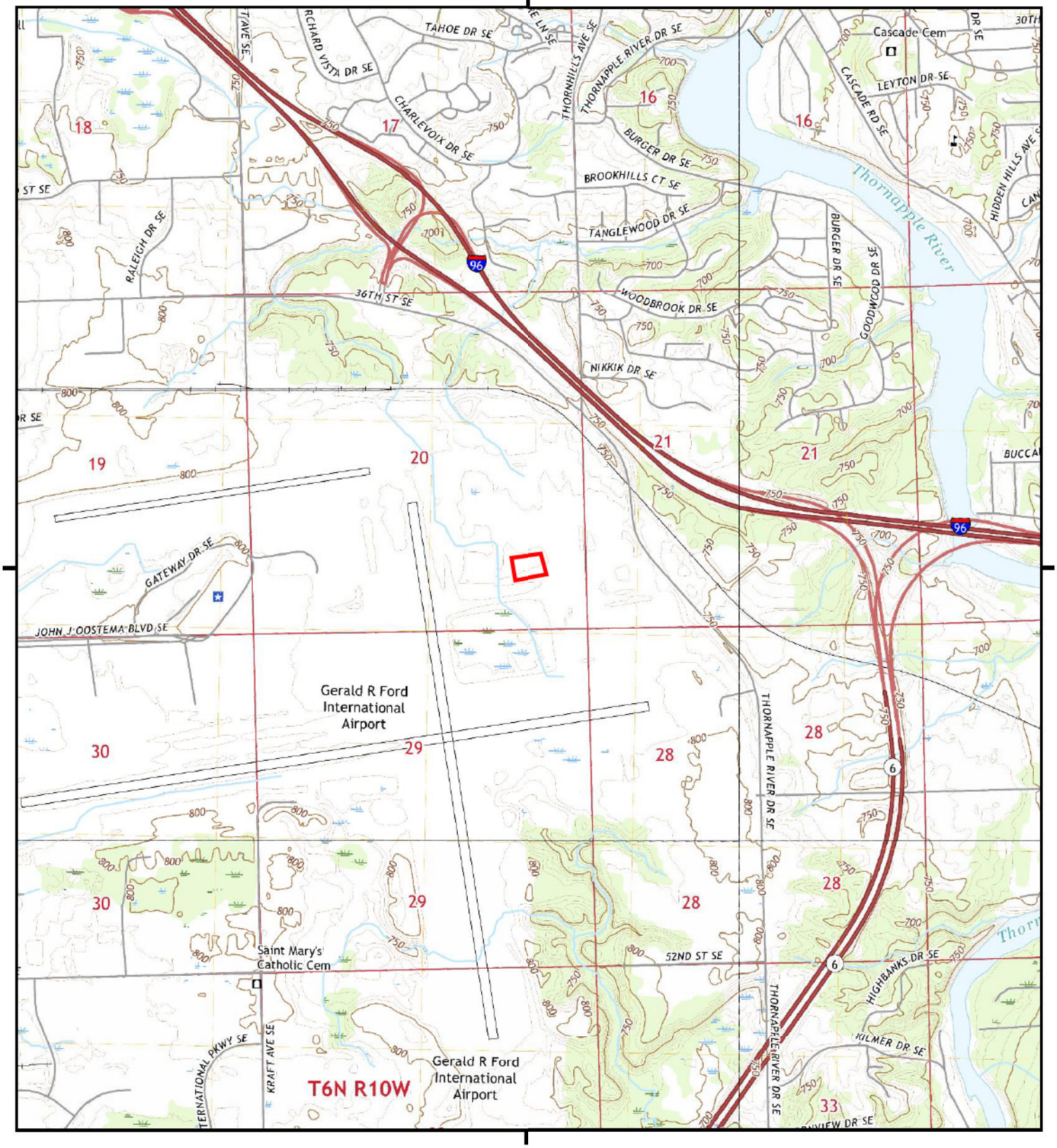
Grand Rapids
1914
15-minute, 62500



Lowell
1918
15-minute, 62500

Historical Topo Map

2019



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

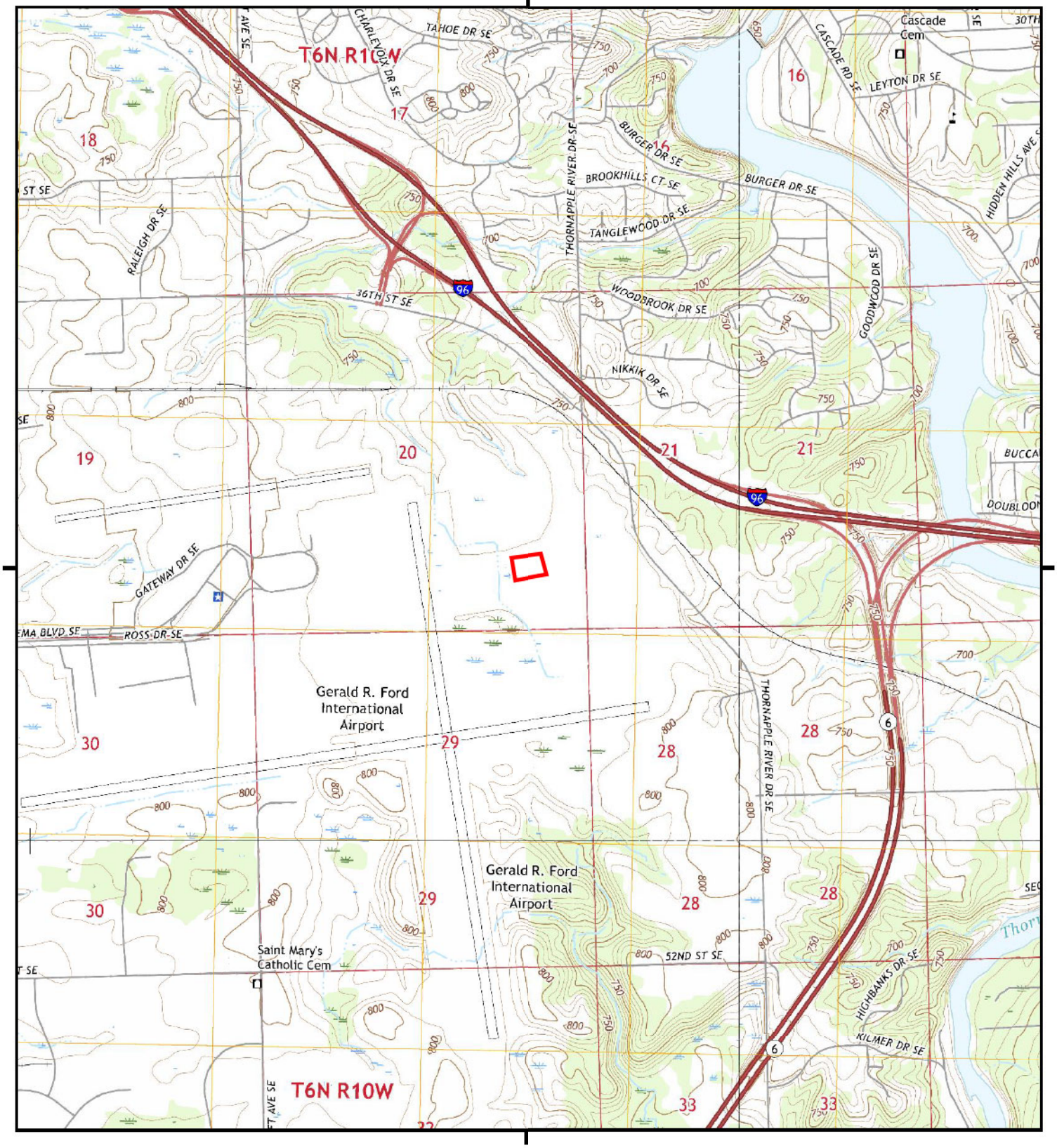
TP, Grand Rapids East, 2019, 7.5-minute
NE, Cascade, 2019, 7.5-minute
SE, Alto, 2019, 7.5-minute
SW, Caledonia, 2019, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

2017



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

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NW N NE
W E
SW S SE

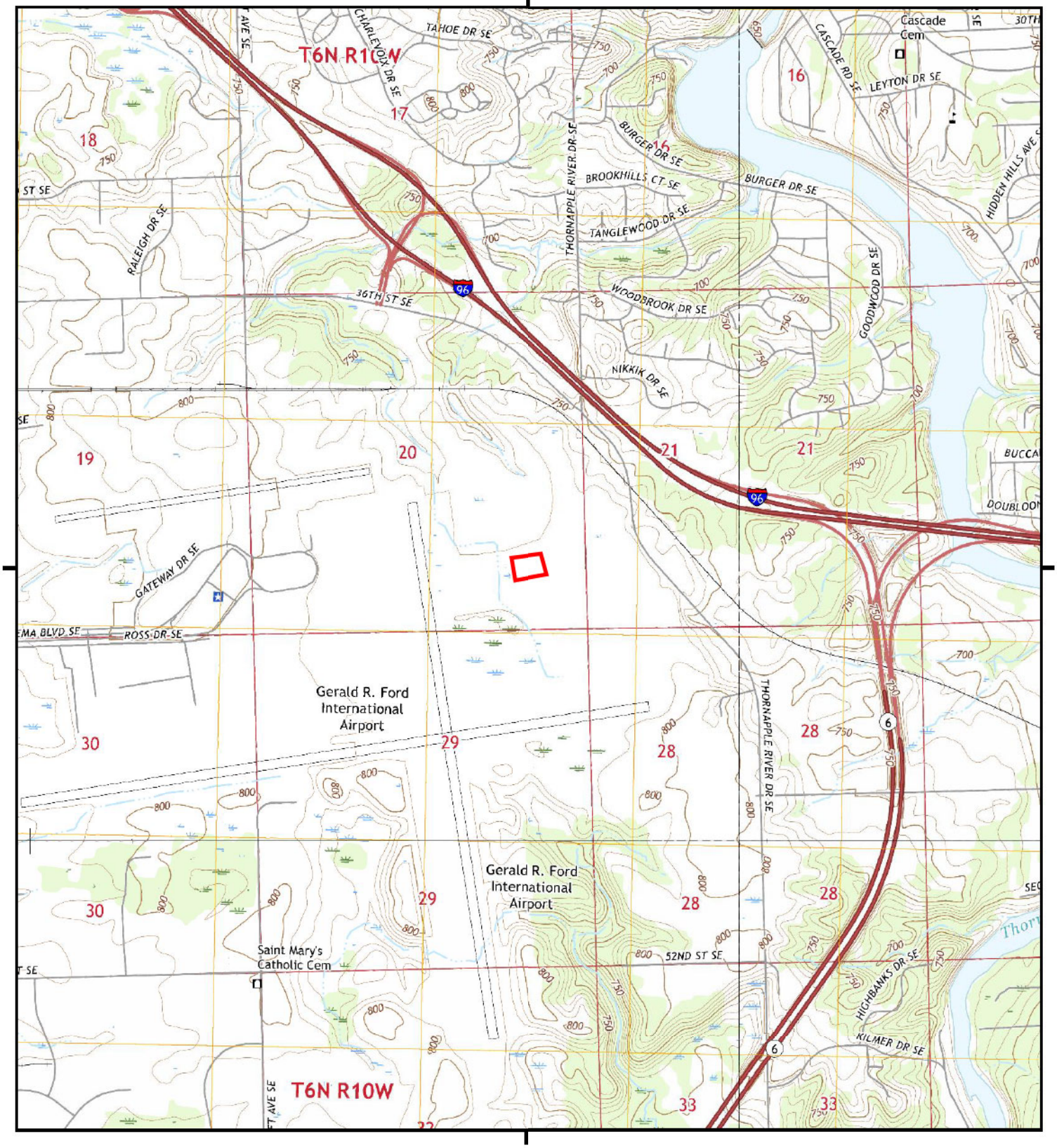
TP, Grand Rapids East, 2017, 7.5-minute
NE, Cascade, 2017, 7.5-minute
SE, Alto, 2017, 7.5-minute
SW, Caledonia, 2017, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

2016



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

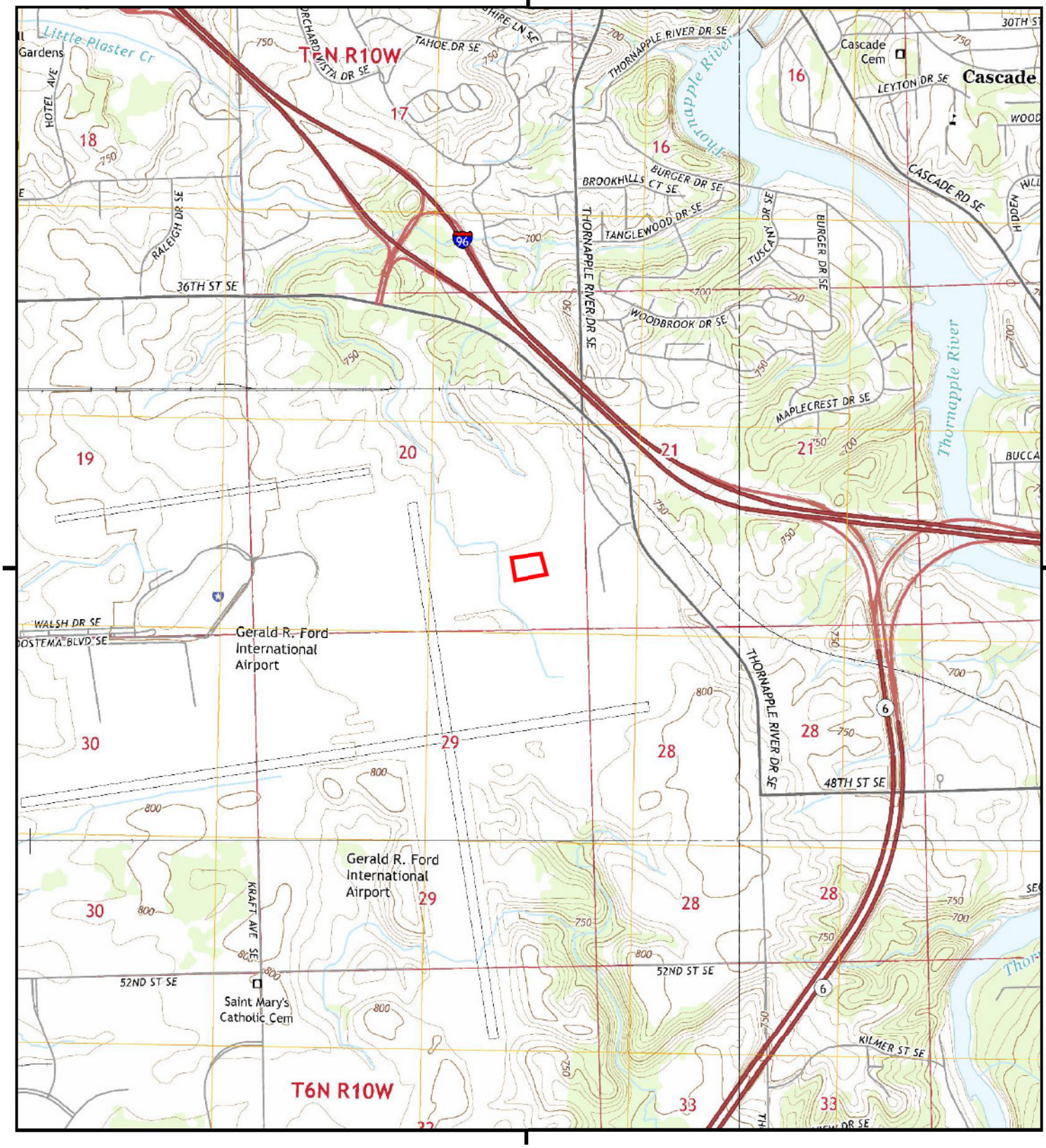
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Grand Rapids East, 2016, 7.5-minute
NE, Cascade, 2016, 7.5-minute
SE, Alto, 2016, 7.5-minute
SW, Caledonia, 2016, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

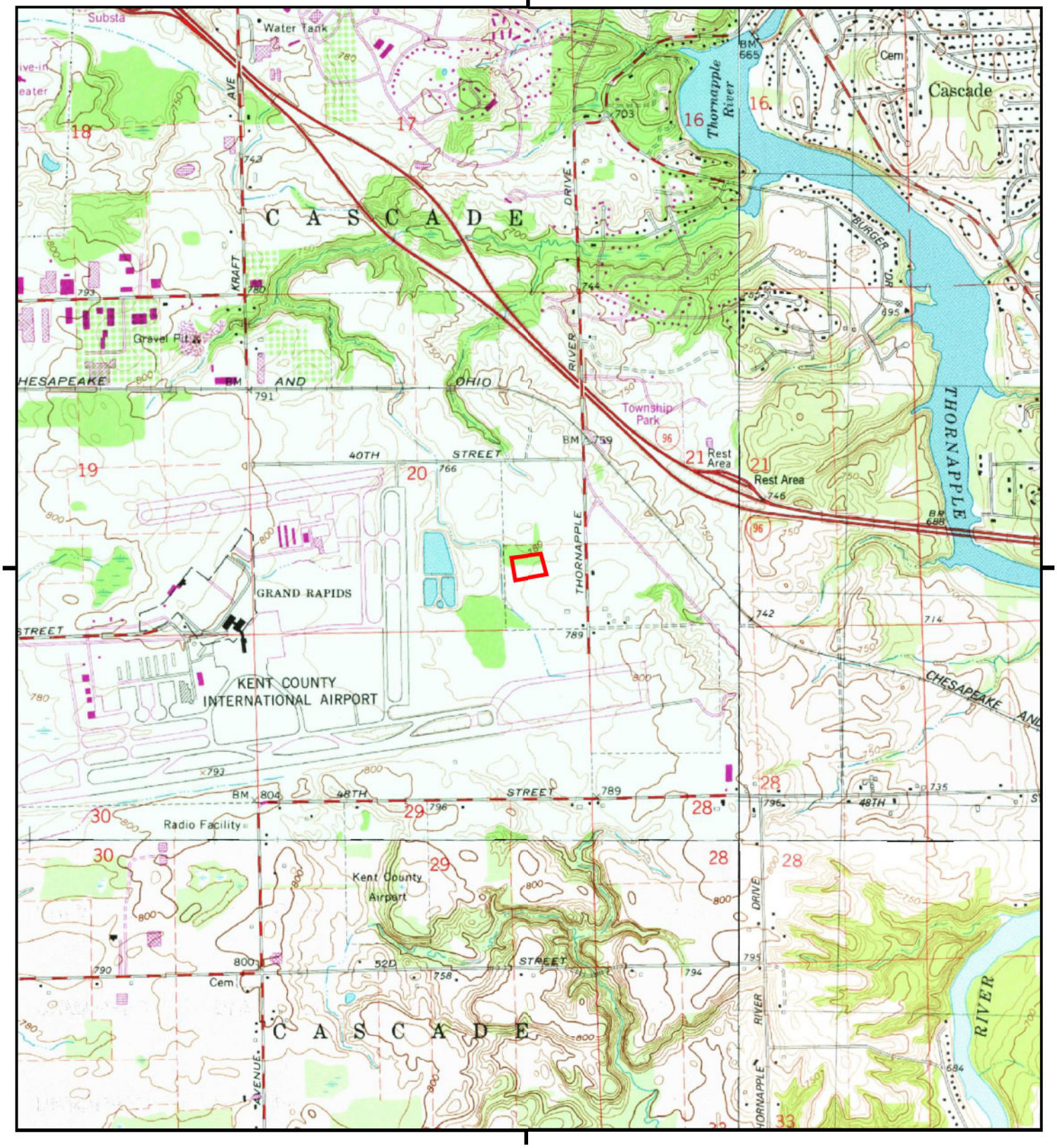
TP, Grand Rapids East, 2014, 7.5-minute
NE, Cascade, 2014, 7.5-minute
SE, Alto, 2014, 7.5-minute
SW, Caledonia, 2014, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

1978, 1981, 1982



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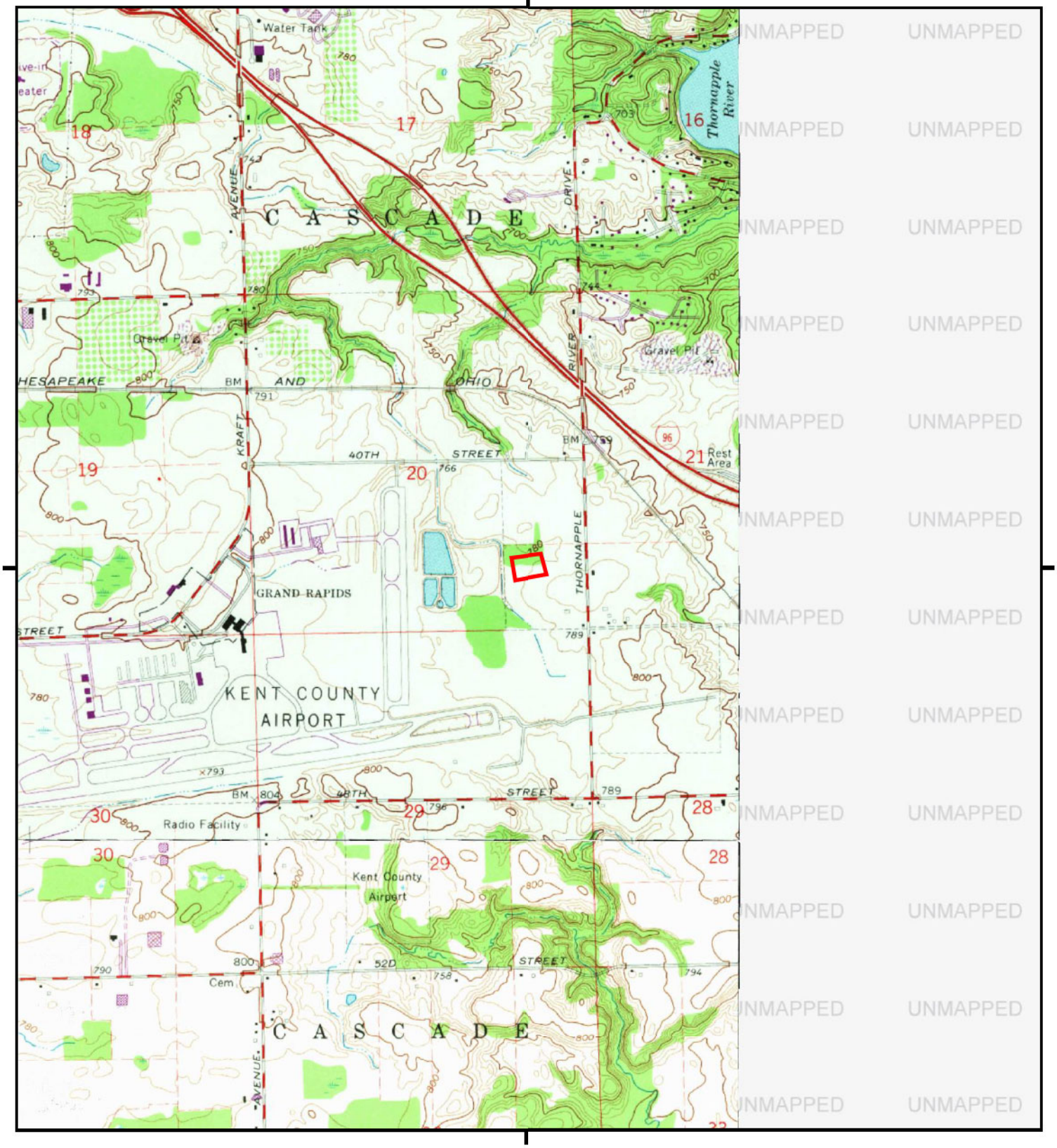
NW N NE
W E
SW S SE

TP, Grand Rapids East, 1981, 7.5-minute
NE, Cascade, 1978, 7.5-minute
SE, Alto, 1978, 7.5-minute
SW, Caledonia, 1982, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

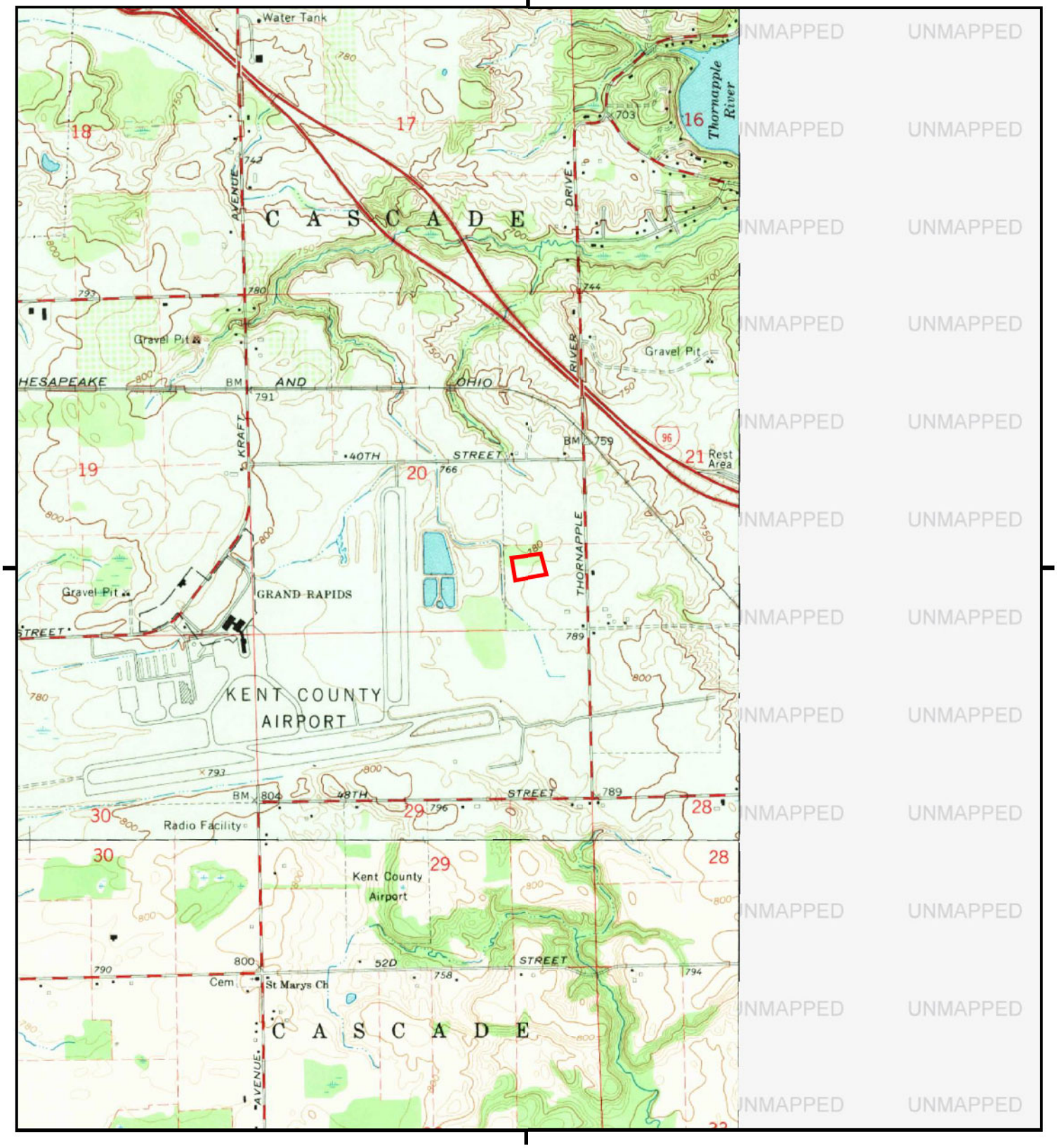
TP, Grand Rapids East, 1972, 7.5-minute
SW, Caledonia, 1972, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

1967



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

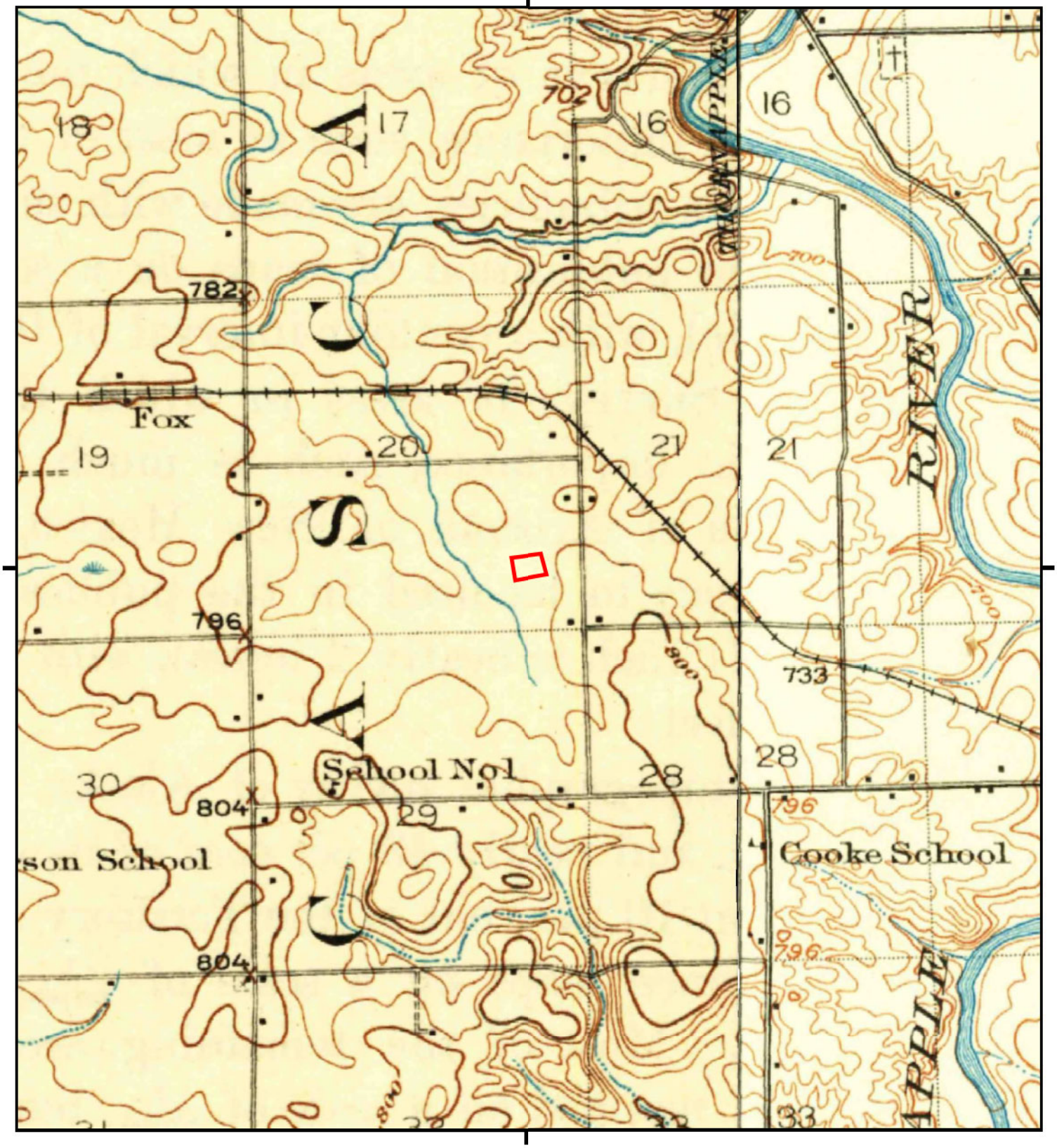
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Grand Rapids East, 1967, 7.5-minute
SW, Caledonia, 1967, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Grand Rapids, 1914, 15-minute
E, Lowell, 1918, 15-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

APPENDIX F

Interview Documentation

BLDI

Phase I Environmental Site Assessment

User Questionnaire for Phase I ESA Additional Inquiries

The User Questionnaire is to be completed by the User.

The ASTM Standard E1527-21 defines the User as *"the party seeking to use Practice E1527 to complete an environmental site assessment (ESA) of the subject property."* Examples of Users include, but are not limited to, a potential purchaser or tenant of a property, or a lender. Typically the current owner is not the User of the Phase I ESA.

Information Provided to: BLDI, Inc. Main Office | 150 Fountain Street NE | Grand Rapids, MI 49503

User - Please Complete this Portion (including contact information and appropriate reliance parties)

Date:	4/14/2022
User Name:	US DOT - Federal Aviation Administration
Full Address:	2300 East Devon Ave, Ste 450, Des Plaines, Illinois 60018
Contact:	Steven Myers
Phone:	847-294-7591
Subject Property Name:	Proposed GRR ATCT Sites A1 and A28
Subject Property Address:	N/A
Reliance Parties:	N/A

As stated in ASTM E1527-21, Appendix X3:

"To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. 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."

Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any YES or UNKNOWN response must be provided in the "Comments" column. Add pages as necessary.

Note: U/NR indicates "Unknown" or "No Response", and "N/A" indicates not applicable.

---

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state, or local law?

- ☐ **Yes**
- ☐ **No**
- ☑ **U/NR**

Comments: The FAA has not performed a title search on this property.

2) Did a search of land title records (or judicial records where appropriate) identify any AULs, 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 against the subject property under federal, tribal, state, or local law?

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments: The property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.

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

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments:

4) Does the purchase price being paid for this subject property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

- ☐ **Yes**
- ☐ **No**
- ☑ **U/NR**

Comments: The FAA would receive the property as a $0 lease as per airport improvement grant assurances.

5) Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA has no knowledge of any past occurrences of chemical use or releases on the subject property.

5a) Do you know the past uses of the subject property?

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments: The subject property has been utilized as agricultural land or as undeveloped airport property since the 1960's.

5b) Do you know of specific chemicals that are present or once were present at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA does not have reason to believe that chemicals were ever present or stored on the property.

5c) Do you know of spills or other chemical releases that have taken place at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA is unaware of any past or present chemical releases or spills that have occurred on the subject property.

5d) Do you know of any environmental cleanups that have taken place at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA is unaware of any environmental cleanups that have occurred on the subject property.

5e) Do you know the current use of the subject property?

- [x] **Yes**
- [ ] **No**
- [ ] **U/NR**

Comments: The subject property is currently undeveloped airport property.

5f) Can you confirm that the address listed for the subject property on this User Questionnaire is the entire (and, as applicable, only) legal address for the subject property?

- [ ] **Yes**
- [x] **No**
- [ ] **U/NR**

Comments: The specific property is not developed and does not currently have an address.

6) Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?

- [ ] **Yes**
- [x] **No**
- [ ] **U/NR**

Comments: The FAA has no knowledge to indicate the presence or likely presence of release on the property.

Electronic Signature:

By typing your name in the Signature box below, you are signing this document electronically.
You agree your electronic signature is the legal equivalent of your manual signature on this document.

Signature:	Steven Myers
Print Name:	Steven Myers
Representing:	US DOT - FAA
Title:	Environmental Protection Specialist
Date:	4/14/2022

Ashley Plocharczyk

From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Tuesday, April 26, 2022 9:19 AM
To: Ashley Plocharczyk
Cc: Rachel Kane
Subject: RE: FOIA Request

Follow Up Flag: Follow up
Flag Status: Flagged

Ashley -

Cascade Township does not have any records regarding the Fire Department training site on Airport property, but I cannot speak for other fire departments.

Take Care,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 4:49 PM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Thank you very much for your assistance!

To your knowledge, are there any records of the fire department or other fire departments currently/previously utilize the airport as a training facility?
(i.e. AFFF foam dispersal onto the airport property)

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 4:36 PM
To: Ashley Plocharczyk <ashleyp@bldi.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Thank you for the clarification Ashley. Attached is the response to your FOIA request. It is technically a denial as we do not have any relevant information. Being a vacant parcel, there are no water/sewer or building department records. There have been no Cascade Township Fire Department responses to this site (the airport has it's own fire department) and assessing records are only for the airport as a whole. If you have any questions, or need additional information, please contact me accordingly.

Take Care,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 3:16 PM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Yes, that is confirmed. We are only requesting information per the attached marked out parcels and not per the entire airport parcel.

Thank you,

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 3:06 PM
To: Ashley Plocharczyk <ashleyp@bldi.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Good Afternoon Ashley -

Thanks for reaching out. Can you please confirm that you are only looking for documentation specific to the sites called out on the map, and not the entire 41-19-20-300-020 parcel (which is essentially the entire airport)

Thanks,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 9:37 AM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: FOIA Request

Good morning,

BLDI is currently conducting a Phase I Environmental Site Assessment for two portions of the property identified as 5500 44th Street SE, Cascade Charter Township, Kent County, MI 49512; PID: 41-19-20-300-020. Aerial snippets of these proposed parcels are attached.

We would like to request the following information from the appropriate departments:
Assessing Records (any other pertinent historical information)
Fire Department Records (fire damage and/or hazardous material related situations)
Water and Sewer Connection/Installation Dates

AND Only if Available:
Building Department Records (building dates/utility connections/floor drain discharge points)

Please feel free to contact me with any questions or if we need to contact someone else for this information.

Thank you for your time and assistance!

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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STATE OF MICHIGAN

DEPARTMENT OF NATURAL RESOURCES

WATER RESOURCES COMMISSION

In the matter of: Kent County Department of Aeronautics
5500 44th Street, S.E.
Grand Rapids, Michigan 49508

DETERMINATION OF PERMIT EXEMPTION

Determination No. GWE - 0298

IT IS THE EXPRESS FINDING OF FACT OF THE MICHIGAN WATER RESOURCES COMMISSION THAT:

1. Pursuant to rule 2206 (R 323.2206) of the Part 22 Rules of the General Rules of the Water Resources Commission: Groundwater Quality, discharges into the groundwaters of the state are regulated by permits issued in accordance with sections 5, 7(1), and 8(b) of the Michigan Water Resources Commission Act (1929 PA 245, as amended).

2. Rule 2209 (R 323.2209) of the Groundwater Quality Rules list activities which are exempt from permit, hydrogeological reporting, and groundwater monitoring requirements.

3. On August 8, 1990, Gerald A. Lovell submitted a request for a Commission determination that a facility located in Section 20 of Cascade Township, Kent County, does not require a discharge permit.

4. The request is for the land application of up to 3,414,000 gallons of diluted sludge from four sanitary sewage lagoons.

5. Pursuant to Rule 2209(2), "Other activities may be exempted from a permit on a case-by-case basis, if the criteria that the Commission deems necessary are met."

6. Gerald A. Lovell, an authorized representative of Kent County Department of Aeronautics, has certified, in writing, that the discharge meets the requirements of the rule.

7. Staff have reviewed this request and recommend that the Commission determine that Rule 2209(2) applies and the exemption granted because this is a one time discharge for the purpose of permanently closing a wastewater treatment system.

AFTER CONSIDERATION OF THIS MATTER, THE MICHIGAN WATER RESOURCES COMMISSION DETERMINES THAT:

1. The land application of up to 3,414,000 gallons of sludge, with a concentration of no greater than 8% to 10% solids to liquid applied at a rate no greater than 20 dry tons per acre that originates from the Kent County International Airport sewage lagoons located in Section 20 of Cascade Township, Kent County, which is described in the exemption request dated August 8, 1990, and supplemented August 16, 1990 and August 22, 1990, meets the requirements of Rule 2209(2).

2. The land application of sludge not diluted down to an 8% to 10% solids to liquid ratio, the land application of sludge in excess of 20 dry tons per acre, and the land application of diluted sludge in excess of 3,414,000 gallons are expressly prohibited.

3. The discharge of any other water or wastewater to the waters of the state without a discharge permit is expressly prohibited.

4. Wastewater effluent shall not be applied within 150 feet of property lines, 150 feet from surface waters, 150 feet from private drinking water wells and 800 feet from water wells used for drinking water.

5. Prior to discharge the applicant must receive approval of plans for land applying the diluted sludge from the Waste Characterization Unit of the Waste Management Division, Department of Natural Resources.

6. Vegetation approved by the Waste Management Division shall be maintained on the application sites during periods of discharge.

7. The applicant shall submit to the Waste Management Division information detailing any proposed change in this discharge which may have an impact upon this Determination of Permit Exemption at least 30 days prior to the proposed implementation of that change. Any such change in the discharge will require a new determination by the Commission.

8. Provided all the conditions set forth herein are met, no discharge permit under Act 245, P.A. 1929, as amended, is required for this discharge.

9. Authorization to discharge pursuant to this exemption shall expire October 1, 1991.

The Commission retains jurisdiction to modify this action or to enter any further actions as the facts and circumstances may warrant.

THIS DETERMINATION ADOPTED this 18th day of October 1990, by the Water Resources Commission, to be signed on behalf of the Commission by the Assistant Executive Secretary.

Alan J. Howard
Assistant Executive Secretary
Water Resources Commission

Rich S. ✓
Dick M. ✓

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
MARLENE J. FLUHARTY
GORDON E. GUYER
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STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
P.O. BOX 30028
LANSING, MI 48909

DAVID F. HALES, Director

November 9, 1990

Mr. Gerald A. Lovell
Kent County Department of Aeronautics
5500 44th Street, S.E.
Grand Rapids, Michigan 49508

Dear Mr. Lovell:

Enclosed is Determination of Permit Exemption, GWE - 0298, issued by the Michigan Water Resources Commission at its October 18, 1990 meeting. The Determination provides for the land application by Kent County Department of Aeronautics of up to 3,414,000 gallons of diluted sludge from four sanitary sewage lagoons.

Please review carefully the conditions of the Determination. In particular, please notice that any change in the discharge will require a new Determination by the Commission.

Questions concerning this Determination can be directed to the Groundwater Section, Waste Management Division (telephone 517-373-8148), or the Waste Management Division Grand Rapids District Office, (telephone 616-456-5071).

Sincerely,

Alan J. Howard
Assistant Executive Secretary
Water Resources Commission

Enclosure

cc: Kent County Health Department
Cascade Township Supervisor
Grand Rapids District Office

BLDI Environmental Engineering | *Working for you*

Phase I Environmental Site Assessment

For the Subject Property Located at:

Site B58 (5500 44th Street SE)
Cascade Charter Township, Michigan 49512

Presented to:

The United States Department of Transportation - Federal Aviation Administration
- Engineering Services | Great Lakes Regional Office
2300 Devon Avenue
Des Plaines, IL 60018

May 17, 2022

BLDI Project No.: 225361.01

Main Office: 150 Fountain Street NE, Grand Rapids, MI 49503 | 616.459.3737
Greater Detroit Area Office: 39111 Six Mile Road, Livonia, MI 48152 | 734.838.0008

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APPENDICES

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COMMON ACRONYMS

ACM	Asbestos Containing Material
AST	Aboveground Storage Tank
ASTM	American Society for Testing and Materials
AUL	Activity and Use Limitation
BER	Business Environmental Risk
BGS	Below Ground Surface
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CFR	Code of Federal Regulations
CREC	Controlled Recognized Environmental Condition
EGLE	Michigan Department of Environment, Great Lakes, and Energy
EPA	Environmental Protection Agency
HREC	Historical Recognized Environmental Condition
LARA	Michigan Department of Licensing and Regulatory Affairs
LUST	Leaking Underground Storage Tank
MCL	Maximum Contaminant Level
MSDS	Material Safety Data Sheet
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
PNA	Polynuclear Aromatic Hydrocarbon
RCRA	Resource Conservation and Recovery Act
REC	Recognized Environmental Condition
SPCC	Spill Prevention, Control, and Countermeasure
TSCA	Toxic Substances Control Act
USGS	United States Geological Survey
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WDS	Waste Data System

UNITS OF MEASURE

Sq ft or ft^2	Square Feet
mg/kg	Milligrams per Kilogram
mg/l	Milligrams per Liter
ug/l	Micrograms per Liter
ppb	Parts per Billion
ppm	Parts per Million

SELECT DEFINITIONS

"Recognized Environmental Condition" (REC) is defined by ASTM Standard E 1527-21 as: The presence of hazardous substances or petroleum products in, on, or at the subject property due to a release to the environment; (2) the likely presence of hazardous substances or petroleum products in, on, or at the subject property due to a release or likely release to the environment; or(3) the presence of hazardous substances or petroleum products in, on, or at the subject property under conditions that pose a material threat of a future release to the environment.

"Controlled Recognized Environmental Condition" (CREC) is defined by ASTM Standard E 1527-21 as: A recognized environmental condition affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities with hazardous substances or petroleum products allowed to remain in place subject to implementation of required controls (for example, activity and use limitations or other property use limitations).

"Historical Recognized Environmental Condition" (HREC) is defined by ASTM Standard E 1527-21 as: A previous release of hazardous substances or petroleum products affecting the subject property that has been addressed to the satisfaction of the applicable regulatory authority or authorities and meeting unrestricted use criteria established by the applicable regulatory authority or authorities without subjecting the subject property to any controls (for example, activity and use limitations or other property use limitations). A historical recognized environmental condition is not a recognized environmental condition.

"Business Environmental Risk" (BER) is defined by ASTM Standard E 1527-21 as: A risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of commercial real estate, not necessarily related to those environmental issues required to be investigated in this practice. Consideration of BER issues may involve addressing one or more non-scope considerations.

"Subject Property" is defined by ASTM Standard E1527-21 as: The property that is the subject of the environmental site assessment described in this practice.

"De Minimis Condition" is defined by ASTM Standard E1527-21 as: A condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. A condition determined to be a de minimis condition is not a recognized environmental condition nor a controlled recognized environmental condition.

1.0 EXECUTIVE SUMMARY

This Phase I Environmental Site Assessment (ESA) was performed to evaluate potential environmental issues and identify recognized environmental conditions (RECs) and/or business environmental risks (BERs) associated with the proposed new Airport Traffic Control Tower at Gerald R. Ford International Airport property located at Site B58 which is a portion of 5500 44th Street SE (parent parcel) in Cascade Charter Township, Kent County, Michigan (subject property). This report was completed in accordance with the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries (AAI) and guidance provided in the ASTM Standard Practice for Environmental Site Assessment: Phase I Environmental Site Assessment Process (ASTM E1527-21) and the U.S. Department of Transportation (US DOT) Federal Aviation Administration (FAA) National Policy Order 1050.19C.

Type of Condition	Issue Identified as Part of this Phase I ESA
De Minimis Condition	No
Significant Data Gap	No
Historical Recognized Environmental Condition (HREC)	No
Controlled Recognized Environmental Condition (CREC)	No
Business Environmental Risk (BER)	No
Recognized Environmental Condition (REC)	No
Additional Findings	Yes

Refer to Section 9.0 (Findings and Opinions) and Section 10.0 (Conclusions) for discussion of the conditions identified above. Discussion regarding any identified RECs, CRECs, and/or HRECs, as applicable, is provided in these sections.

2.0 INTRODUCTION

2.1 Purpose

This Phase I ESA was performed to identify RECs and BERs in connection with the subject property as referenced in the ASTM Standard E1527-21 for performing Phase I ESAs. In November 2021, a revised version of the ASTM standard, E1527-21, was published. This Phase I ESA conforms with the requirements of both ASTM E1527-13 and E1527-21.

The objective of this Phase I ESA was to conduct "all appropriate inquiries" into the prior ownership and use of the subject property for the purpose of identifying known or potential releases and threatened releases of hazardous substances and petroleum products on, at, in or to the subject property (RECs, CRECs, and/or HRECs), which enables a new purchaser to satisfy the due diligence qualification requirements for the innocent landowner, contiguous property owner or bona fide prospective purchaser defenses to liability under the federal Comprehensive Environmental Response, Compensation, and Liability Act ("CERCLA") as defined in 42 USC § 9601(35)(B), and under Part 201 of Michigan's Natural Resources and Environmental Protection

Act (NREPA) (MCL 324.20126 (1)(c) and 324.20126(3)(h)) and under Part 213 of Michigan's NREPA (MCL 324.21323a(1)(b)). The owner/operator may have due care/continuing obligations related to CERCLA and Part 201/213 liability protections.

2.2 Detailed Scope of Work

This report summarizes the findings of the Phase I ESA performed by BLDI. This work was performed by Ashley M. Plocharczyk and Rachel M. Kane in conjunction with, and under the supervision of, Sarah R. Jacobitz, EP. The results of this Phase I ESA are based on the scope of services outlined in the ASTM Standard Practice cited above and are consistent with the customary practice and standards of other qualified environmental professionals performing similar work in this area. In accordance with ASTM Standard E1527-21, the Phase I ESA consisted of the following four components:

- Records Review
- Site reconnaissance
- Interviews
- Evaluation and Preparation of Phase I ESA Report

Records Review included a review of federal, state, tribal, and local government records and historical sources to identify RECs and previous uses of the subject property and surrounding area to determine the likelihood that these past uses may have resulted in RECs on the subject property. The records review is summarized in Section 5.0 of this report.

The site reconnaissance included a visual and physical inspection of the subject property and limited visual observations of adjoining properties to identify RECs. No sampling or testing of any material was performed, unless otherwise noted. The site reconnaissance is summarized in Section 6.0 of this report.

Interviews were conducted with past owners, present owners, operators, and/or occupants, to the extent that they were identified, contacted, and responsive, to identify RECs. Select state and/or local agency officials were also interviewed. The objective of the interviews was to obtain information not otherwise available through other sources about current and historical property uses that may pose RECs. Information obtained during interviews is included in applicable sections of this report.

An evaluation of the findings and a formulation of opinions used to develop conclusions regarding the potential presence of RECs identified during the Phase I ESA are presented in Section 9.0 of this report. The conclusions identified based on the findings and opinions of the environmental professional are presented in Section 10.0. This report includes appropriate documentation to support the presented findings, opinions, and conclusions. The report includes those matters required in the report pursuant to various provisions of ASTM E 1527-21.

A consideration of "commonly known or reasonably ascertainable information" about the subject property was performed as part of the Phase I ESA as provided by the ASTM E 1527-21 standard. Non-scope tasks performed during this Phase I ESA were:

- Visual reconnaissance for asbestos-containing materials
- Assessment of the potential for the presence of radon
- Visual reconnaissance for the presence of lead-based paint
- Assessment of the potential for lead in drinking water
- Visual reconnaissance for potential wetlands
- Visual reconnaissance for microbial growth and moisture intrusion
- Likely presence of substances not defined as a hazardous substance unless or until such substances are classified as a Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous substance (i.e., per- and polyfluoroalkyl substances (PFAS/PFOA))

Refer to Section 12.0 of this Phase I ESA for discussion regarding these items.

2.3 Significant Assumptions

Significant assumptions made to complete this Phase I ESA include:

- Local groundwater flow follows topography, unless otherwise noted. Use of State groundwater mapping databases may be used where available to supplement groundwater flow assessment. Physical verification of the presence and/or direction of groundwater flow is beyond the scope of this Phase I ESA, and as such, was not performed.

- The information provided by the regulatory database provider (e.g., Environmental Database Reports (EDR)) is assumed to be an accurate and complete representative summary of the information contained in the referenced regulatory agency records, except when such information is obviously contradicted by other data.

- The information provided by any and all interviewees is assumed to be accurate and reliable.

- The opinions and conclusions presented in this report were based on the current configuration and use of the subject property, unless noted otherwise.

2.4 Limitations and Exceptions

During the performance of this Phase I ESA, no limiting conditions or exceptions which would be expected to materially affect the results of this Phase I ESA were encountered, unless otherwise expressly noted in this report.

2.5 Special Terms and Conditions

As is the case with any investigation of limited scope, site conditions may vary from those observed and witnessed on the date of the site reconnaissance/walk-through survey. The possibility of the discovery of the presence of hazardous substances that are not anticipated and/or were neither witnessed nor identified on the date of the site reconnaissance/walk-through survey cannot be completely eliminated. BLDI cannot offer any form of warranty and/or guarantee that the subject property does not contain hazardous substances and/or conditions per the results of performing this ESA.

No special contractual terms or conditions exist between US DOT - FAA - Engineering Services | Great Lakes Regional Office (the Client) and BLDI.

2.6 Reliance

The findings and conclusions of this Phase I ESA may be relied upon by the Client. Reliance upon this report by any other parties is unauthorized unless written permission is obtained from the Client and BLDI.

3.0 SITE DESCRIPTION

3.1 Location and Legal Description

The subject property is a portion of the property located at 5500 44th Street SE in Cascade Charter Township, Kent County, Michigan and is referred to as Site B58. The subject property consists of approximately 1.62-acres out of a total of an approximately 2,313.35-acre parcel (portion of parcel number: 41-19-20-300-020) located on the west side of Air Cargo Drive SE, south of Cassard Lane. Note that the subject property has not been denoted with a separate parcel number at the time this Phase I ESA was conducted. A Subject Property Location Map (Figure 1) and a Subject Property Layout Map (Figure 2) are presented in Appendix A. The legal description of the subject property is presented in Appendix B.

3.2 Subject Property and Vicinity General Characteristics

The subject property is located in an area of commercial land use.

3.3 Current and Historic Uses of the Subject Property

The subject property is currently a portion of the Gerald R. Ford International Airport and consists of vegetated land (i.e., maintained lawn) and not utilized for any specific purpose.

Please refer to Section 5.4 for information on the historical use of the subject property.

3.4 Description of Structures and Other Improvements on the Subject Property

3.4.1 Existing Structures

There are no structures currently present on the subject property.

Refer to Section 6.1 and Section 8.0 for further information regarding any limiting conditions encountered during the site reconnaissance.

Photographs of the subject property are presented in Appendix C.

3.4.2 Existing Roads

The subject property is located on the west side of Air Cargo Drive SE, south of Cassard Lane. Driveways access the subject property from a nearby building located south of the subject property, west of Air Cargo Drive SE.

3.4.3 Relevant Utilities and Municipal Services

BLDI identified the type and supplier of utilities provided to the subject property. These services are described in the following table:

Utility/Service	Connection Date	Comments/Historical Services
Heating Fuel	Not applicable	The subject property is not currently connected to natural gas for heating.*
Potable Water	Not applicable	The subject property is not currently connected to the municipal water supply and/or a private drinking water well.*
Sanitary Waste	Not applicable	The subject property is not currently connected to the municipal sanitary sewer system and/or an on-site septic system.*

* Utilities are available in the area of the subject property

Based on a review of historical data, there appears to have been no previous buildings requiring the use of utilities or municipal services on the subject property since at least 1938. There are no records of previously installed/utilized heating fuel, potable water, and/or sanitary waste utilized by and/or located on the subject property.

3.5 Current Uses of the Adjoining Properties

Direction from Subject Property	Description
North	Gerald R. Ford International Airport
East	Gerald R. Ford International Airport
South	United Postal Service

Direction from Subject Property	Description
West	Gerald R. Ford International Airport

A visual reconnaissance of these adjoining properties was performed at the time of the site reconnaissance. The adjoining properties were inspected to the extent possible to determine if their uses may have resulted in releases of hazardous substances/petroleum products that could affect the subject property. No staining, dumping, or other indications of significant environmental concern that could impact the subject property were observed on the adjoining properties during the visual reconnaissance. Please refer to Sections 5.2 and/or 5.3.1 for more information on any adjoining properties that may have the potential to impact the subject property. The adjoining properties are also identified on Figure 2 within Appendix A of this Phase I ESA.

4.0 USER PROVIDED INFORMATION

BLDI contacted the User to determine the status of potential environmental liens, activity and use limitations, specialized knowledge of environmental conditions, and commonly known or reasonably ascertainable information related to the subject property. The *User Questionnaire for Phase One Additional Inquiries* (user questionnaire) was completed by Steven Myers, Environmental Protection Specialist of US DOT –FAA (User) on April 14, 2022. A copy of the user questionnaire is included in Appendix F. Information provided to BLDI is described below.

- The User stated that the subject property has to be utilized for aviation purposes under the Airport Improvement Program Grant assurances.
- The User stated that they have specialized knowledge or experience related to the subject property or nearby property. The User did not provide additional information.
- The User stated that the past uses of the subject property consisted of agricultural land or undeveloped airport property since the 1960s.
- The User stated that the FAA is unaware of any past or present chemical releases, spills, environmental cleanup, or any chemical storage occurring on the subject property.
- The User is not aware of any environmental issues related to the subject property.
- The User has not received or reviewed any title records for activity and use limitations (AULs), including the presence of environmental liens for the subject property. However, no environmental agency activity or action to indicate the presence of a lien on the subject property was identified in other sources reviewed by BLDI during this Phase I ESA.

5.0 RECORDS REVIEW

5.1 Physical Setting Sources

The following sources were used to provide information on the physical setting of the subject property:

- USGS Topographic Map – Grand Rapids East, Michigan 7.5-Minute Quadrangle
- The National Resource Conservation Service Web Soil Survey
- Michigan Department of Environment, Great Lakes, and Energy – GeoWebFace

5.1.1 Regional Geology

According to GeoWebFace, the uppermost bedrock beneath the subject property is identified as the Mississippian age Michigan Formation. This formation consists of units of gypsum, dolomite, and shale that were deposited in a shallow, nearshore marine environment.

According to GeoWebFace, the surficial geology in the area of the subject property consists of end moraines of fine-textured till. This non-sorted glacial debris is typically gray, grayish brown or reddish brown, clay to silty clay loam that alternates with units of variable amounts of cobbles and boulders. These deposits occur in narrow linear belts of hummocky relief marking the former stillstands of ice-sheet margins. It includes small areas of ground moraine as well as outwash. The thickness is somewhat greater than adjacent ground moraines.

5.1.2 Topographic Features

The elevation of the subject property is approximately 790 feet above mean sea level according to the U.S. Geological Survey (USGS) topographic map of the Grand Rapids East, Michigan 7.5 Minute Quadrangle. The topographic gradient of the subject property is generally flat.

5.1.3 Soils/Hydrogeology

Soils on the subject property are generally identified by the USDA Natural Resources Conservation Service as blount loam.

The nearest body of surface water is the Thornapple River located approximately 1.06 miles to the east-northeast of the subject property. Based on the information obtained from a review of the area topography and local surface water features, general groundwater flow is anticipated to flow to the east and discharge to Thornapple River.

5.2 Standard Environmental Record Sources

A database search for federal and state agency records was performed by EDR on April 19, 2022 to determine whether there are any agency files describing on-site and/or off-site sources of

contamination which may have impacted or could potentially impact the subject property. The results of the database search are reported in Appendix D.

The EDR report is a radius search that reviews standard environmental record sources and focuses on sites within specified search distances, which may adversely impact the subject property. The records search, as defined by ASTM E1527-21, includes sites identified from sources within the designated distances from the subject property. The distances searched for each record source is specified on the EDR report in Appendix D. Several listings of environmental concern across four properties were identified within the default search radii.

The subject property[1] is not listed by the databases searched by EDR.

The other mapped sites identified as having the potential to have a negative environmental impact on the subject property are summarized in the following table. Note that BLDI requested to review the Michigan Department of Environment, Great Lakes, and Energy (EGLE) and Department of Licensing and Regulatory Affairs (LARA) files for the subject property and several adjoining/nearby sites of potential concern via Freedom of Information Act (FOIA).

Name(s) of Site/Address	Type of Site*	Distance from Subject Property	Rationale	Impact on Subject Property?
Gerald R. Ford International Airport (GFIA) Grand Rapids, Kent County**** / 5500 44th Street SE	UST, ERNS, LUST, INVENTORY, SPILLS, BEA, Financial Assurance, RGA LUST, RCRA-VSQG, RCRA NonGen, NLR, ICIS, FINDS, ECHO, AIRS, WDS, PFAS, HMIRS, AUL, PRP, NPDES	Adjoining property (#1 on Figure 2)	• Based upon review of EGLE and LARA files, these listings appear to be outside of VEC and do not appear to represent a significant environmental concern to the subject property • Side/up-gradient (with respect to the anticipated easterly groundwater flow direction**) to the subject property and outside of the Vapor Encroachment Condition (VEC) screening area*** to the subject property; no indication of hazardous substances and/or petroleum products migrating off-site towards the subject property	Unlikely

[1] Although the parcel which the subject property is a part of (5500 44th Street) is listed in the database, none of the listings are applicable to the subject property itself.

Name(s) of Site/Address	Type of Site*	Distance from Subject Property	Rationale	Impact on Subject Property?
Avflight Grand Rapids Corporation / 4211 Casscard Lane SE	INVENTORY; BEA	Approx. 1,510 ft west of the subject property	• Please refer to section 5.3.1	Unlikely

* See EDR Database in Appendix D for definitions of the types of sites.
**Anticipated groundwater flow direction obtained from a review of area topographic maps and/or environmental reports prepared for adjoining/nearby properties
*** Screened using ASTM E2600 default screening criteria.
**** Gerald R. Ford International Airport (GFIA) Grand Rapids – including owner/occupants of individual hangers, storefronts, car rentals, etc. located within the Gerald R Ford International Airport property.

Based on a review of available information, the other geocoded sites of environmental concern identified by the database report are not likely to have a negative impact on the subject property.

A total of one other site was listed on the database report as " orphan" sites. These are sites for which there is insufficient address information for plotting them on computer-generated maps. Based on general knowledge and familiarity with the nearby geographical area, the unplottable sites are not located within the default search radii of the subject property or are otherwise unlikely to affect the subject property.

5.3 Additional Environmental Records Sources

5.3.1 Regulatory Agency File and Records Review

A review of the EGLE database of Part 201 enforcement liens was conducted regarding the presence of environmental liens on the subject property. According to the EGLE database, there are no perfected environmental liens on the subject property.

BLDI conducted a review of the EGLE and Department of Licensing and Regulatory Affairs (LARA) files for the subject property and adjoining/nearby sites of potential concern under the Freedom of Information Act (FOIA). The information obtained from this file review that is pertinent to the possibility for impact to migrate off-site is presented below. Although the parcel which the subject property is a part of (5500 44th Street) is listed in the database, none of the listings are applicable to the subject property itself.

Avflight Grand Rapids Corporation, 4211 Cassard Lane SE

Referenced property	4211 Cassard Lane, Cascade Charter Township, MI
Direction and distance from subject property*	Approx. 1,510 ft East
Limited Background	• A BEA was submitted for the property in October 2021 • No RECs were identified for the property in a Phase I ESA (May 2021) • Phase II was conducted in September 2021 to assess subsurface conditions to a maximum depth of 15' bgs. • Historically farmland and vacant airport maintained land.
Referenced Property Screening Data	
Soil impact on referenced property	Select target analytes detected in the soil samples collected at the site at concentrations exceeding their respective laboratory detection limits but were below applicable state criteria.
Soil Type(s)	Generally clay soils below 0 to 4 feet of sand
Groundwater impact on referenced property	Lead was detected in two groundwater samples collected at concentrations exceeding applicable state criteria
Depth to groundwater	From two (2) feet below ground surface (bgs) to 10.5 feet bgs
Groundwater flow direction/toward/away from the subject property	No information provided in file; however, based on topography groundwater is likely to flow to the east toward the subject property
Potential for Vapor Encroachment Condition (VEC)**	Unlikely: property is located within VEC, however detected analytes are below Volatilization to Indoor Air Protection (VIAP) screening levels.

* According to measurements from EDR
** Screened using ASTM E2600 default screening criteria

Please refer to Section 9.0 for additional information on BLDI's opinion regarding these findings and their potential to impact the subject property.

5.3.2 Previous Environmental Reports

A Stormwater Pollution Prevention Plan (SWPPP) and a Spill Prevention, Control and Countermeasures / Pollution Incident Prevention Plan (SPCC/PIPP) were provided to BLDI by the User. Information obtained from this file review is presented below:

- The SWPPP was prepared for the GFIA in Grand Rapids, Michigan, and was developed to satisfy the requirements of Part I.A.13 of Michigan's National Pollutant Discharge Elimination System (NPDES) Permit No. MI0055735 (issued February 26, 2018, effective March 1, 2018) for stormwater discharges associated with industrial activity.

- Stormwater runoff from the eastern portion of the site which includes the subject property is collected in a network of catch basins, storm sewers and open ditch systems which are routed to a series of outfalls (i.e., Outfalls 001 through 005 and 011). These outfalls discharge either directly into the Thornapple River, or to unnamed tributaries, which enter the Thornapple River. With completion of the long-term stormwater/deicing management system in 2015, flow is now only routed to Outfall 001 (located approximately 0.85 miles north of the subject property) during the non-deicing season when conditions allow; otherwise flow is routed to Outfall 011 (located approximately 1.15 miles to the east of the subject property).
- The SPCC/PIPP plan was developed for the storage and handling of oil and other polluting materials operated and maintained by GFIA.
- All oil storage by GFIA is stored on the airfield side of the airport (western portion of the site) (nearest storage located approximately 0.75 mile to the west of the subject property).

5.3.3 Health Department Information

BLDI requested to review local health department files for the subject property. Information obtained from this file review is presented below:

- In 1990, documentation of a land application of up to approximately 3,414,000 gallons of diluted sludge from 4 sanitary sewage lagoons was approved. The location in which the land application was to be performed was not included in the documentation; however, no evidence that it was applied on or in the vicinity of the subject property was noted in historical sources. The former sanitary lagoons were located nearby to the west of the subject property.
- Information regarding the septic systems and drinking water wells installed on the GFIA property were not installed within the nearby vicinity of the subject property.
- Additional information included within the Kent County Health Department files were not pertinent to the subject property.

Documentation of the response from the local health department is presented in Appendix F. Please refer to Section 9.0 for additional information on BLDI's opinion regarding these findings and their potential to impact the subject property.

5.4 Historical Use Information on the Subject Property

Specific sources utilized during this Phase I ESA include:

- Cascade Charter Township Assessing Records
- Aerial Photographs
- Historical City Directories
- USGS Topographic Maps
- Interview with Ms. Michelle Baker (representative of the subject property owner)

Subject Property – Summary of Historic Use				
Period	**Aerial Photographs**	**Fire Insurance Maps**	**Topographic Maps**	**City Directories**
1900-1919	Not available	Not available	No significant features (1914, 1918)	Not available
1920-1939	Agricultural (field crops) land (1938)	Not available	Not available	Not available
1940-1949	Not available	Not available	Not available	Not available
1950-1959	Similar to 1938 (1955)	Not available	Not available	No listing (1959)
1960-1969	Similar to 1955 (1965)	Not available	No significant features (1967)	No listing (1962) Gerald R Ford International Airport** (1967)
1970-1979	Similar to 1965 (1974, 1978)	Not available	No significant features (1972, 1978)	Gerald R Ford International Airport** (1972, 1977)
1980-1989	Similar to 1978 (1981, 1987)	Not available	No significant features (1981, 1982)	Gerald R Ford International Airport** (1982, 1987)
1990-1999	Land disturbance across entire subject property, likely associated with land clearing for developments within the area (1999)	Not available	Not available	Gerald R Ford International Airport** (1992, 1995)
2000-2009	Vacant land – grass lot / similar to current configuration (2006) Similar to 2006/current configuration (2009)	Not available	Not available	No listing (2000) Gerald R Ford International Airport** (2005)
2010-2019	Similar to 2009/current configuration (2012, 2016)	Not available	No significant features (2014, 2016, 2017)	Gerald R Ford International Airport** (2010, 2014, 2017)
2020-Current	Not available	Not available	Not available	Not available

* The subject property is currently a portion of 5500 44th Street SE.
**Including owner/occupants of individual hangers, storefronts, car rentals, etc. located within the Gerald R Ford International Airport property.

No historical uses that indicate the potential for a release of hazardous substances and/or petroleum products were identified.

Information obtained from the sources identified above is presented in the following sections. Historical documentation is presented in Appendix E. Note: the subject property boundaries as shown on the historic documentation are approximate.

Data Failures:

- The inability to identify the historic use of the subject property back to the first developed use.

- A gap of greater than five years with no historical information, during which the use of the subject property changed was identified.

Refer to Section 8.0 for additional information on BLDI's opinion regarding the significance of these identified data failures.

5.4.1 Aerial Photographs

Pertinent observations obtained from the aerial photographs are as follows:

Year	Historical Uses of the Subject Property
1938, 1955, 1965, 1974, 1978, 1981, 1987	Agricultural (field crops) land
1999	Land disturbance across entire subject property, likely associated with land clearing for developments within the area
2006, 2009, 2012, 2016	Vacant land – grass lot / similar to current configuration

Direction from Subject Property	Historic uses of Adjoining Properties
North	1938, 1955, 1965, 1974, 1978, 1981, 1987: Agricultural (field crops) land
	1999: Disturbed land, likely due to clearing of undeveloped land
	2006, 2009, 2012, 2016: Vacant/vegetated land
East	1938, 1955: Agricultural (field crops) land
	1965, 1974, 1978, 1981, 1987: Residential building developed
	1999: Road developed followed by disturbed land, likely due to clearing of undeveloped/residential land
	2006, 2009, 2012, 2016: Vacant/vegetated land
South	1938, 1955, 1965, 1974, 1978, 1981, 1987: Agricultural (field crops) land
	1999, 2006, 2009, 2012, 2016: Commercial building developed
West	1938, 1955, 1965, 1974, 1978, 1981, 1987: Agricultural (field crops) land
	1999: Disturbed land, likely due to clearing of undeveloped land
	2006, 2009, 2012, 2016: Vacant/vegetated land

Bodies of water, representing sewage lagoons, appear to have been located nearby to the west of the subject property between at least 1967 through 1982. In addition, an airport runway appears to have been located nearby to the south and west of the subject property between at least 1999 through 2016. No additional properties in the surrounding area are identified with the potential to have had an environmental impact on the subject property.

The historical information obtained from the aerial photographs is consistent with historical information obtained from other sources.

5.4.2 Historical Fire Insurance Maps

Historical fire insurance maps, also known as Sanborn maps, are detailed scaled drawings that show the location and use of building structures that have occupied a given area from as early as the late 1800s. These maps can provide information that is unavailable from other sources regarding the development and use of a given property. Due to the historically rural location of the subject property, no historical fire insurance maps were available for the subject property.

5.4.3 Subject Property Tax, Building and Zoning Department Records

BLDI requested to review assessing record files from the Cascade Charter Township for the subject property. According to the Cascade Charter Township, no records are on file for the subject property.

Documentation of the response from the Cascade Charter Township is presented in Appendix E.

5.4.4 Recorded Land Title Records

The User indicated that they have not received or reviewed any title records for AULs, including the presence of environmental liens for the subject property. However, the User indicated the following regarding AULs l for the subject property:

- The subject property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.

5.4.5 Local Street Directories

City directories were reviewed from 1959 to 2017 to determine the past occupants and uses of the subject property. No historical addresses were identified for the subject property.

Pertinent observations from the city directories are as follows:

Direction from Subject Property	Historic uses of the Subject Property and Adjoining Properties
North, East, and West: 5500 44th Street SE*	1959, 1962: Address not listed
	1967: Gerald R Ford International Airport**
	1972: Gerald R Ford International Airport**
	1977: Gerald R Ford International Airport**
	1982: Gerald R Ford International Airport**
	1987: Gerald R Ford International Airport**
	1992: Gerald R Ford International Airport**
	1995: Gerald R Ford International Airport**
	2000: No listing
	2005: Gerald R Ford International Airport**
	2010: Gerald R Ford International Airport**
	2014: Gerald R Ford International Airport**
	2017: Gerald R Ford International Airport**
South: 6425 Air Cargo Drive SE***	Street not included

* The subject property is currently a portion of 5500 44th Street SE.
**Including owner/occupants of individual hangers, storefronts, car rentals, etc. located within the Gerald R Ford International Airport property.
*** City directory listings for Air Cargo Drive SE were not reviewed during the completion of this Phase I ESA. Refer to Section 8.0 regarding this data gap.

An airport and individual owner/occupants including individual hangers and car rentals appear to have been located nearby to the subject property between at least 1967 through 2017. No additional properties in the surrounding area are identified as having the potential to have had an environmental impact on the subject property.

5.4.6 Topographic Maps

No significant features were identified on the subject property or adjoining properties based on a review of the historic topographic maps.

Bodies of water, representing sewage lagoons, appear to have been located nearby to the west of the subject property between at least 1967 through 1982. In addition, an airport appears to have been located nearby to the south and west of the subject property between at least 2014 through 2019. No additional properties in the surrounding area are identified as have the potential to have had an environmental impact on the subject property.

The historical information obtained from the topographic maps is consistent with historical information obtained from other sources.

5.4.7 Other Historical Sources

No other historical information resources were utilized during the Phase I ESA.

6.0 SITE RECONNAISSANCE

6.1 Methodology and Limiting Conditions

Reconnaissance Information	
BLDI Field Personnel:	Ashley M. Plocharczyk and Rachel M. Kane
Site Reconnaissance Date:	May 3, 2022
Weather Conditions:	Rainy, approximately 45˚F
Site Visit Guide	Ms. Michelle Baker, representative of the subject property owner

The site reconnaissance included all portions of the subject property. No limiting conditions were encountered during this Phase I ESA.

6.2 Subject Property Observations

Description	Observed On-Site	Relevant Section for Additional Discussion
UST(s)	No	Section 6.2.1
AST(s)	No	Section 6.2.2
Drums, Totes, and Intermediate Bulk Containers	No	Section 6.2.3
Other Hazardous Substances/Petroleum Products	No	Section 6.2.4
Hazardous Substances/Petroleum Products Not in Connection	No	Section 6.2.5
Unidentified Substance Containers/Abandoned Containers	No	Section 6.2.6
Staining	No	Section 6.2.7
Standing Surface Water and Pools/Sumps	No	Section 6.2.8
Strong, Pungent, or Noxious Odors	No	Section 6.2.9
Stressed Vegetation	No	Section 6.2.10
Polychlorinated Biphenyl (PCB) - Containing Items	No	Section 6.2.11
Drains, Sumps, Grit Traps, Oil/Water Separators	No	Section 6.2.12
Regulated Waste Management	No	Section 6.2.13
Recyclable Materials, Solid Waste Management	No	Section 6.2.14
Water/Wastewater	No	Section 6.2.15
Pits, Ponds, or Lagoons	No	Section 6.2.16
Wells	No	Section 6.2.17
Septic Systems or Cesspools	No	Section 6.2.18

Please refer to the appropriate sections below for additional information regarding the observations identified during the site reconnaissance. Please refer to Section 9.0 for a summary of the findings identified in the following sections.

6.2.1 Underground Storage Tanks (USTs)

No indications of USTs, such as vent pipes or fill ports, were observed on all portions of the subject property during the site reconnaissance. No records of UST installation or removal are on file with the LARA for the subject property.

6.2.2 Aboveground Storage Tanks (ASTs)

No evidence of current or previous ASTs, such as concrete pads, cradles, or piping, was observed on all portions of the subject property during the site reconnaissance.

6.2.3 Drums, Totes, and Intermediate Bulk Containers

No drums were observed on all portions of the subject property during the site

6.2.4 Other Hazardous Substances and Petroleum Products

No hazardous substances and/or petroleum products were observed to be present on all portions of the subject property during the site reconnaissance.

6.2.5 Hazardous Substance and Petroleum Product Containers Not in Connection With Identified Uses

No hazardous substances and/or petroleum products not in connection with identified uses were observed to be present on all portions of the subject property during the site reconnaissance.

6.2.6 Unidentified Substance Containers, Abandoned Containers

No unidentified substance or abandoned containers were observed to be present on all portions of the subject property during the site reconnaissance.

6.2.7 Stained Soil or Pavement and Stains or Corrosion on Floors, Walls, and Ceilings

No stained or corroded soils or pavement/flooring, walls, or ceilings were observed to be present on all portions of the subject property during the site reconnaissance.

6.2.8 Standing Surface Water and Pools or Sumps Containing Liquids Likely to be Hazardous Substances or Petroleum Substances

No standing surface water and/or pools or sumps containing liquids likely to be hazardous substances and/or petroleum products were observed on all portions of the subject property during the site reconnaissance.

6.2.9 Strong, Pungent, or Noxious Odors and Their Sources

No odors associated with hazardous substances and/or petroleum products use were observed on all portions of the subject property during the site reconnaissance.

6.2.10 Stressed Vegetation

No stressed vegetation indicative of a release of hazardous substances and/or petroleum products was observed to be present on the subject property during the site reconnaissance.

6.2.11 Polychlorinated Biphenyls (PCBs) Containing Items (hydraulic equipment, transformers, etc.)

No transformers, hydraulic equipment or other potential PCB containing equipment was observed on the subject property.

6.2.12 Drains, Sumps, Grit Traps, Oil/Water Separators

No floor drains, sumps, grit traps or oil/water separators were observed on all portions of the subject property during the site reconnaissance.

6.2.13 Regulated Waste Management

No hazardous/regulated waste is generated at the subject property. In addition, the subject property[2] is not listed on the environmental database or the EGLE Waste Data System (WDS)[3] as a generator of hazardous/regulated waste.

6.2.14 Recyclable Material, Solid Waste Management

No recyclable material and/or solid waste management was observed on the subject property during the site reconnaissance.

6.2.15 Water/Wastewater

No wastewater discharges are made at the subject property.

6.2.16 Pits, Ponds, or Lagoons

No pits, ponds, or lagoons associated with waste treatment or disposal were observed on the subject property during the site reconnaissance.

[2] Although the parcel which the subject property is a part of (5500 44th Street) is listed on the WDS, this listing is applicable to the subject property itself

[3] https://www.egle.state.mi.us/wdspi/AdvancedSearch.aspx

The subject property is currently maintained and operated by the GFIA. The GFIA has a Storm SWPPP and a SPCC / PIPP in place. Refer to Section 5.3.2 for additional information.

6.2.17 Wells

No wells were observed at the subject property during the site reconnaissance.

6.2.18 Septic Systems or Cesspools

No septic systems or cesspools were observed at the subject property during the site reconnaissance.

7.0 INTERVIEWS

7.1 Interview with Owner or Key Site Manager

The Key Site Manager of the subject property is Ms. Michelle Baker. Based on the interview with Ms. Michelle Baker (KSM) on May 3, 2022, the following information was obtained:

- The KSM indicated that the subject property has not been utilized for any specific purpose since the development of the airport.
- The KSM is aware of a former fire-fighting training area (FFTA) located northwest of the subject property. The KSM indicated that testing of aqueous film-forming foam (AFFF) containing PFAS occurred. at the FFTA at GFIA The documentation indicates that such testing was conducted for an unknown amount of time and discontinued in the mid-1990's. All testing was performed in compliance with the Airport's federal and state obligations under Part-139.[4]
- The KSM indicated knowledge of an AUL for the subject property as the subject property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.
- The KSM was unaware of any potential or on-going enforcement actions related to any environmental issue at the subject property or nearby property. The KSM indicated that they had no knowledge of nor were they in receipt of any draft or final administrative orders of consent (i.e., consent order), tolling agreements or any other potential environmental enforcement action by any governmental entity.
- The KSM was unaware of any potential third-party actions related to any potential environmental issue for the subject property or nearby property.
- The KSM was unaware of any additional AUL on the subject property related to soil or groundwater, including institutional controls (e.g., restrictive covenant).
- The KSM was unaware of any past, current or future environmental issue(s) requiring response in compliance with the relevant federal, state or local environmental regulations.

[4] Upon BLDIs review of the EGLE files provided, BLDI determined that based on the distances between the locations where AFFF were utilized on the GFIA property and the location of the subject property these sites do not appear to represent a significant environmental concern to the subject property.

Additional information obtained from Ms. Michelle Baker is presented in relevant sections throughout this report.

7.2 Interview with Local Government Officials

BLDI requested information from the Cascade Charter Township Fire Department regarding the subject property. The Cascade Charter Township Fire Department indicated they have no records of fires or hazardous material related incidents at the subject property due to the fact that the GFIA has its own fire department.

7.3 Interview with Others

No additional interviews were conducted as a part of this Phase I ESA.

8.0 DATA GAPS

The fact that the first developed use of the subject property could not be identified is considered a data failure. The oldest reasonably ascertainable historical use information for the subject property that shows actual features of the subject property is the 1938 aerial photograph (please refer to Section 5.4.1). On this aerial photograph the subject property appears to be utilized for agricultural purposes. It is unlikely that the identification of uses of the subject property prior to those described by the oldest reasonably ascertainable historical use information (i.e., the 1938 aerial photograph) could result in the discovery of additional RECs. This interpretation is based on the fact that the area of the subject property was utilized for agricultural purposes and was not likely used for industrial purposes or for other uses that may have involved the use of hazardous material prior to this time. Therefore, this data failure is not considered a significant data gap.

A gap of greater than five years with no historical information, during which the use of the subject property changed, was identified. The subject property use changes and dates that fall under this data gap include:

- Agricultural use in 1987 to disturbed land by 1999

It is unlikely that the identification of uses of the subject property in this greater than five-year gap could result in the discovery of any RECs. This interpretation is based on the fact that it is unlikely that any commercial/industrial uses requiring significant quantities of hazardous substances and/or petroleum products would have been present or otherwise occurred on the subject property due to the short time-frame of this gap and the use of the subject property by 1999. Based on this information, this data failure is not considered to be a significant data gap.

The city directories for select adjoining properties were not able to be reviewed (addresses on Air Cargo Drive SE). However, a review of any files and other available information for these properties, with consideration to applicable screening distances, showed no evidence of hazardous substances and/or petroleum products that would have migrated or have the potential to migrate to the subject property as a result of the documented historic/current uses for these

properties. Based on this information, this data failure is not considered to be a significant data gap.

9.0 FINDINGS AND OPINIONS

The following sections provide a summary of the findings identified during this Phase I ESA, as well as BLDI's opinion regarding both the potential impact of the identified findings on the subject property and the rationale for concluding that a condition is or is not currently a REC. An evaluation of the significance of any identified data gaps is provided in Section 8.0 above.

9.1 RECs

No findings were identified during the course of this Phase I ESA that support the identification of RECs at the subject property.

9.2 CRECs

No findings were identified during the course of this Phase I ESA that support the identification of CRECs at the subject property.

9.3 HRECs

No findings were identified during the course of this Phase I ESA that support the identification of an HREC for the subject property.

9.4 De minimis

No findings were identified during the course of this Phase I ESA that support the identification of de minimis conditions for the subject property.

9.5 Additional Findings

The following additional findings were identified during the course of this Phase I ESA, but do not support the identification of any RECs/CRECs, HRECs, or de minimis conditions at the subject property:

- Adjoining properties listed in the governmental records searched

Several nearby and/or adjoining properties were listed in the governmental database records searched and/or within the various historical sources reviewed. However, a review of the files and other available information for these properties, with consideration to applicable screening distances, showed no evidence of hazardous substances and/or petroleum products that would have migrated or have the potential to migrate to the subject property. Therefore, no REC is identified based on these findings.

9.6 BERs

No findings were identified during the course of this Phase I ESA that support the identification of a BER for the subject property.

9.7 Significant Data Gaps

No findings were identified during the course of this Phase I ESA that support the identification of a significant data gap for the subject property.

9.8 Opinion Regarding Additional Assessment

It is BLDI's opinion that, as no RECs/CRECs were identified within this Phase I ESA, no additional assessment is necessary at this time.

As stated in Section 2.1, the owner/operator may have due care/continuing obligations related to CERCLA liability protections.

10.0 CONCLUSIONS

BLDI has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527-21 for the proposed new Airport Traffic Control Tower at Gerald R. Ford International Airport property located at Site B58 (5500 44th Street SE) in Cascade Charter Township, Kent County, Michigan (the subject property). Any exceptions to, or deletions from, this practice are described in Section 2.4 of this report. This assessment has revealed no RECs, CRECs, or significant data gaps in connection with the subject property.

11.0 DEVIATIONS

Any deletions or deviations or additions from this practice (if any) are listed individually.

12.0 ADDITIONAL SERVICES

Non-scope considerations to satisfy FAA standard include, but are not limited to: asbestos-containing materials; radon; lead-based paint; lead in drinking water; wetlands; and microbial growth/moisture intrusion. No implication is intended as to the relative importance of inquiry into such non-scope considerations.

BLDI advises users of this document who wish to obtain an evaluation of non-scope considerations to retain BLDI to investigate such issues.

12.1 Asbestos

Asbestos is a general name for a group of naturally-occurring minerals composed of small fibers and was commonly used in many building materials produced and utilized for fireproofing and insulation purposes. Asbestos-containing materials (ACMs) can be present in any building material, typically in buildings constructed prior to 1989. Because no buildings are currently or have historically been located on the subject property, it is unlikely that asbestos containing materials are present at the subject property.

12.2 Radon

Radon is a colorless, odorless, radioactive gas. It comes from the natural decay of uranium that is found in nearly all soils. It typically migrates through the soil to the air above and into buildings through cracks and openings in the foundation.

BLDI reviewed the USA EPA Map of Radon Zones which was developed using five factors to determine radon potential: indoor radon measurements, geology, aerial radioactivity, soil permeability, and foundation type. Radon potential assessment is based on geologic provinces. Geologic Provinces were adapted to county boundaries for the Map of Radon Zones. EPA's Map of Radon Zones assigns each of the 3,141 counties in the U.S. to one of three zones based on radon potential. Based on this review, Kent County lies within Zone 2. Zone 2 are counties which have a predicted average indoor radon screening level less than 2 pCi/L; this zone is considered "low potential" of indoor radon. Please be aware that this information is based on samples that have been collected from across Kent County. No site-specific radon assessment was performed at the subject property during the course of this Phase I ESA. Based on this information, radon gas does not appear to present a concern at the subject property.

12.3 Lead-Based Paint

Because no buildings are currently or have historically been located on the subject property, it is unlikely that lead based paint is present at the subject property.

12.4 Lead in Drinking Water

Because no buildings are currently or have historically been located on the subject property, it is unlikely that lead in drinking water could be a concern at the subject property.

12.5 Wetlands

No wetlands were observed on the subject property during the site reconnaissance. A review of the U.S. Fish and Wildlife Service's online wetlands maps and the EGLE Wetlands Map Viewer wetlands maps did not indicate the presence of wetlands on the subject property.

12.6 Microbial Growth and Moisture Intrusion

Because no buildings are currently or have historically been located on the subject property, there is no potential for microbial growth or moisture intrusion at the subject property.

12.7 Likely Presence of Substances Not Defined as a CERCLA Hazardous Substance

No evidence of a release of any substance not defined as a CERCLA Hazardous Substance has been identified at the subject property during the development of this report.

13.0 REFERENCES

ASTM International, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, ASTM Designation: E-1527-21

ASTM International, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, ASTM Designation: E-2600-15

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA or Superfund), as amended by Superfund Amendments and Reauthorization Act of 1986 (SARA) and Small Business Liability Relief and Brownfields Revitalization Act of 2002 (Brownfield Amendments)

Environmental Database Reports, April 2022

EGLE Wetlands Map Viewer

Michigan Department of Environment, Great Lakes, and Energy – GeoWebFace (http://ww2.deq.state.mi.us/GeoWebFace/#DefaultZoom)

Michigan Department of Environment, Great Lakes, and Energy - MPART: PFAS Geographic Information System (https://egle.maps.arcgis.com/apps/webappviewer/index.html?id=bdec7880220d4ccf943aea13eba102db)

Part 201 of Michigan's NREPA

The National Resource Conservation Service Web Soil Survey (http://websoilsurvey.nrcs.usda.gov/app/)

United States Environmental Protection Agency, Michigan Radon Program (https://www.epa.gov/radon/epa-map-radon-zones)

United States Fish and Wildlife Service Online Wetlands Mapper (http://www.fws.gov/wetlands/Data/mapper.html)

United States Geological Survey Topographic Map, 7.5-minute series, *Grand Rapids East, Michigan Quadrangle,* scale 1:24,000, U.S. Geological Survey, Denver, Colorado

United States Geological Survey Topographic Map, 15-minute series, *Grand Rapids Michigan Quadrangle,* scale 1:62,500, U.S. Geological Survey, Denver, Colorado

Agencies Contacted

Cascade Charter Township, Michigan

Assessor's Office
Building Department
Engineering Department

Kent County Health Department

Michigan Department of Environment, Great Lakes, and Energy

Michigan Department of Licensing and Regulatory Affairs

14.0 SIGNATURES OF ENVIRONMENTAL PROFESSIONALS

This Phase I ESA documents the research and methods used by BLDI to obtain, identify, and evaluate information on the past and present conditions of the subject property located at B58 GRR Airport ETCT in Cascade Charter Township, Kent County, Michigan.

BLDI performed this Phase I ESA in accordance with ASTM Standard Practice E1527-21 with the modifications outlined in the introduction of this report.

The site reconnaissance and interviews were conducted by Ashley M. Plocharczyk and Rachel M. Kane. This person was also responsible for obtaining and reviewing historical use documentation, interpreting data, identifying RECs, and preparation of this Phase I ESA Report. All of the activities were performed in conjunction with and under the supervision or responsible charge of, Sarah R. Jacobitz, EP the environmental professional assigned to this project.

I certify that I possess sufficient education, training, and relevant experience necessary to conduct the investigative and interpretive activities presented in the paragraph above in accordance with the ASTM E1527-21 standard and possess the ability to identify issues relevant to RECs in connection with the subject property.

Ashley M. Plocharczyk
Associate Project Manager

May 17, 2022
Date

I certify that the investigative and interpretive activities presented in the paragraph above were performed in conjunction with me and under my supervision or responsible charge. I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in § 312.10 of 40 C.F.R. § 312 and I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 C.F.R. Part 312.

Sarah R. Jacobitz, EP
Project Manager

May 17, 2022
Date

CGR
QA/QC

15.0 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Sarah Jacobitz holds a BS degree in Environmental Engineering from Michigan Technological University. She has performed a variety of sampling techniques in soil as well as surface water and groundwater systems. Ms. Jacobitz has also conducted investigations at leaking underground storage tank (LUST) sites. She has completed the OSHA 40-Hour HAZWOPER training course, the annual 8-Hour HAZWOPER refresher courses and is a licensed Asbestos Building Inspector. Ms. Jacobitz has over ten years of experience conducting Phase I and Phase II Environmental Site Assessments, Baseline Environmental Assessments, and Section 7a Due Care Plans. Based on her education, experience and training, Ms. Jacobitz meets the criteria for an Environmental Professional (EP) set forth in USEPA's "all appropriate inquiry rule."

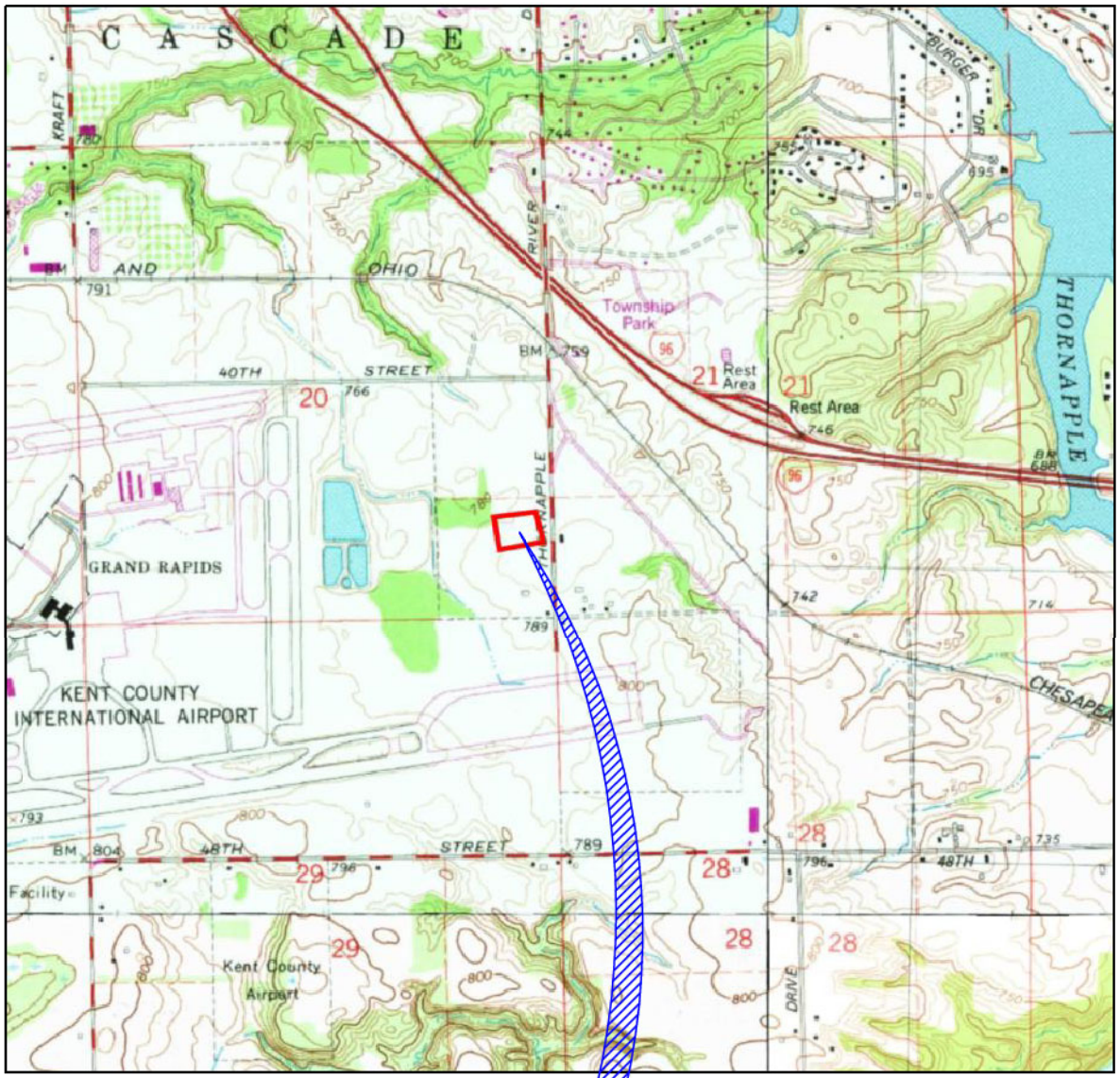
Ashley Plocharczyk holds a double Bachelor of Science degree in Environmental Science – Earth Science and Environmental Studies - Land Resources from the University of Michigan. They have received training in a variety of sampling techniques in soil as well as groundwater systems. Ms. Plocharczyk has received training in the ASTM Phase I Environmental Site Assessment training (ESA) (ASTM E1527), Phase II ESAs (ASTM E1903), Baseline Environmental Assessments, and Section 7a Due Care Plans. Ms. Plocharczyk has also completed the OSHA 40-hour HAZWOPER training course and the annual 8-Hour HAZWOPER refresher course.

Rachel Kane holds Bachelor of Science degrees in Environmental Science and Biology from the University of Wisconsin-Superior. She is receiving training to perform various sampling techniques in soil and groundwater systems. Additionally, Ms. Kane has completed the OSHA 40-Hour HAZWOPER training course.

APPENDIX A

Subject Property Location Map and Subject Property Layout Map

BLDI
Environmental Engineering

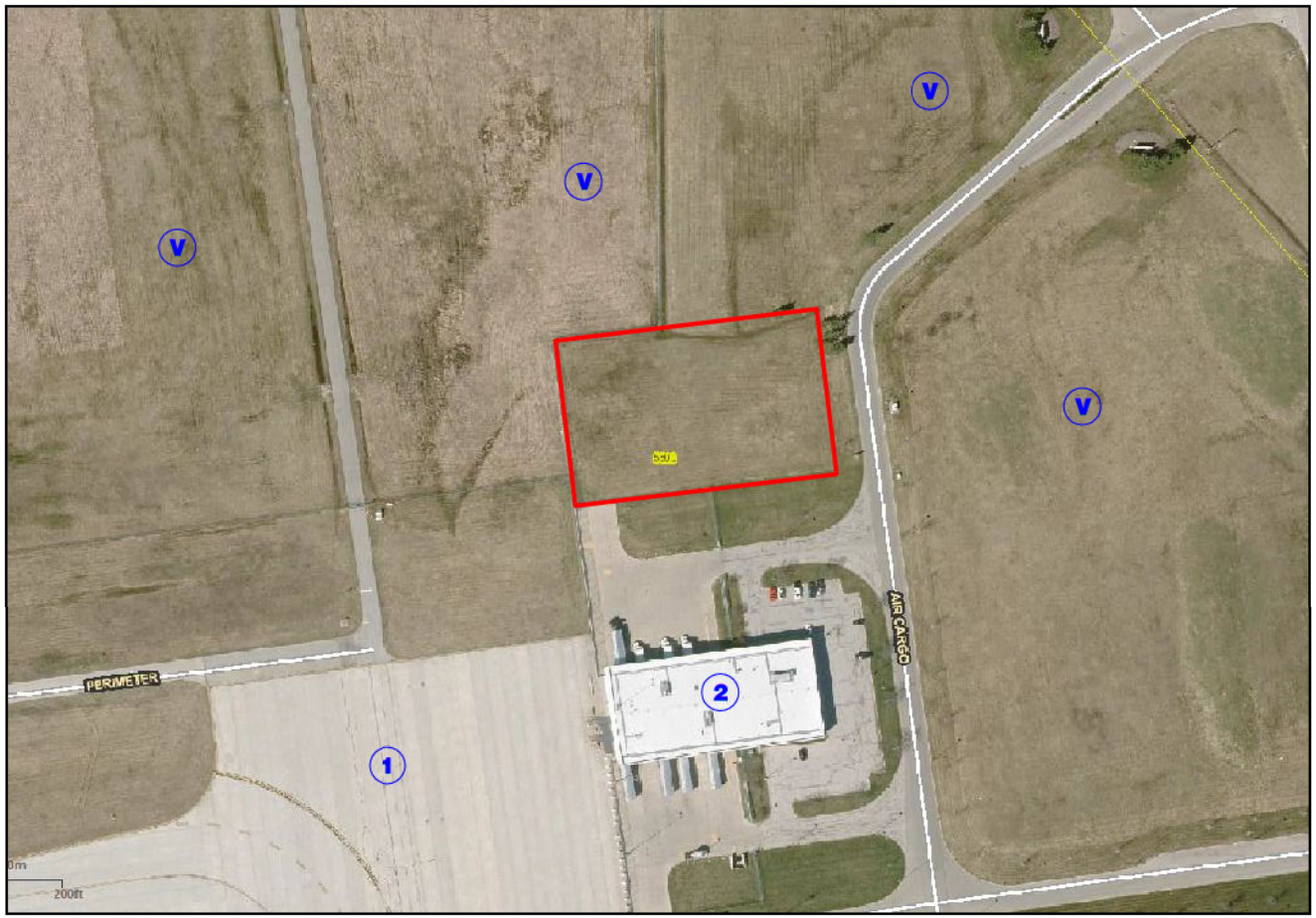


SJ

FIGURE 1
SUBJECT PROPERTY LOCATION MAP
Site B58
(a portion of 5500 44th Street SE)
Cascade Charter Township, Michigan
May 2022 225361

NOT A LEGAL SURVEY

BLDI
Environmental Engineering



Legend

1. Gerald R. Ford International Airport
   5500 44th Street SE
2. United Postal Service
   6425 Air Cargo Drive SE
V. Vegetated portions of Gerald R. Ford International Airport

Subject Property Boundaries

SJ

0 250 500

APPROXIMATE SCALE IN FEET

NOT A LEGAL SURVEY

FIGURE 2
SUBJECT PROPERTY LAYOUT MAP

Site B58
(a portion of 5500 44th Street SE)
Cascade Charter Township, Michigan

May 2022 225361

APPENDIX B

Legal Description

Property Search

Tax Description

Parcel Number: 41-19-20-300-020
Property Address: 5500 44TH ST SE

Description

411920300020 PART OF SEC'S 17, 19, 20, 21, 28, 29, 30 & 32 T6N R10W DESC AS - COM AT INT OF W LINE OF SEC 19 & SLY LINE OF C&O RR R/W /100 FT WIDE/ TH ELY ALONG SLY LINE OF SD RR R/W TO W 1/8 LINE OF SEC 20 TH N ALONG W 1/8 LINES OF SEC'S 20 & 17 TO NW COR OF S 1/2 SE 1/4 SW 1/4 OF SEC 17 TH E ALONG N LINE OF S 1/2 SE 1/4 SW 1/4 OF SEC 17 TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE TO WLY LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ TH S ALONG WLY LINE OF SD DR TO SLY LINE OF SD RR R/W TH SELY ALONG SLY LINE OF SD RR R/W TO W LINE OF E 60 FT OF SE 1/4 NE 1/4 OF SEC 20 TH S ALONG SD W LINE TO E&W 1/4 LINE OF SEC 20 TH E ALONG E&W 1/4 LINE OF SEC 20 TO W LINE OF E 43.0 FT OF SE 1/4 TH S ALONG SD W LINE TO S LINE OF N 163.0 FT OF SE 1/4 TH E ALONG SD S LINE TO SWLY LINE OF FORMER THORNAPPLE RIVER DR /120 FT WIDE/ TH SELY ALONG SD SWLY LINE TO SWLY LINE OF THORNAPPLE RIVER DR /120 FT WIDE/ TH SELY & SLY ALONG SD SWLY LINE TO E&W 1/4 LINE OF SEC 28 TH E ALONG E&W 1/4 LINE OF SEC 28 TO N&S 1/4 LINE OF SEC 28 TH S ALONG N&S 1/4 LINE OF SEC 28 TO S 1/8 LINE OF SEC 28 TH W ALONG S 1/8 LINE OF SEC 28 TO E LINE OF SEC 29 TH S ALONG E LINES OF SEC'S 29 & 32 TO A PT 1487.69 FT S 0D 07M 45S E FROM E 1/4 COR OF SEC 32 TH SWLY 80.06 FT ALONG A 4284.46 FT RAD CURVE TO RT /LONG CHORD BEARS S 58D 04M 34S W 80.06 FT/ TO A LINE BEARING NELY FROM A PT 470.0 FT N ALONG N&S 1/4 LINE OF SEC 32 FROM S 1/4 COR OF SEC 32 TH SWLY ALONG SD LINE TO A PT WHICH IS 697.0 FT N 0D 15M 16S W ALONG N&S 1/4 LINE OF SEC 32 & 548.51 FT N 63D 31M 56S E & 1132.02 FT S 89D 28M 02S E & 67.20 FT S 62D 28M 00S E FROM S 1/4 COR OF SEC 32 TH N 62D 28M 00S W 67.20 FT TH WLY 1175.03 FT ALONG A 1132.02 FT RAD CURVE TO LT /LONG CHORD BEARS N 89D 28M 02S W 1132.02 FT/ TH S 63D 31M 56S W 548.51 FT TO A PT 697.0 FT N ALONG N&S 1/4 LINE FROM S 1/4 COR OF SEC 32 TH N ALONG N&S 1/4 LINE OF SEC 32 TO N 1/8 LINE OF SEC 32 TH W ALONG N 1/8 LINE OF SEC 32 TO W LINE OF E 10 A. OF NE 1/4 NW 1/4 OF SEC 32 TH N ALONG SD W LINE TO S LINE OF SEC 29 TH W ALONG S LINE OF SEC 29 TO A PT 320.0 FT E ALONG S LINE OF SEC 29 FROM W 1/8 LINE OF SEC 29 TH N PAR WITH W 1/8 LINE OF SEC 29 TO N LINE OF S 3/4 SW 1/4 OF SEC 29 TH W ALONG SD N LINE TO E LINE OF SEC 30 TH N ALONG E LINE OF SEC 30 TO A PT 481.96 FT S FROM E 1/4 COR OF SEC 30 TH W 1328.13 FT PAR WITH E&W 1/4 LINE OF SEC 30 TO E 1/8 LINE OF SEC 30 TH SWLY 1265.28 FT TO A PT 73.0 FT E & 642.18 FT S FROM CEN OF SEC 30 TH S PAR WITH N&S 1/4 LINE OF SD SEC TO A PT 179.86 FT S FROM EXT S LINE OF N 40 A. OF SWFRL 1/4 OF SEC 30 TH W PAR WITH E&W 1/4 LINE OF SEC 30 TO W LINE OF SEC 30 TH N ALONG W LINES OF SEC'S 30 & 19 TO BEG EX PART OF SE 1/4 OF SEC 19 & PART OF SW 1/4 OF SEC 20 & PART OF NE 1/4 OF SEC 30 COM AT S 1/4 COR OF SEC 19 TH N 88D 37M E ALONG S LINE OF SD SEC 788.16 FT TH N 1D 23M W 108.0 FT TO BEG OF THIS EX - TH NELY 690.20 FT ALONG A 892.0 FT RAD CURVE TO LT /LONG CHORD BEARS N 66D 27M E 673.24 FT/ TH S 47D 49M E 651.32 FT TH N 81D 13M E 424.47 FT TH S 53D 47M E 83.77 FT TH N 36D 13M E 570.0 FT TH N 53D 47M W 32.72 FT

TH N 1D 22M W 812.51 FT TH S 53D 47M E 5.16 FT TH N 81D 13M E 150.0 FT TH N 8D 47M W 560.0 FT TH S 81D 13M W 138.40 FT TH S 8D 47M E 190.0 FT TH N 63D 23M W 38.54 FT TH SWLY 174.60 FT ALONG A 1042.0 FT RAD CURVE TO RT /LONG CHORD BEARS S 31D 25M W 174.38 FT/ TH S 36D 13M W 825.40 FT TH N 53D 47M W 650.0 FT TH S 36D 13M W 585.45 FT TH SWLY 358.50 FT ALONG A 392.0 FT RAD CURVE TO RT /LONG CHORD BEARS S 62D 25M W 346.14 FT/ TH S 1D 23M E 500.0 FT TO BEG & EX C&O RR R/W /100 FT WIDE/ & EX PART OF NE 1/4 SEC 20 COM 1658.17 FT S 0D 46M 17S E ALONG E SEC LINE & 75.0 FT S 89D 13M 43S W FROM NE COR OF SEC TO SWLY LINE OF HWY I-96 & WLY LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ TH S 0D 46M 17S E ALONG SD WLY LINE 98.19 FT TO NLY LINE OF PROPOSED 36TH ST /120 FT WIDE/ TH N 45D 58M 30S W ALONG SD NLY LINE 960.05 FT TH NWLY ALONG SD NLY LINE 1084.69 FT ON A 2924.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 56D 35M 58S W 1078.48 FT/ TH N 38D 40M 44S E 167.39 FT TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE 644.15 FT ON A 11309.16 FT RAD CURVE TO RT /LONG CHORD BEARS S 49D 41M 21S E 644.07 FT/ TH S 89D 39M 26S E ALONG SD SWLY LINE 70.61 FT TH SELY ALONG SD SWLY LINE 202.07 FT ON A 11356.16 FT RAD CURVE TO RT /LONG CHORD BEARS S 47D 03M 15S E 292.07 FT/ TH S 46D 19M 03S E ALONG SD SWLY LINE 980.68 FT TO BEG & EX THAT PART OF NW 1/4 & NE 1/4 OF SEC 20 LYING 60.0 FT NLY & 60.0 FT SLY /MEAS PERP TO/ & PAR WITH A LINE DESCRIBED AS COM 739.36 FT N 0D 46M 17S W ALONG E SEC LINE & N 45D 58M 30S W 105.69 FT FROM E 1/4 COR TO W LINE OF THORNAPPLE RIVER DR /150 FT WIDE/ & BEG OF THIS EX - TH N 45D 58M 30S W 1019.63 FT TH NWLY 1584.53 FT ON A 3864.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 61D 49M 13S W 1564.41 FT/ TH N 77D 39M 56S W 482.26 FT TO A PT ON E LINE OF NW 1/4 SD PT BEING 302.15 FT S 0D 46M 47S E FROM NW 1/4 TH N 77D 39M 56S W 928.25 FT TH WLY 397.82 FT ON A 2864.79 FT RAD CURVE TO LT /LONG CHORD BEARS N 84D 19M 08S W 397.15 FT/ TO E LINE OF W 1/2 OF NW 1/4 & PT OF THIS ENDING & EX COM AT S 1/4 COR SEC 17 TH N 0D 54M 01S W ALONG N&S 1/4 LINE OF SD SEC 408.58 FT TO SWLY LINE OF HWY I-96 TH NWLY 81.61 FT ALONG SD SWLY LINE ON A 3969.74 FT RAD CURVE TO RT /LONG CHORD BEARS TH N 55D 52M 34S W 81.61 FT/ TO BEG OF THIS EX - TH S 75D 53M 30S W 129.74 FT TH SLY 253.0 FT ON A 1240.0 FT RAD CURVE TO LT /LONG CHORD BEARS S 18D 10M 46S W 252.56 FT/ TH S 12D 20M 04S W 353.50 FT TO NLY LINE OF 36TH ST /120 FT WIDE/ TH N 77D 39M 56S W ALONG SD NLY LINE 320.0 FT TH N 12D 20M 04S E 353.50 FT TH NLY 436.97 FT ON A 1560.0 FT RAD CURVE TO RT /LONG CHORD BEARS N 20D 21M 32S E 435.55 FT/ TO S LINE OF KRAFT INDUSTRIAL PARK TH E ALONG SD S LINE TO SWLY LINE OF HWY I-96 TH SELY ALONG SD SWLY LINE TO BEG & EX PART OF SW 1/4 OF SEC 20 COM 1270.97 FT N 1D 40M 15S W & 1291.18 FT 90D 00M 00S E FROM SW COR OF SEC TH N 0D 00M 00S 134.67 FT TH 90D 00M 00S E 140.0 FT TH S 0D 00M 00S 149.0 FT TH 90D 00M 00S W 80.0 FT TH N 0D 00M 00S 14.33 FT TH 90D 00M 00S W 60.0 FT TO BEG & EX THAT PART OF SEC 21 LYING NLY OF SLY LINE OF VENNEMAN DR /86 FT WIDE/ & SLY OF NLY LINE OF SD DR & ELY OF W LINE OF SEC 21 & WLY OF SWLY LINE OF THORNAPPLE RIVER DR /120 FT WIDE/ & EX THAT PART OF SEC 21 LYING NLY OF NLY LINE OF 44TH ST /66 FT WIDE/ & SELY OF NWLY LINE OF 44TH ST RELOCATED /86 FT WIDE/ & WLY OF SWLY LINE OF FORMER THORNAPPLE RIVER DR /120 FT WIDE/ & EX S 250.0 FT OF N 300.0 FT OF W 17.0 FT OF E 50.0 FT OF SW 1/4 OF SEC 28 & EX PART OF NE 1/4 OF SEC 30 COM AT N 1/4 COR TH N 88D 37M E ALONG N SEC LINE 749.51 FT TH S 1D 23M E 356.06 FT TO BEG OF THIS EX - TH N 81D 13M E 709.0 FT TH S 8D 47M E 383.5 FT TH N 81D 13M E 117.0 FT TH S 8D 47M E 350.0 FT TH N 81D 13M E 21.0 FT TH S 8D 47M E 120.0 FT TH S 81D 13M W 278.0 FT TH N 8D 47M W 418.50 FT TH S 81D 13M W 692.0 FT TH N 8D 47M W 90.0 FT TH N 81D 13M E 123.0 FT TH N 8D 47M W 345.0 FT TO BEG & EX PART OF N 1/2 OF SEC 30 COM 35.12 FT N 88D 37M E ALONG

N SEC LINE & 211.95 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 1060.0 FT TH S 81D 13M W 234.50 FT TH N 8D 47M W 710.0 FT TH S 81D 13M W 75.0 FT TH N 8D 47M W 350.0 FT TH N 81D 13M E 309.50 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 59.32 FT N 88D 37M E ALONG N SEC LINE & 188.83 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 480.0 FT TH N 81D 13M E 235.0 FT TH N 8D 47M W 480.0 FT TH S 81D 13M W 235.0 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 59.32 FT N 88D 37M E ALONG N SEC LINE & 748.83 FT S 8D 47M E FROM N 1/4 COR TH S 8D 47M E 460.0 FT TH N 81D 13M E 235.0 FT TH N 8D 47M W 460.0 FT TH S 81D 13M W 235.0 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 2369.14 FT N 7D 25M 19S E & 891.62 FT 90D 00M 00S W FROM E 1/4 COR OF SEC 30 TH N 45D E 42.0 FT TH N 45D E 284.25 FT TH S 45D E 42.0 FT TH S 45D W 284.25 FT TO BEG & EX PART OF NE 1/4 OF SEC 30 COM 1950.75 FT N 7D 25M 19S E & 790.94 FT 90D 00M 00S W FROM E 1/4 COR OF SEC 30 TH 90D W 62.42 FT TH N 0D 270.96 FT TH 90D W 8.0 FT TH N 0D 10.67 FT TH 90D E 8.0 FT TH N 0D 2

APPENDIX C

Subject Property Photographs

Photograph Number 1:

Southwesterly view of the subject property.

Photograph Number 2:

Westerly view of the subject property from the northeastern portion of the subject property.

Photograph Number 3:

Southerly view of the subject property.

Photograph Number 4:

Western view of the subject property.

Photograph Number 5:

View of the northern adjoining property.

Photograph Number 6:

View of the eastern adjoining property across Air Cargo Street SE.

Photograph Number 7:

View of the southern adjoining property.

Photograph Number 8:

View of the western adjoining property.

APPENDIX D

Database Report

BLDI

Phase I Environmental Site Assessment

5500 44th Street SE
5500 44th Street SE
Grand Rapids, MI 49512

Inquiry Number: 6946680.2s
April 19, 2022

The EDR Radius Map™ Report with GeoCheck®

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

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Detail Map	3
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GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
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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 (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

5500 44TH STREET SE
GRAND RAPIDS, MI 49512

COORDINATES

Latitude (North):	42.8872770 - 42ˆ 53' 14.19"
Longitude (West):	85.5090490 - 85ˆ 30' 32.57"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	621751.3
UTM Y (Meters):	4749160.5
Elevation:	787 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	14450376 GRAND RAPIDS EAST, MI
Version Date:	2019
Northeast Map:	14457477 CASCADE, MI
Version Date:	2019
Southeast Map:	14457473 ALTO, MI
Version Date:	2019
Southwest Map:	14450350 CALEDONIA, MI
Version Date:	2019

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140828
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	HERTZ RENT A CAR	5500 44TH SE	RGA LUST		TP
A2	KENT COUNTY INTL AIR	5500 44TH ST SE	RGA LUST		TP
A3	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A4	HERTZ RENT-A-CAR	5500 44TH ST SE	RGA LUST		TP
A5	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A6	KENT COUNTY (CFR)	5500 44TH STREET SE	RGA LUST		TP
A7	KENT COUNTY DEPT OF	5500 44TH ST SE	RGA LUST		TP
A8	KENT COUNTY INTERNAT	5500 44TH ST.	RGA LUST		TP
A9	KENT COUNTY MAINTENA	5500 44TH ST SE	RGA LUST		TP
A10	KENT COUNTY MAINTENA	5500 44TH STREET SE	RGA LUST		TP
A11	KENT CO. INTERNATION	5500 44TH ST. SE	RGA LUST		TP
A12	INDEPENDENCE RECYCLI	5500 44TH STREET SE	AIRS		TP
A13	SIGNATURE FLIGHT-GRR	5500 44TH STREET SE	Financial Assurance		TP
A14	GERALD R. FORD INTER	5500 44TH STREET; SE	INVENTORY		TP
A15	INDEPENDENCE RECYCLI	5500 44TH STREET SE	AIRS		TP
A16	SMITHS INDUSTRIES	5500 44TH ST SE	RCRA NonGen / NLR		TP
A17	BISSELL INC	5500 44TH ST SE	FINDS, ECHO		TP
A18	TSA - GERALD R FORD	5500 44TH STREET SE	ICIS, FINDS, ECHO		TP
A19	KENT CT DEPT /AERONA	5500 44TH STREET SE	RGA LUST		TP
A20	CONTINENTAL EXPRESS	5500 44TH ST SE	RCRA NonGen / NLR		TP
A21	FEDERAL EXPRESS CORP	5500 44TH ST SE	RCRA NonGen / NLR, FINDS, ECHO		TP
A22	KENT COUNTY DEPT OF	5500 44TH STREET SE	RGA LUST		TP
A23	HERTZ CAR RENTAL	5500 44TH ST SE	AUL, WDS, PFAS		TP
A24	AMR COMBS GRAND RAPI	5500 44TH ST	LUST, UST		TP
A25		5500 44TH ST	HMIRS		TP
A26	BUILDING 106, 5500 4	BUILDING 106, 5500 4	BEA		TP
A27	LANDMARK AVIATION	5500 44TH ST	AST		TP
A28	ENVOY AIR INC	5500 44TH ST SE	RCRA-VSQG, FINDS, ECHO		TP
A29	INDEPENDENCE RECYCLI	5500 44TH STREET SE	FINDS		TP
A30	BUILDING 106, 5500 4	BUILDING 106; 5500 4	INVENTORY		TP
A31	KENT CT DEPT /AERONA	5500 44TH ST	LUST, UST, INVENTORY		TP
A32	LANDMARK AVIATION	5500 44TH ST SE	RCRA-VSQG		TP
A33	SIGNATURE FLIGHT-GRR	5500 44TH STREET SE	UST		TP
A34	ENVOY AIR INC	5500 44TH ST SE	RCRA NonGen / NLR		TP
A35	KENT COUNTY INTERNAT	5500 44TH STREET, SE	PRP		TP
A36	HERTZ RENT A CAR (AR	5500 44TH ST	LUST, UST, INVENTORY, NPDES		TP
A37	AVIS RENT A CAR SYST	5500 44TH ST	LUST, UST, INVENTORY		TP
A38	FAA GRR ASR4	5500 44TH ST	LUST, UST, INVENTORY		TP
A39	FAST DELIVERY INC HA	5500 44TH ST SE	RCRA-VSQG		TP

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A40	UNITED AIRLINES	5500 44TH ST	UST		TP
A41		5500 44TH STREET SE	ERNS		TP
A42	KENT COUNTY (CFR)	5500 44TH ST	LUST, INVENTORY, SPILLS, BEA, Financial Assurance,...		TP
A43	KENT COUNTY (CFR)	5500 44TH ST	LUST, UST		TP
A44	NORTHERN AIR INC	5500 44TH ST SE	RGA LUST		TP
A45	AVIS RENT-A-CAR	5500 44TH ST SE	RGA LUST		TP
A46	FAA AIRWAY FACILITIE	5500 44TH ST SE	RGA LUST		TP
A47	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A48	FAA GRR ASR4	5500 44TH ST SE	RGA LUST		TP
A49		5500 44TH STREET SE,	SPILLS		TP
A50	TSA - GERALD R FORD	5500 44TH ST SE	RCRA-VSQG		TP
A51	FAA AIRWAY FACILITIE	5500 44TH STREET SE	RGA LUST		TP
A52	SIGNATURE FLIGHT GRR	5500 44TH ST	UST		TP
A53	AVIS RENT A CAR SY	5500 44TH STREET SE	RGA LUST		TP
A54	AVIS RENT A CAR SYST	5500 44TH STREET SE	RGA LUST		TP
A55	AVIS RENT-A-CAR SYST	5500 44TH STREET SE	RGA LUST		TP
A56	AVIS RENT A CAR SY	5500 44TH STREET SE	RGA LUST		TP
A57	FAA GRR ASR4	5500 44TH STREET SE	RGA LUST		TP
A58	LANDMARK AVIATION	5500 44TH ST SE	UST, RCRA NonGen / NLR, FINDS, ECHO, AIRS		TP
A59	AVIS RENT-A-CAR SYST	5500 44TH ST SE	RGA LUST		TP
A60	AVIS RENT A CAR	5500 44TH ST.	RGA LUST		TP
A61	BUILDING 106, 5500 4	BUILDING 106, 5500 4	BEA		TP
A62	NORTHERN AIR INC	5500 44TH STREET SE	RGA LUST		TP
A63	BISSELL INC	5500 44TH ST SE	RCRA-VSQG		TP
A64	AMR COMBS - GRAND RA	5500 44TH STREET SE	RGA LUST		TP
A65	HERTZ RENT A CAR (AR	KENT COUNTY INT'L AI	RGA LUST		TP
A66	NORTHERN AIR INC	5500 44TH SREET SE	RGA LUST		TP
A67	NORTHERN AIR INC	5500 44TH ST (GA FAR	RGA LUST		TP
A68	UNITED AIRLINES	5500 44TH ST. SE	RGA LUST		TP
A69	NORTHERN AIR INC	5500 44TH STREET (GA	RGA LUST		TP
A70	LANDMARK AVIATION	5500 44TH ST SE	WDS		TP
A71	AMR COMBS GRAND RAPI	5500 44TH ST SE	RGA LUST		TP
A72	PIEDMONT AIRLINES	5500 44TH ST SE	FINDS, ECHO		TP
A73	DELTA AIR LINES GRAN	5500 44TH ST SE	RCRA NonGen / NLR		TP
A74	ALAMO RENT-A-CAR NAT	5500 44TH SREET SE	RGA LUST		TP
A75	AMR COMBS - GRAND RA	5500 44TH STREET (GA	RGA LUST		TP
A76	AVIS RENT A CAR S	5500 44TH ST SE K	RGA LUST		TP
A77	AVIS RENT A CAR S	5500 44TH ST SE KENT	RGA LUST		TP
B78	FEDERAL EXPRESS CORP	6450 AIR CARGO RD SE	RCRA-VSQG	Lower	684, 0.130, SE

MAPPED SITES SUMMARY

Target Property Address:
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
B79	FEDERAL EXPRESS CORP	6450 AIR CARGO RD SE	RCRA-VSQG, FINDS, ECHO	Lower	684, 0.130, SE
C80	THORNAPPLE ENTERPRIS	4190 THORNAPPLE RIVE	UST	Lower	768, 0.145, ENE
C81	THRONAPPLE ENTERPRIS	4190 THORNAPPLE RIVE	LUST, INVENTORY	Lower	768, 0.145, ENE
82	4211 CASSARD LANE, G	4211 CASSARD LANE	INVENTORY, BEA	Lower	1515, 0.287, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
HERTZ RENT A CAR 5500 44TH SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-034246	N/A
KENT COUNTY INTL AIR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 5-001162	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
HERTZ RENT-A-CAR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
KENT COUNTY (CFR) 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 4115	N/A
KENT COUNTY DEPT OF 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 40196 Facility ID: 0-040196 Facility ID: 00040196	N/A
KENT COUNTY INTERNAT 5500 44TH ST. GRAND RAPIDS, MI	RGA LUST	N/A
KENT COUNTY MAINTENA 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-004115 Facility ID: 00004115	N/A

EXECUTIVE SUMMARY

Facility ID: 4115

KENT COUNTY MAINTENA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-004115	N/A
KENT CO. INTERNATION 5500 44TH ST. SE GRAND RAPIDS, MI	RGA LUST	N/A
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	AIRS State Registration Id: N6948	N/A
SIGNATURE FLIGHT-GRR 5500 44TH STREET SE GRAND RAPIDS, MI 49512	Financial Assurance Database: FINANCIAL ASSURANCE 3, Date of Government Version: 12/20/2021	N/A
GERALD R. FORD INTER 5500 44TH STREET; SE GRAND RAPIDS, MI 49512	INVENTORY Facility ID: 41001285	N/A
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	AIRS State Registration Id: N6958	N/A
SMITHS INDUSTRIES 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985574193	MID985574193
BISSELL INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110043412606 ECHO Registry ID: 110043412606	N/A
TSA - GERALD R FORD 5500 44TH STREET SE GRAND RAPIDS, MI 49512	ICIS FRS ID:: 110017871784 FINDS Registry ID:: 110017871784 ECHO	N/A

EXECUTIVE SUMMARY

	Registry ID: 110017871784	
KENT CT DEPT /AERONA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 40196	N/A
CONTINENTAL EXPRESS 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985641703	MID985641703
FEDERAL EXPRESS CORP 5500 44TH ST SE KENTWOOD, MI 49512	RCRA NonGen / NLR EPA ID:: MID985603919 FINDS Registry ID:: 110003651842 ECHO Registry ID: 110003651842	MID985603919
KENT COUNTY DEPT OF 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 40196	N/A
HERTZ CAR RENTAL 5500 44TH ST SE GRAND RAPIDS, MI 49512	AUL Facility ID: 00016452 Facility ID: 00034246 WDS Site Id: MIK392845467 Site Id: MID985567411 Site Id: MID985574193 Site Id: MID985581321 Site Id: MID985603919 **Additional key fields are available in the Map Findings section* WMD Id: 489106 WMD Id: 401895 WMD Id: 402325 WMD Id: 402989 WMD Id: 404365 **Additional key fields are available in the Map Findings section* PFAS	N/A
AMR COMBS GRAND RAPI 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Release Status: Open Substance Release: Other Substance Release: Used Oil Substance Release: Unknown Facility Id: 00018301 UST Database: UST, Date of Government Version: 10/01/2021	N/A

	Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00018301	
5500 44TH ST 5500 44TH ST GRAND RAPIDS, MI	HMIRS	N/A
BUILDING 106, 5500 4 BUILDING 106, 5500 4 GRAND RAPIDS, MI 49512	BEA	N/A
LANDMARK AVIATION 5500 44TH ST GRAND RAPIDS, MI 49512	AST Facility Id: 91084239 Tank Status: Currently In Use	N/A
ENVOY AIR INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK668647779 FINDS Registry ID:: 110008456759 Registry ID:: 110013364091 Registry ID:: 110003670849 Registry ID:: 110009600805 Registry ID:: 110009600994 ECHO Registry ID: 110009600994 Registry ID: 110003670849 Registry ID: 110009600805 Registry ID: 110008456759 Registry ID: 110013364091	MIK668647779
INDEPENDENCE RECYCLI 5500 44TH STREET SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110021108772	N/A
BUILDING 106, 5500 4 BUILDING 106; 5500 4 KENT (County), MI 49512	INVENTORY Facility ID: 41002271	N/A
KENT CT DEPT /AERONA 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Facility Id: 00040196 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Currently In Use	N/A

	Tank Status: Removed from Ground Facility Type: ACTIVE Facility Id: 00040196 INVENTORY Facility ID: 40196	
LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK857313202	MIK857313202
SIGNATURE FLIGHT-GRR 5500 44TH STREET SE GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00033129	N/A
ENVOY AIR INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MIK743613739	MIK743613739
KENT COUNTY INTERNAT 5500 44TH STREET, SE GRAND RAPIDS, MI 49512	PRP	N/A
HERTZ RENT A CAR (AR 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Facility Id: 00034246 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00034246 INVENTORY Facility ID: 34246 NPDES Permit Number: MI0055735 Permit Number: MIR116870	N/A
AVIS RENT A CAR SYST 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Substance Release: Gasoline Facility Id: 00016452 UST Database: UST, Date of Government Version: 10/01/2021	N/A

	Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00016452 INVENTORY Facility ID: 16452	
FAA GRR ASR4 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Substance Release: Diesel Facility Id: 00013884 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00013884 INVENTORY Facility ID: 13884	N/A
FAST DELIVERY INC HA 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MID985567411	MID985567411
UNITED AIRLINES 5500 44TH ST GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00039157	N/A
5500 44TH STREET SE 5500 44TH STREET SE GRAND RAPIDS, MI 49512	ERNS NRC Report #: 849493 Incident Date Time: 2007-09-21 10:30:00	N/A
KENT COUNTY (CFR) 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Closed Substance Release: Other Substance Release: Unknown Facility Id: 00015000 Facility Id: 00018302 INVENTORY Facility ID: 18301 Facility ID: 18302 Facility ID: 4115 Facility ID: 15000 SPILLS BEA Financial Assurance Database: FINANCIAL ASSURANCE 3, Date of Government Version: 12/20/2021 WDS	N/A

EXECUTIVE SUMMARY

	Site Id: MIK289887432 WMD Id: 477398	
KENT COUNTY (CFR) 5500 44TH ST GRAND RAPIDS, MI 49512	LUST Release Status: Open Facility Id: 00004115 UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00004115	N/A
NORTHERN AIR INC 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 00015000 Facility ID: 15000 Facility ID: 0-015000	N/A
AVIS RENT-A-CAR 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-016452	N/A
FAA AIRWAY FACILITIE 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-013884	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 00034246 Facility ID: 34246	N/A
FAA GRR ASR4 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 00013884 Facility ID: 13884 Facility ID: 0-013884	N/A
5500 44TH STREET SE, 5500 44TH STREET SE, GRAND RAPIDS, MI	SPILLS	N/A
TSA - GERALD R FORD 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK289887432	MIK289887432
FAA AIRWAY FACILITIE 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST	N/A

Facility ID: 0-013884

SIGNATURE FLIGHT GRR 5500 44TH ST GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Removed from Ground Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00018302	N/A
AVIS RENT A CAR SY 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
AVIS RENT A CAR SYST 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
AVIS RENT-A-CAR SYST 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-016452	N/A
AVIS RENT A CAR SY 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
FAA GRR ASR4 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-013884	N/A
LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	UST Database: UST, Date of Government Version: 10/01/2021 Tank Status: Currently In Use Facility Type: ACTIVE Facility Id: 00015000 RCRA NonGen / NLR EPA ID:: MID062226998 FINDS Registry ID:: 110009598015 ECHO Registry ID: 110009598015 AIRS	MID062226998

EXECUTIVE SUMMARY

State Registration Id: N2692

AVIS RENT-A-CAR SYST 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-016452	N/A
AVIS RENT A CAR 5500 44TH ST. GRAND RAPIDS, MI	RGA LUST	N/A
BUILDING 106, 5500 4 BUILDING 106, 5500 4 KENT (County), MI 49512	BEA	N/A
NORTHERN AIR INC 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-015000	N/A
BISSELL INC 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA-VSQG EPA ID:: MIK392845467	MIK392845467
AMR COMBS - GRAND RA 5500 44TH STREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 0-015000	N/A
HERTZ RENT A CAR (AR KENT COUNTY INT'L AI GRAND RAPIDS, MI	RGA LUST Facility ID: 34246	N/A
NORTHERN AIR INC 5500 44TH SREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 15000	N/A
NORTHERN AIR INC 5500 44TH ST (GA FAR GRAND RAPIDS, MI	RGA LUST Facility ID: 00018302 Facility ID: 18302 Facility ID: 0-018302	N/A
UNITED AIRLINES 5500 44TH ST. SE GRAND RAPIDS, MI	RGA LUST	N/A
NORTHERN AIR INC 5500 44TH STREET (GA GRAND RAPIDS, MI	RGA LUST	N/A

	Facility ID: 0-018302	
LANDMARK AVIATION 5500 44TH ST SE GRAND RAPIDS, MI 49512	WDS Site Id: MIK857313202 Site Id: MID062226998 WMD Id: 493199 WMD Id: 396689	N/A
AMR COMBS GRAND RAPI 5500 44TH ST SE GRAND RAPIDS, MI	RGA LUST Facility ID: 00018301 Facility ID: 18301 Facility ID: 0-018301	N/A
PIEDMONT AIRLINES 5500 44TH ST SE GRAND RAPIDS, MI 49512	FINDS Registry ID:: 110015806831 ECHO Registry ID: 110015806831	N/A
DELTA AIR LINES GRAN 5500 44TH ST SE GRAND RAPIDS, MI 49512	RCRA NonGen / NLR EPA ID:: MID985581321	MID985581321
ALAMO RENT-A-CAR NAT 5500 44TH SREET SE GRAND RAPIDS, MI	RGA LUST Facility ID: 15000	N/A
AMR COMBS - GRAND RA 5500 44TH STREET (GA GRAND RAPIDS, MI	RGA LUST Facility ID: 0-018302	N/A
AVIS RENT A CAR S 5500 44TH ST SE K GRAND RAPIDS, MI	RGA LUST Facility ID: 16452	N/A
AVIS RENT A CAR S 5500 44TH ST SE KENT GRAND RAPIDS, MI	RGA LUST Facility ID: 00016452	N/A

EXECUTIVE SUMMARY

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

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

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

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

Lists of state and tribal registered storage tanks

FEMA UST---------- Underground Storage Tank Listing
INDIAN UST---------- Underground Storage Tanks on Indian Land

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 Brownfield lists

US BROWNFIELDS---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

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

Local Lists of Hazardous waste / Contaminated Sites

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

Local Land Records

LIENS---------- Lien List
LIENS 2---------- CERCLA Lien Information

Other Ascertainable Records

FUDS---------- Formerly Used Defense Sites
DOD---------- Department of Defense Sites

SCRD DRYCLEANERS..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR..... Financial Assurance Information
EPA WATCH LIST..... EPA WATCH LIST
2020 COR ACTION..... 2020 Corrective Action Program List
TSCA..... Toxic Substances Control Act
TRIS..... Toxic Chemical Release Inventory System
SSTS..... Section 7 Tracking Systems
ROD..... Records Of Decision
RMP..... Risk Management Plans
RAATS..... RCRA Administrative Action Tracking System
PADS..... PCB Activity Database System
FTTS..... FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS..... Material Licensing Tracking System
COAL ASH DOE..... Steam-Electric Plant Operation Data
COAL ASH EPA..... Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER..... PCB Transformer Registration Database
RADINFO..... Radiation Information Database
HIST FTTS..... FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS..... Incident and Accident Data
CONSENT..... Superfund (CERCLA) Consent Decrees
INDIAN RESERV..... Indian Reservations
FUSRAP..... Formerly Utilized Sites Remedial Action Program
UMTRA..... Uranium Mill Tailings Sites
LEAD SMELTERS..... Lead Smelter Sites
US AIRS..... Aerometric Information Retrieval System Facility Subsystem
US MINES..... Mines Master Index File
ABANDONED MINES..... Abandoned Mines
UXO..... Unexploded Ordnance Sites
DOCKET HWC..... Hazardous Waste Compliance Docket Listing
FUELS PROGRAM..... EPA Fuels Program Registered Listing
ASBESTOS..... ASBESTOS
COAL ASH..... Coal Ash Disposal Sites
DRYCLEANERS..... Drycleaning Establishments
LEAD..... Lead Safe Housing Registry
UIC..... Underground Injection Wells Database
MINES MRDS..... Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP..... EDR Proprietary Manufactured Gas Plants
EDR Hist Auto..... EDR Exclusive Historical Auto Stations
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

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

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

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

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

STANDARD ENVIRONMENTAL RECORDS

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 02/28/2022 has revealed that there are 2 RCRA-VSQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
FEDERAL EXPRESS CORP EPA ID:: MIR000041392	6450 AIR CARGO RD SE	SE 1/8 - 1/4 (0.130 mi.)	B78	143
FEDERAL EXPRESS CORP EPA ID:: MIK663576650	***6450 AIR CARGO RD SE***	***SE 1/8 - 1/4 (0.130 mi.)***	***B79***	***146***

Lists of state and tribal leaking storage tanks

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the Department of Environmental Quality's Leaking Underground Storage Tank (LUST) Database.

A review of the LUST list, as provided by EDR, and dated 11/08/2021 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THRONAPPLE ENTERPRIS Release Status: Open Substance Release: Diesel,Diesel Facility Id: 00042998 Facility Id: 10000281	***4190 THORNAPPLE RIVE***	***ENE 1/8 - 1/4 (0.145 mi.)***	***C81***	***151***

Lists of state and tribal registered storage tanks

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

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

Lower Elevation	Address	Direction / Distance	Map ID	Page
THORNAPPLE ENTERPRIS	4190 THORNAPPLE RIVE	ENE 1/8 - 1/4 (0.145 mi.)	C80	149
Database: UST, Date of Government Version: 10/01/2021				
Tank Status: Removed from Ground				
Facility Type: Removed from Ground				
Facility Id: 10000281				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

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

A review of the INVENTORY list, as provided by EDR, and dated 01/19/2022 has revealed that there are 2 INVENTORY sites within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
THRONAPPLE ENTERPRIS	***4190 THORNAPPLE RIVE***	***ENE 1/8 - 1/4 (0.145 mi.)***	***C81***	***151***
Facility ID: 10000281				
4211 CASSARD LANE, G	***4211 CASSARD LANE***	***W 1/4 - 1/2 (0.287 mi.)***	***82***	***152***
Facility ID: 41002299				

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 04/04/2022 has revealed that there is 1 BEA site within approximately 0.5 miles of the target property.

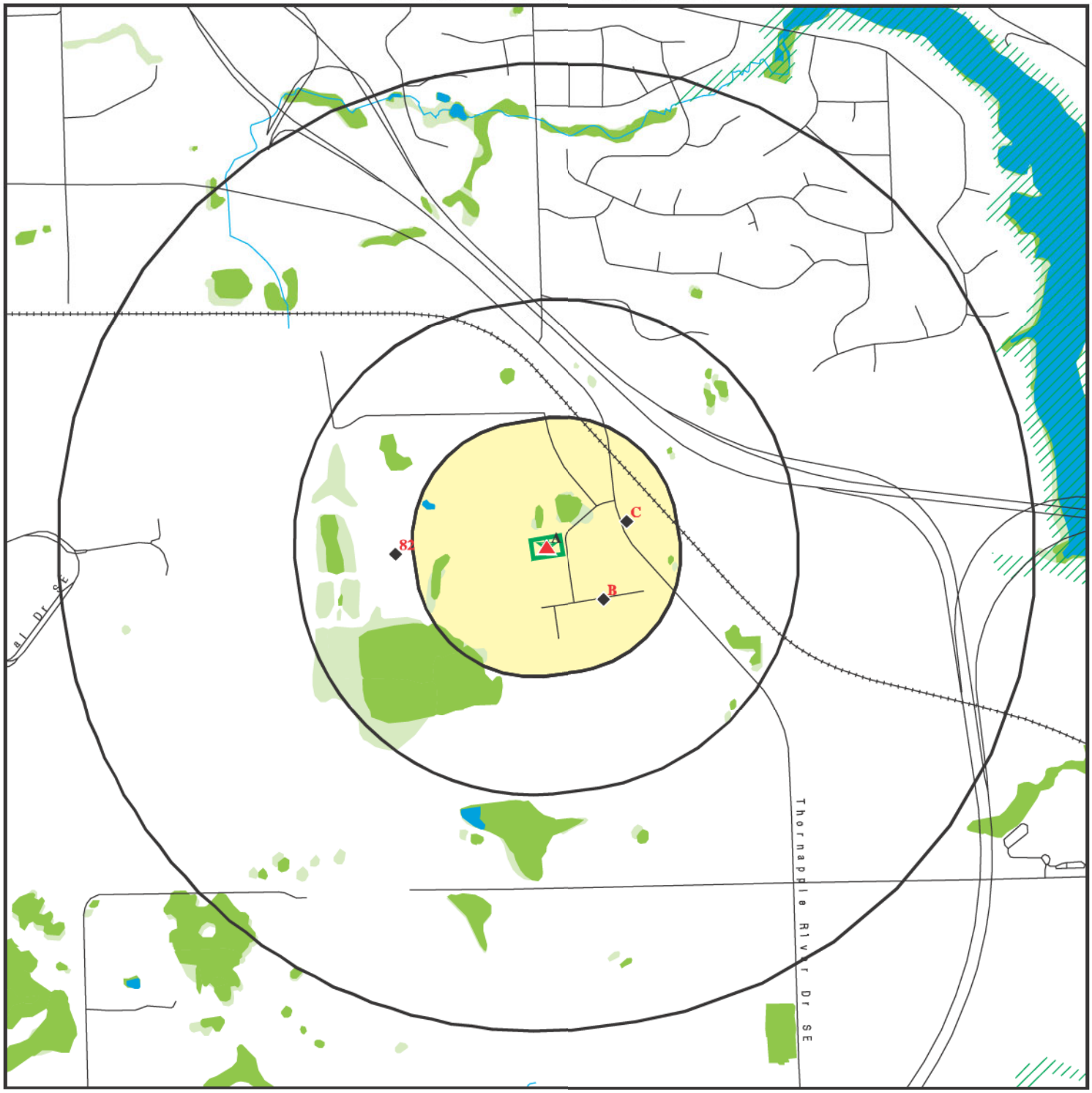
Lower Elevation	Address	Direction / Distance	Map ID	Page
4211 CASSARD LANE, G	*4211 CASSARD LANE*	*W 1/4 - 1/2 (0.287 mi.)*	*82*	*152*

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 1 records.

Site Name	Database(s)
	CDL

OVERVIEW MAP - 6946680.2S



0 1/4 1/2 1 Miles

- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 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:	5500 44th Street SE	CLIENT:	BLDI Consultants
ADDRESS:	5500 44th Street SE Grand Rapids MI 49512	CONTACT:	Ashley Plocharczyk
		INQUIRY #:	6946680.2s
LAT/LONG:	42.887277 / 85.509049	DATE:	April 19, 2022 3:34 pm

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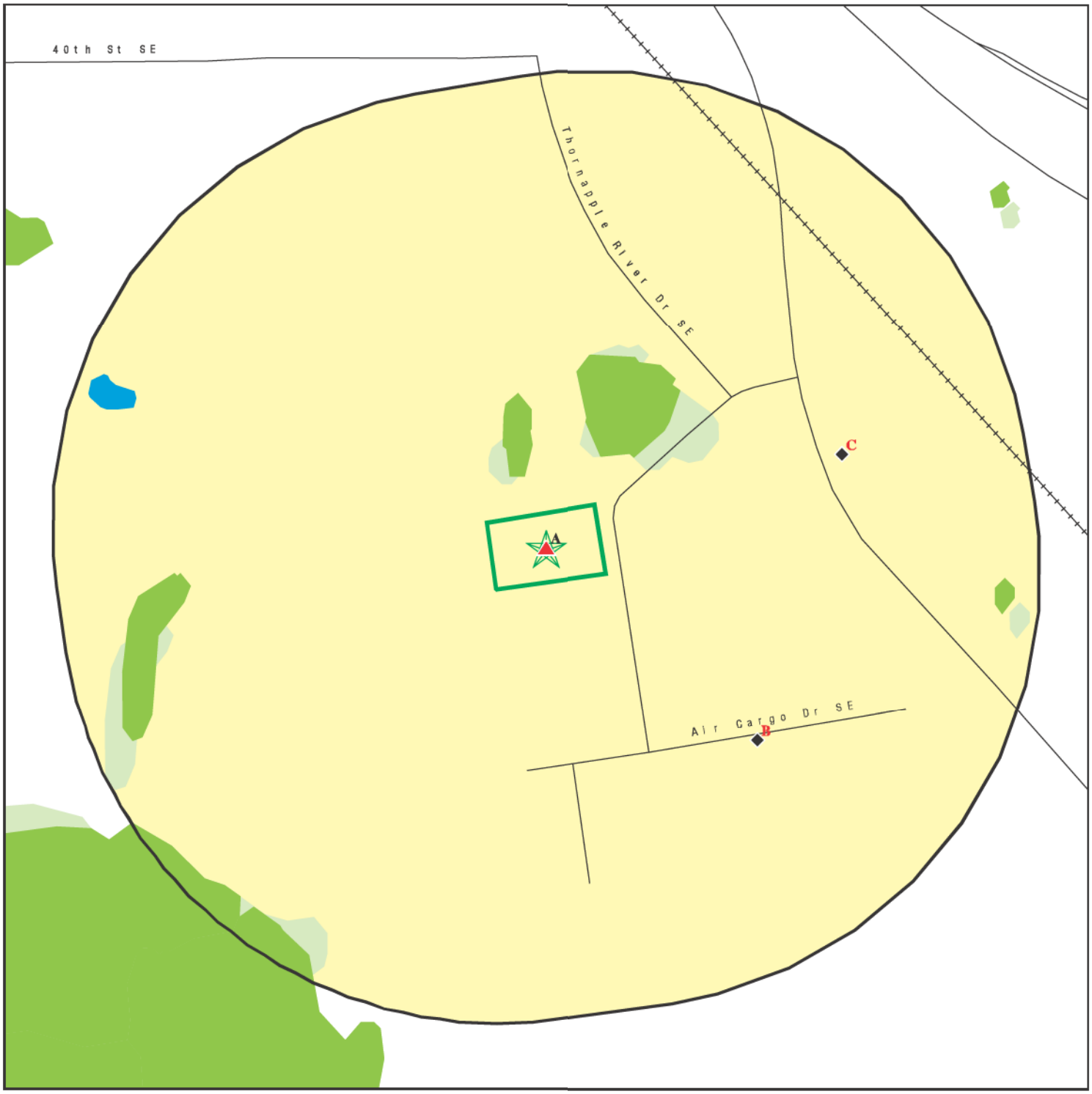
DETAIL MAP - 6946680.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites

0 1/16 1/8 1/4 Miles

- 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: 5500 44th Street SE	CLIENT: BLDI Consultants
ADDRESS: 5500 44th Street SE Grand Rapids MI 49512	CONTACT: Ashley Plocharczyk INQUIRY #: 6946680.2s
LAT/LONG: 42.887277 / 85.509049	DATE: April 19, 2022 3:35 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Lists of Federal NPL (Superfund) sites								
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
Lists of Federal Delisted NPL sites								
Delisted NPL	1.000		0	0	0	0	NR	0
Lists of Federal sites subject to CERCLA removals and CERCLA orders								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Lists of Federal CERCLA sites with NFRAP								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA facilities undergoing Corrective Action								
CORRACTS	1.000		0	0	0	0	NR	0
Lists of Federal RCRA TSD facilities								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Lists of Federal RCRA generators								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250	5	0	2	NR	NR	NR	7
Federal institutional controls / engineering controls registries								
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
Federal ERNS list								
ERNS	0.001	1	0	NR	NR	NR	NR	1
Lists of state- and tribal hazardous waste facilities								
SHWS	1.000		0	0	0	0	NR	0
Lists of state and tribal landfills and solid waste disposal facilities								
SWF/LF	0.500		0	0	0	NR	NR	0
Lists of state and tribal leaking storage tanks								
LUST	0.500	7	0	1	0	NR	NR	8

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
Lists of state and tribal registered storage tanks								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250	10	0	1	NR	NR	NR	11
AST	0.250	1	0	0	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
AUL	0.500	1	0	0	0	NR	NR	1
Lists of state and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
Lists of state and tribal brownfield sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
SWRCY	0.500		0	0	0	NR	NR	0
HIST LF	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
PART 201	1.000		0	0	0	0	NR	0
INVENTORY	0.500	7	0	1	1	NR	NR	9
CDL	0.001		0	NR	NR	NR	NR	0
DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500	1	0	0	0	NR	NR	1
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0
LIENS 2	0.001		0	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001	1	0	NR	NR	NR	NR	1
SPILLS	0.001	2	0	NR	NR	NR	NR	2
Other Ascertainable Records								
RCRA NonGen / NLR	0.250	6	0	0	NR	NR	NR	6

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	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001	1	0	NR	NR	NR	NR	1
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001	1	0	NR	NR	NR	NR	1
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	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	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	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
FINDS	0.001	7	0	NR	NR	NR	NR	7
ECHO	0.001	6	0	NR	NR	NR	NR	6
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
AIRS	0.001	3	0	NR	NR	NR	NR	3
ASBESTOS	0.001		0	NR	NR	NR	NR	0
BEA	0.500	3	0	0	1	NR	NR	4
COAL ASH	0.500		0	0	0	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
Financial Assurance	0.001	2	0	NR	NR	NR	NR	2
LEAD	0.001		0	NR	NR	NR	NR	0
NPDES	0.001	1	0	NR	NR	NR	NR	1
UIC	0.001		0	NR	NR	NR	NR	0
WDS	0.001	3	0	NR	NR	NR	NR	3
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	0	0	0	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
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA PART 201	0.001		0	NR	NR	NR	NR	0
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001	38	0	NR	NR	NR	NR	38
- Totals --		107	0	5	2	0	0	114

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **HERTZ RENT A CAR** **RGA LUST** **S115679442**
Target **5500 44TH SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 1 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1999	HERTZ RENT A CAR	5500 44TH SE
1998	HERTZ RENT A CAR	5500 44TH SE
1997	HERTZ RENT A CAR	5500 44TH SE

A2 **KENT COUNTY INTL AIRPORT** **RGA LUST** **S115681998**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 2 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2000	KENT COUNTY INTL AIRPORT	5500 44TH ST SE
1999	KENT COUNTY INTL AIRPORT	5500 44TH ST SE
1998	KENT COUNTY INTL AIRPORT	5500 44TH ST SE
1997	KENT COUNTY INTL AIRPORT	5500 44TH ST SE

A3 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679433**
Target **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)** **N/A**
Property **GRAND RAPIDS, MI**

Site 3 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2010	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)
2009	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)

A4 **HERTZ RENT-A-CAR** **RGA LUST** **S115679448**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 4 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1991	HERTZ RENT-A-CAR	5500 44TH ST SE

A5 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679432**
Target **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)** **N/A**
Property **GRAND RAPIDS, MI**

Site 5 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2006	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)
2005	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLYY)

A6 **KENT COUNTY (CFR)** **RGA LUST** **S115681987**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 6 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2012	KENT COUNTY (CFR)	5500 44TH STREET SE
2011	KENT COUNTY (CFR)	5500 44TH STREET SE
2010	KENT COUNTY (CFR)	5500 44TH STREET SE

A7 **KENT COUNTY DEPT OF AERONAUTICS** **RGA LUST** **S115681989**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 7 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2004	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE
2003	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE
2001	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH ST SE

A8 **KENT COUNTY INTERNATIONAL AIRP** **RGA LUST** **S115681994**
Target **5500 44TH ST.** **N/A**
Property **GRAND RAPIDS, MI**

Site 8 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1991	KENT COUNTY INTERNATIONAL AIRP	5500 44TH ST.

A9 **KENT COUNTY MAINTENANCE DEPT** **RGA LUST** **S115681999**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 9 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2009	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2008	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2007	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2006	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2005	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2004	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2003	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
2001	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
1999	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
1998	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE
1997	KENT COUNTY MAINTENANCE DEPT	5500 44TH ST SE

A10 **KENT COUNTY MAINTENANCE DEPT** **RGA LUST** **S115682000**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 10 of 77 in cluster A

Actual: 787 ft.
RGA LUST:
2000 KENT COUNTY MAINTENANCE DEPT 5500 44TH STREET SE

A11 **KENT CO. INTERNATIONAL AIRPORT** **RGA LUST** **S115681982**
Target Property **5500 44TH ST. SE** **N/A**
GRAND RAPIDS, MI

Site 11 of 77 in cluster A

Actual: 787 ft.
RGA LUST:
1991 KENT CO. INTERNATIONAL AIRPORT 5500 44TH ST. SE

A12 **INDEPENDENCE RECYCLING, INC** **AIRS** **S121720801**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI 49512

Site 12 of 77 in cluster A

Actual: 787 ft.
AIRS:

Name:	INDEPENDENCE RECYCLING, INC
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
State Registration Number:	N6948
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	BRIAN LOGUE
Contact Phone:	2165240999
Contact Address:	5531 CANAL ROAD
Contact City,St,Zip:	INDEPENDENCE, OH 44125
Permit Number:	134-01
Date Received:	04/05/2001
Application Reason:	GENERAL PTI - NON-METALLIC MINERAL CRUSHER
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	InActive
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported

INDEPENDENCE RECYCLING, INC (Continued) **S121720801**

Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported
Federal Employer Id Number:	Not reported
# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A13
Target Property

SIGNATURE FLIGHT-GRR-A FACILITY
5500 44TH STREET SE 5460 44TH STR
GRAND RAPIDS, MI 49512

Financial Assurance **S118615576**
N/A

Site 13 of 77 in cluster A

Actual:
787 ft.

FINANCIAL ASSURANCE 3:

Name:	SIGNATURE FLIGHT-GRR-A FACILITY
Address:	5500 44TH STREET SE 5460 44TH STR
City,State,Zip:	GRAND RAPIDS, MI 49512
Facility ID:	00033129
Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

A14
Target Property

GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)
5500 44TH STREET; SE
GRAND RAPIDS, MI 49512

INVENTORY **S125156355**
N/A

Site 14 of 77 in cluster A

Actual:
787 ft.

INVENTORY:

Name:	GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)
Address:	5500 44TH STREET; SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Cascade
District:	Grand Rapids
Data Source:	Risks Present and Immediate

GERALD R. FORD INTERNATIONAL AIRPORT (GFIA) (Continued) **S125156355**

Location ID: 40310
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Assmann, Aaron
Latitude: 42.89244465
Longitude: -85.51377124

A15 **INDEPENDENCE RECYCLING, INC** **AIRS** **S121720808**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 15 of 77 in cluster A

Actual: **787 ft.**

AIRS:

Name:	INDEPENDENCE RECYCLING, INC
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
State Registration Number:	N6958
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	BRIAN LOGUE
Contact Phone:	2165240999
Contact Address:	5531 CANAL ROAD
Contact City,St,Zip:	INDEPENDENCE, OH 44125
Permit Number:	74-01
Date Received:	02/07/2001
Application Reason:	GENERAL PTI - NON-METALLIC MINERAL CRUSHER
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported
SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	InActive
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported
Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported

INDEPENDENCE RECYCLING, INC (Continued) **S121720808**

Federal Employer Id Number:	Not reported
# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A16 **SMITHS INDUSTRIES** **RCRA NonGen / NLR** **1000410053**
Target **5500 44TH ST SE** **MID985574193**
Property **GRAND RAPIDS, MI 49512**

Site 16 of 77 in cluster A

Actual:
787 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		19951113
Handler Name:	SMITHS INDUSTRIES	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MID985574193
Contact Name:		CHARLES ULMER
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-241-7144
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		4141 EASTERN AVE SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49508
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		NN

SMITHS INDUSTRIES (Continued) **1000410053**

Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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

SMITHS INDUSTRIES (Continued) **1000410053**

Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	19951201
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:	19951113
Handler Name: SMITHS INDUSTRIES	
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19891204
Handler Name: SMITHS INDUSTRIES	
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

SMITHS INDUSTRIES (Continued) **1000410053**

Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	11131
NAICS Description:	ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported

SMITHS INDUSTRIES (Continued) **1000410053**

Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A17 **BISSELL INC** **FINDS** **1014729288**
Target **5500 44TH ST SE** **ECHO** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 17 of 77 in cluster A

Actual: **787 ft.**

FINDS:
Registry ID: 110043412606

Click Here:

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

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

ECHO:

Envid:	1014729288
Registry ID:	110043412606
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110043412606
Name:	BISSELL INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A18 **TSA - GERALD R FORD INTERNATIONAL AIRPORT** **ICIS** **1007451065**
Target **5500 44TH STREET SE** **FINDS** **N/A**
Property **GRAND RAPIDS, MI 49512** **ECHO**

Site 18 of 77 in cluster A

Actual: **787 ft.**

ICIS:

Enforcement Action ID:	MI-49221770408134327
FRS ID:	110017871784
Action Name:	Violation Notice
Facility Name:	GERALD R FORD INTL AIRPORT-GR
Facility Address:	5500 44TH STREET S.E. GRAND RAPIDS, MI 49512
Enforcement Action Type:	Notice of Violation
Facility County:	KENT
Program System Acronym:	NPDES
Enforcement Action Forum Desc:	Administrative - Informal
EA Type Code:	NOV
Facility SIC Code:	3728
Federal Facility ID:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (Continued) **1007451065**

Latitude in Decimal Degrees: 42.870833
Longitude in Decimal Degrees: -85.508333
Permit Type Desc: NPDES Individual Permit
Program System Acronym: MI0055735
Facility NAICS Code: Not reported
Tribal Land Code: Not reported

FINDS:
Registry ID: 110017871784

Click Here:

Environmental Interest/Information System:
US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

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

ECHO:
Envid: 1007451065
Registry ID: 110017871784
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110017871784
Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT
Address: 5500 44TH STREET SE
City,State,Zip: GRAND RAPIDS, MI 49512

A19 Target Property **KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTE** **RGA LUST** **S115682017**
5500 44TH STREET SE **N/A**
GRAND RAPIDS, MI

Site 19 of 77 in cluster A

Actual: 787 ft.

RGA LUST:
2012 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE
2011 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE
2010 KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
5500 44TH STREET SE

A20 **CONTINENTAL EXPRESS GRR** **RCRA NonGen / NLR** **1000691407**
Target **5500 44TH ST SE** **MID985641703**
Property **GRAND RAPIDS, MI 49512**

Site 20 of 77 in cluster A

Actual: **787 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	19951020
Handler Name:	CONTINENTAL EXPRESS GRR
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID985641703
Contact Name:	KATHY KALLISZAK
Contact Address:	5500 44TH ST SE
Contact City,State,Zip:	GRAND RAPIDS, MI 49512
Contact Telephone:	616-956-6356
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	County
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	KENT COUNTY
Owner Type:	County
Operator Name:	KENT COUNTY
Operator Type:	County
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	KENT COUNTY
Legal Status:	County
Date Became Current:	19700101
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:	19951020
Handler Name:	CONTINENTAL EXPRESS GRR
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19920505
Handler Name:	CONTINENTAL EXPRESS GRR
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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

CONTINENTAL EXPRESS GRR (Continued) **1000691407**

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A21 **FEDERAL EXPRESS CORP** **RCRA NonGen / NLR** **1000465750**
Target **5500 44TH ST SE** **FINDS** **MID985603919**
Property **KENTWOOD, MI 49512** **ECHO**

Site 21 of 77 in cluster A

Actual:
787 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		20210830
Handler Name:	FEDERAL EXPRESS CORP	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		KENTWOOD, MI 49512
EPA ID:		MID985603919
Contact Name:		TIMOTHY JACKSON JR
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		901-434-8468
Contact Fax:		Not reported
Contact Email:		TJACKSON4@FEDEX.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Other
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		3620 HACKS CROSS RD
Mailing City,State,Zip:		MEMPHIS, TN 38125
Owner Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:		Private
Operator Name:		NO ACTIVE O/OP AS NOT GENERATING WASTE
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

FEDERAL EXPRESS CORP (Continued) **1000465750**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20210921
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:	Operator
Owner/Operator Name:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

FEDERAL EXPRESS CORP (Continued) **1000465750**

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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20210502
Date Ended Current:	Not reported
Owner/Operator Address:	3620 HACKS CROSS RD
Owner/Operator City,State,Zip:	MEMPHIS, TN 38125-8800
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:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20210502
Date Ended Current:	Not reported
Owner/Operator Address:	3620 HACKS CROSS RD
Owner/Operator City,State,Zip:	MEMPHIS, TN 38125-8800
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:	COUNTY OF KENT DEPT OF AERONAUTIC
Legal Status:	County
Date Became Current:	19700101
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:	19951113
Handler Name: FEDERAL EXPRESS CORP	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator

FEDERAL EXPRESS CORP (Continued) **1000465750**

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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19910115
Handler Name: FEDERAL EXPRESS CORP	
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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20210830
Handler Name: FEDERAL EXPRESS 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:	Yes
Non Storage Recycler Activity:	No
Electronic Manifest Broker:	No

List of NAICS Codes and Descriptions:

NAICS Code:	11131
NAICS Description:	ORANGE GROVES

NAICS Code:	492110
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported

FEDERAL EXPRESS CORP (Continued) **1000465750**

Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951019
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110003651842

Click Here:

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

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

FEDERAL EXPRESS CORP (Continued) **1000465750**

ECHO:

Envid:	1000465750
Registry ID:	110003651842
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003651842
Name:	FEDERAL EXPRESS CORP
Address:	5500 44TH ST SE
City,State,Zip:	KENTWOOD, MI 49512

A22 **KENT COUNTY DEPT OF AERONAUTICS** **RGA LUST** **S115681990**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 22 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2009	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2008	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2007	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2006	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE
2005	KENT COUNTY DEPT OF AERONAUTICS	5500 44TH STREET SE

A23 **HERTZ CAR RENTAL** **AUL** **U003330661**
Target Property **5500 44TH ST SE** **WDS** **N/A**
GRAND RAPIDS, MI 49512 **PFAS**

Site 23 of 77 in cluster A

Actual: 787 ft.

AUL:

Name:	AVIS RENT-A-CAR SYSTEM INC. (G. FORD AIRPORT)
Address:	5500 44TH STREET
City,State,Zip:	GRAND RAPIDS, MI 48508
Status:	Recorded
Site Name:	Not reported
Property:	on-site location
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	04/27/2009
Legal Description Of Property:	Migrated
Based On The Deq Ref #:	11121307072
MDEQ Reference Number:	RC-RRD-213-07-072
Property Or Description Restricted Area:	Migrated
Lead Division:	STD
File Name Of Hyperlinked Legal Doc:	U:\\Kermit\\11121307072.pdf
Mapped Polygons Area In Acres:	7.7731000000000003
Mapped Polygons Area In Square Miles:	0.0121
Date Data Entry Started:	04/27/2009
Date Data Entry Finished:	04/27/2009
Individual Or Staff Assoc With The Mapping:	Nicholas Ekel
Program Used To Map Restricted Features:	ArcINFO 9.3 & IcoMAP 4.0
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	12/07/2007
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	0
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	0

HERTZ CAR RENTAL (Continued) **U003330661**

Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	1
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0
Excavation And Soil Movement Restrictions:	0
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	0
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	Request received on 8/30/2007. Avis Rent-A-Car System Inc. (G. Ford Airport). 12/27/07, recorded copy received.
Map Comments:	Avis Rent-A-Car System Inc. (G. Ford Airport). This Restriction is NOT mapped in Kermit as of 01232008. The acreage and square mile calculation is for MDEQ Reference numbers RC-RRD-213-07-072, 073, 074, and 075. Only RC-RRD-213-07-072 contains the acre

Name:	HERTZ RENT-A-CAR (G. FORD AIRPORT)
Address:	5500 44TH STREET
City,State,Zip:	GRAND RAPIDS, MI 48512
Status:	Recorded
Site Name:	Not reported
Property:	Hertz Rent-A-Car (G. Ford Airport)
Land Use Restriction Type:	RC
Program Type:	Part 213
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	04/27/2009
Legal Description Of Property:	Migrated
Based On The Deq Ref #:	11121307074
MDEQ Reference Number:	RC-RRD-213-07-074
Property Or Description Restricted Area:	Migrated
Lead Division:	STD
File Name Of Hyperlinked Legal Doc:	U:\\Kermit\\11121307074.pdf
Mapped Polygons Area In Acres:	7.7731000000000003
Mapped Polygons Area In Square Miles:	0.0121
Date Data Entry Started:	04/27/2009
Date Data Entry Finished:	04/27/2009
Individual Or Staff Assoc With The Mapping:	Nicholas Swartz
Program Used To Map Restricted Features:	ArcInfo 9.3 and IcoMap 4.2
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	12/07/2007
Commercial I Land Use Restriction:	0
Commercial Ii Land Use Restriction:	0
Commercial Iii Land Use Restriction:	0
Commercial Iv Land Use Restriction:	0
Industrial Land Use Restriction:	0
Residential Land Use Restriction:	0
Recreational Land Use Restriction:	0
Multiple Land-Use Restrictions:	0
Site Specific Restrictions:	1
Groundwater Consumption Restrictions:	1
Groundwater Contact Restrictions:	0
Special Well Construction Requirements:	0
Special Building Restrictions:	0

HERTZ CAR RENTAL (Continued) **U003330661**

Excavation And Soil Movement Restrictions:	0
Soil Movement Requirements:	0
There Is A Restriction On All Construction:	0
Monitoring Well Protected, No Tampering Or Removal:	0
There Is An Exposure Barrier In Place:	0
There Is A Health And Safety Plan:	0
There Is A Permanent Marker On The Site:	0
Comment:	Request received on 8/30/2007
Map Comments:	Restriction is NOT mapped in Kermit as of 01232008. Acreage and square mile calculation is ERNIE under RC-RRD-213-07-072 20090427 - LUR is mapped in KERMIT under RC-RRD-213-07-072 - Nick Ekel 20100402 - Mapped as separate polygon - Nick Swartz

WDS:

Name:	BISSELL INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK392845467
WMD Id:	489106
Site Specific Name:	BISSELL CORPORATE HANGER
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	FAST DELIVERY INC HANGAR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID985567411
WMD Id:	401895
Site Specific Name:	FAST DELIVERY INC HANGAR
Mailing Address:	3144 BROADMOOR AVE SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	SMITHS INDUSTRIES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID985574193
WMD Id:	402325
Site Specific Name:	SMITHS INDUSTRIES HANGAR
Mailing Address:	4141 EASTERN AVE SE
Mailing City/State/Zip:	49508
Mailing County:	KENT

Name:	DELTA AIR LINES GRAND RAPIDS
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID985581321
WMD Id:	402989
Site Specific Name:	DELTA AIR LINES GRAND RAPIDS
Mailing Address:	DEPT 594 ATLANTA INTL AIRPORT
Mailing City/State/Zip:	30320
Mailing County:	Not reported

Name:	FEDERAL EXPRESS CORP
Address:	5500 44TH ST SE
City,State,Zip:	KENTWOOD, MI 49512

HERTZ CAR RENTAL (Continued) **U003330661**

Site Id: MID985603919
WMD Id: 404365
Site Specific Name: FEDERAL EXPRESS CORP
Mailing Address: 3620 HACKS CROSS RD
Mailing City/State/Zip: 38125
Mailing County: Not reported

Name: CONTINENTAL EXPRESS GRR
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MID985641703
WMD Id: 407131
Site Specific Name: CONTINENTAL EXPRESS GRR
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: NATIONAL CAR RENTAL
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000039732
WMD Id: 418185
Site Specific Name: NATIONAL CAR RENTAL
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: NORTHWEST AIRLINES INC
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000059015
WMD Id: 424678
Site Specific Name: NORTHWEST AIRLINES
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: DELIVERY SERVICES
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000058165
WMD Id: 425774
Site Specific Name: DELIVERY SERVICES
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

Name: DYNAIR SERVICES
Address: 5500 44TH ST SE
City,State,Zip: GRAND RAPIDS, MI 49512
Site Id: MIG000042429
WMD Id: 442273
Site Specific Name: DYNAIR SERVICES
Mailing Address: 5500 44TH ST SE
Mailing City/State/Zip: 49512
Mailing County: KENT

HERTZ CAR RENTAL (Continued) **U003330661**

Name:	US DEPT/TRANSPORTATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIG000042538
WMD Id:	442303
Site Specific Name:	FAA
Mailing Address:	8808 BECK RD
Mailing City/State/Zip:	48111
Mailing County:	WAYNE

Name:	HERTZ CAR RENTAL
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIG000035066
WMD Id:	445794
Site Specific Name:	HERTZ CAR RENTAL
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	BUDGET RENT A CAR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIG000026908
WMD Id:	449482
Site Specific Name:	BUDGET RENT A CAR
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	AVIS CAR RENTAL
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIG000026296
WMD Id:	449991
Site Specific Name:	AVIS CAR RENTAL
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	PIEDMONT AIRLINES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK668647779
WMD Id:	469413
Site Specific Name:	PIEDMONT AIRLINES
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	ENVOY AIR INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK743613739
WMD Id:	469780
Site Specific Name:	ENVOY AIR INC
Mailing Address:	5500 44TH ST SE

HERTZ CAR RENTAL (Continued) **U003330661**

Mailing City/State/Zip: 49512
Mailing County: KENT

PFAS:
Name: GERALD R. FORD INTERNATIONAL AIRPORT
Address: 5500 44TH STREET SW
City,State,Zip: GRAND RAPIDS, MI 49512
Latitude: 42.886180000000003
Longitude: -85.524636000000001
Hyperlink: https://www.michigan.gov/pfasresponse/0,9038,7-365-86511_82704-487698--,00.html
Residential Wells Sampled: Yes
Site Lead: Aaron Assmann
Site Lead Email: AssmannA@Michigan.gov
Site Lead Phone: 616-430-5275
Category: Site
Type: Airport

A24 **AMR COMBS GRAND RAPIDS INC** **LUST U004246221**
Target **5500 44TH ST** **UST N/A**
Property **GRAND RAPIDS, MI 49512**

Site 24 of 77 in cluster A

Actual:
787 ft.

LUST:
Name: AMR COMBS GRAND RAPIDS INC
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512-
Facility ID: 00018301
Source: STATE OF MICHIGAN
Owner Name: NorthernAir Inc
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Grand Rapids
Site Name: Amr Combs
Latitude: 42.88710
Longitude: -85.53001
Date of Collection: 01/11/2001
Method of Collection: Address Matching-House Number
Accuracy: 100
Accuracy Value Unit: FEET
Horizontal Data: NAD83
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Regulatory Program: Not reported
Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1045-92
Release Date: 06/22/1992
Substance Released: Used Oil
Release Status: Closed

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Release Closed Date: 09/19/1994

Leak Number: C-1446-94
Release Date: 11/29/1994
Substance Released: Other
Release Status: Closed
Release Closed Date: 01/10/1997

Leak Number: C-2127-91
Release Date: 10/10/1991
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:
Name: AMR COMBS GRAND RAPIDS INC
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS 49512-4055
Facility Type: CLOSED
Facility ID: 00018301
Owner Name: NORTHERN AIR INC
Owner Address: PO BOX 888380
Owner City: GRAND RAPIDS
Owner State: MI
Owner Zip: 49588-8380
Owner Contact: Not reported
Owner Phone: 6163364707
Contact: CHRISTOPHER REED
Contact Phone: (616) 336-4707
Date of Collection: 01/11/2001
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)
Method of Collection: Address Matching-House Number
District: Region 3 - Grand Rapids District Office
Tank ID: 4
Capacity: 250
Tank Status: Removed from Ground
Substance: Used Oil
Install Date: Not reported
Remove Date: 08/04/1992
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 42.88710
Longitude: -85.53001

Name: AMR COMBS GRAND RAPIDS INC
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS 49512-4055

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Facility Type:	CLOSED
Facility ID:	00018301
Owner Name:	NORTHERN AIR INC
Owner Address:	PO BOX 888380
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49588-8380
Owner Contact:	Not reported
Owner Phone:	6163364707
Contact:	CHRISTOPHER REED
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	16000
Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	05/06/1963
Remove Date:	10/28/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	AMR COMBS GRAND RAPIDS INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00018301
Owner Name:	NORTHERN AIR INC
Owner Address:	PO BOX 888380
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49588-8380
Owner Contact:	Not reported
Owner Phone:	6163364707
Contact:	CHRISTOPHER REED
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT

AMR COMBS GRAND RAPIDS INC (Continued) **U004246221**

Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	16000
Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	05/06/1963
Remove Date:	10/28/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

A25 **HMIRS** **9998090936**
Target Property **5500 44TH ST** **N/A**
GRAND RAPIDS, MI

Site 25 of 77 in cluster A

Actual: **787 ft.**

HMIRS:

Report #:	1998090936
Site location:	5500 44TH ST GRAND RAPIDS, MI
Place of origin:	1855 ESTES AVE ELK GROVE, IL 60007
Destination:	EMBOSSING PRINTERS INC 4956 WAYNE ROAD BATTLE CREEK, MI 49015
Carrier ID:	13324
Carrier reporting #:	Not reported
Carrier:	FEDERAL EXPRESS CORP
Carrier address:	2900 BUSINESS PARK BLDG C MEMPHIS, TN 38118
Shipper ID:	41599
Shipper name:	VIDEOJET INK SOURCE
Shipper address:	1855 ESTES AVE ELK GROVE, IL 60007
Shipping paper number:	402-4137-1955 0
Consignee ID:	80350
Consignee name:	EMBOSSING PRINTERS INC
Consignee addess:	4956 WAYNE ROAD BATTLE CREEK, MI 49015
General cause:	10
Transportation mode:	Not reported
Date:	08/28/98
Commodity name:	PRINTING INK FLAMMABLE
Trade name:	Not reported
Amount:	0.01 GAL
Result:	Spillage
Hazard Class:	30
ID Number:	UN1210

(Continued) **9998090936**

Hazardous:	False
R.Q. met:	False
Misc. info:	100 100
Vehicle Type:	Aircraft
Trans. phase:	263
Land use:	272
Community:	281
Accident/Derailment:	False
Estimated speed:	F
Highway type:	999
number of lanes:	0
Number evacuated:	0
Major injuries:	0
Minor injuries:	0
Fatalities:	0
Product loss:	0
Carrier damage:	0
Pvt/Pub damage:	0
Cleanup cost:	0
Other damage:	0
Reported damage:	0
Incident damage:	0

Inner and Outer Container Information:

Container type:	CONT PLS
Container capacity:	0.26
Number failed:	1
Number in shipment:	9
Container gauge:	Not reported
Manufacture's ID:	16222
Manuf. name:	Not reported UNKNOWN, XX
Tank serial #:	Not reported
Label:	Not reported
Registration #:	Not reported
Inspection date:	/ /
Exemption #:	Not reported
Contributing cause:	Dropped
Contributing Object:	Roadway
Contributing failure:	OTHER
Affected side:	Top
Other contributing cause:	Closure
Capacity container code:	Not reported
Number failed code:	Not reported
Shipment code number:	Not reported
Container type:	BOX FBR
Container capacity:	2.63
Number failed:	1
Number in shipment:	1
Container gauge:	Not reported
Manufacture's ID:	16222
Manuf. name:	Not reported UNKNOWN, XX
Tank serial #:	Not reported
Label:	RED
Registration #:	Not reported
Inspection date:	/ /

(Continued) **9998090936**

Exemption #:	Not reported
Contributing cause:	Dropped
Contributing Object:	Roadway
Contributing failure:	NO RESPONSE
Affected side:	NO RESPONSE
Other contributing cause:	NO RESPONSE
Capacity container code:	Not reported
Number failed code:	Not reported
Shipment code number:	Not reported

Remarks:

PACKAGE WAS APPARENTLY DAMAGED DURING THE OFFLOAD SORTING OPERATION. THE FIBERBOARD BOX WAS NOTICED TO HAVE AN ODOR. THE PACKAGE WAS ISOLATED FROM THE OTHERS AND THE SPILL CLEANUP PERSON WAS NOTIFIED. SHIPMENT WAS PLACED INTO A SALVAGE DRUM AND THE SHIPPER WAS CONTACTED TO SEAK DISPOSITION.

A26 **BUILDING 106, 5500 44TH STREET SE** **BEA** **S105966433**
Target Property **BUILDING 106, 5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI 49512

Site 26 of 77 in cluster A

Actual: **787 ft.**

BEA:

Name:	BUILDING 106, 5500 44TH STREET SE
Address:	BUILDING 106, 5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Gerald R Ford International Airport
BEA Number:	1197
District:	Grand Rapids
Date Received:	05/12/2003
Submitter Name:	MIRAC, Inc.
Petition Determination:	No Request
Petition Disclosure:	0
Category:	S
Determination 20107A:	No Request
Reviewer:	colesb
Division Assigned:	STD
Location ID:	Not reported
Submittal Type:	Not reported
Submittal Number:	Not reported
Approval Status:	Not reported
Workflow Status:	Not reported
Date Submitted:	Not reported
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Not reported
Comments:	Not reported
Organization:	Not reported
Contact:	Not reported
Contact Type:	Not reported

A27 **LANDMARK AVIATION** **AST** **A100319826**
Target **5500 44TH ST** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 27 of 77 in cluster A

Actual: **787 ft.**

AST:

Name:	LANDMARK AVIATION
Address:	5500 44TH ST
City:	GRAND RAPIDS
Zip:	49512-4055
Facility ID:	91084239
Owner Name:	PIEDMONT HAWTHORNE AVIATION LLC (DBA) LANDMARK AVIATION
Owner Address:	5500 44TH STREET SE BUILDING 403
Owner City,St,Zip:	GRAND RAPIDS, MI 49512
District:	3
Date of Collection:	01/11/2001
Accuracy:	100 FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Description Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
Horizontal Datum:	NAD83
Latitude:	42.8871050
Longitude:	-85.530011
Tank Id:	ATK-049833-15
Tank Status:	Currently In Use
Capacity (in gallons):	20000
Installation Date:	02/24/2000
Substance Stored:	Other
Removed/Closed Date:	Not reported
Tank Id:	ATK-055675-15
Tank Status:	Currently In Use
Capacity (in gallons):	12000
Installation Date:	02/24/2000
Substance Stored:	Other
Removed/Closed Date:	Not reported

A28 **ENVOY AIR INC** **RCRA-VSQG** **1007099439**
Target **5500 44TH ST SE** **FINDS** **MIK668647779**
Property **GRAND RAPIDS, MI 49512** **ECHO**

Site 28 of 77 in cluster A

Actual: **787 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20020424
Handler Name:	PIEDMONT AIRLINES	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK668647779
Contact Name:		JEFFREY SWANSON
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-233-6310
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported

ENVOY AIR INC (Continued) **1007099439**

EPA Region:	05
Land Type:	Private
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
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	COUNTY OF KENT
Owner Type:	County
Operator Name:	JEFFREY SWANSON/PIEDMONT AIRLINES
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported

ENVOY AIR INC (Continued) **1007099439**

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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	JEFFREY SWANSON/PIEDMONT AIRLINES
Legal Status:	Private
Date Became Current:	20020424
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	20020424
Handler Name: PIEDMONT AIRLINES	
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

ENVOY AIR INC (Continued) **1007099439**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 481111
NAICS Description: SCHEDULED PASSENGER AIR TRANSPORTATION

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

FINDS:
Registry ID: 110013364091

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110008456759

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110009600805

Click Here:

Environmental Interest/Information System:
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.
Registry ID: 110009600994

Click Here:

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

ENVOY AIR INC (Continued) **1007099439**

corrective action activities required under RCRA.

Registry ID: 110003670849

Click Here:

Environmental Interest/Information System:

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

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

ECHO:

Envid:	1007099439
Registry ID:	110009600994
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009600994
Name:	SMITHS INDUSTRIES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

Envid:	1007099439
Registry ID:	110003670849
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003670849
Name:	CONTINENTAL EXPRESS GRR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

Envid:	1007099439
Registry ID:	110009600805
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009600805
Name:	FAST DELIVERY INC HANGAR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

Envid:	1007099439
Registry ID:	110008456759
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008456759
Name:	DELTA AIR LINES GRAND RAPIDS
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

Envid:	1007099439
Registry ID:	110013364091
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110013364091
Name:	ENVOY AIR INC
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A29
Target Property
INDEPENDENCE RECYCLING INC
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

FINDS **1008200095**
N/A

Site 29 of 77 in cluster A

Actual:
787 ft.

FINDS:
Registry ID: 110021108772

Click Here:

Environmental Interest/Information System:
HAZARDOUS AIR POLLUTANT MAJOR

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

A30
Target Property
BUILDING 106, 5500 44TH STREET SE GERALD R FORD IN
BUILDING 106; 5500 44TH STREET SE GERALD; R FORD INTERNATION
KENT (County), MI 49512

INVENTORY **S127818575**
N/A

Site 30 of 77 in cluster A

Actual:
787 ft.

INVENTORY:
Name: BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address: BUILDING 106; 5500 44TH STREET SE GERALD; R FORD INTERNATIONAL AIRPORT
City,State,Zip: MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Not Determined
Location ID: 73064
Lust Name: Not reported
Regulatory Program: 201
Release Status: Not reported
Project Manager: Hendershott, Abigail
Latitude: NaN
Longitude: NaN

A31
Target Property
KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTE
5500 44TH ST
GRAND RAPIDS, MI 49512

LUST **U004246326**
UST **N/A**
INVENTORY

Site 31 of 77 in cluster A

Actual:
787 ft.

LUST:
Name: KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512-
Facility ID: 00040196
Source: STATE OF MICHIGAN
Owner Name: KentCounty Dept of Aeronautics
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA
District: Grand Rapids
Site Name: Kent County International Airpor
Latitude: 42.88710
Longitude: -85.53001

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-1188-89
Release Date:	12/19/1989
Substance Released:	Not reported
Release Status:	Closed
Release Closed Date:	07/23/1992

UST:

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT3
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Latitude:	Not reported
Longitude:	Not reported
Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT2
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Kerosene
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Not reported
Contact Phone:	Not reported

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	NRT1
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	Not reported
Remove Date:	07/06/1976
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Diesel
Install Date:	10/13/1999
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00040196
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	12000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	12/13/1999
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

INVENTORY:

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	48178

KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON) (Continued) **U004246326**

Lust Name: Kent County International Airpor
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

A32 **LANDMARK AVIATION** **RCRA-VSQG** **1016453692**
Target **5500 44TH ST SE** **MIK857313202**
Property **GRAND RAPIDS, MI 49512**

Site 32 of 77 in cluster A

Actual: **787 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20160922
Handler Name:	LANDMARK AVIATION	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK857313202
Contact Name:		DAVID N HORRELL
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		616-336-4735
Contact Fax:		616-949-0732
Contact Email:		DHORRELL@LANDMARKAVIATION.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
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
State District:		Not reported
Mailing Address:		5500 44TH ST SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49512
Owner Name:		LANDMARK AVIATION
Owner Type:		Private
Operator Name:		LANDMARK AVIATION
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---

LANDMARK AVIATION (Continued) **1016453692**

Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20161012
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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

LANDMARK AVIATION (Continued) **1016453692**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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

LANDMARK AVIATION (Continued) **1016453692**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	20160922
Handler Name: LANDMARK AVIATION	
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
Receive Date:	20131126
Handler Name: LANDMARK AVIATION	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20141006
Handler Name: LANDMARK AVIATION	
Federal Waste Generator Description:	Small Quantity Generator

LANDMARK AVIATION (Continued) **1016453692**

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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20150622
Handler Name:	LANDMARK AVIATION
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	48819
NAICS Description:	OTHER SUPPORT ACTIVITIES FOR AIR TRANSPORTATION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A33 **SIGNATURE FLIGHT-GRR-A FACILITY** **UST** **U003866166**
Target **5500 44TH STREET SE 5460 44TH STR** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 33 of 77 in cluster A

Actual: **787 ft.**

UST:

Name:	SIGNATURE FLIGHT-GRR-A FACILITY
Address:	5500 44TH STREET SE 5460 44TH STR
City,State,Zip:	GRAND RAPIDS 49512
Facility Type:	ACTIVE
Facility ID:	00033129
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported

SIGNATURE FLIGHT-GRR-A FACILITY (Continued) **U003866166**

Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	A2
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Other(Jet A Aviation Fuel - Kerosine)
Install Date:	01/01/1981
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT-GRR-A FACILITY
Address:	5500 44TH STREET SE 5460 44TH STR
City,State,Zip:	GRAND RAPIDS 49512
Facility Type:	ACTIVE
Facility ID:	00033129
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	A1
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Other(Jet A Aviation Fuel - Kerosene)
Install Date:	01/01/1981
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported

SIGNATURE FLIGHT-GRR-A FACILITY (Continued) **U003866166**

Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

A34 **ENVOY AIR INC** **RCRA NonGen / NLR** **1006808471**
Target **5500 44TH ST SE** **MIK743613739**
Property **GRAND RAPIDS, MI 49512**

Site 34 of 77 in cluster A

Actual: **787 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		20140602
Handler Name:	ENVOY AIR INC	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK743613739
Contact Name:		JOHN S HANEY
Contact Address:		Not reported
Contact City,State,Zip:		Not reported
Contact Telephone:		817-931-2765
Contact Fax:		Not reported
Contact Email:		JOHN.HANEY@AA.COM
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		5500 44TH ST SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49512
Owner Name:		ENVOY AIR INC
Owner Type:		Private
Operator Name:		ENVOY AIR INC
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 Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported

ENVOY AIR INC (Continued) **1006808471**

Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20140610
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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

ENVOY AIR INC (Continued) **1006808471**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Owner
Owner/Operator Name:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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:	ENVOY AIR INC
Legal Status:	Private
Date Became Current:	20140415
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:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
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:	ENVOY AIR INC
Legal Status:	Private
Date Became Current:	20140415
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:	AMERICAN EAGLE AIRLINES
Legal Status:	Private
Date Became Current:	20020805
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

ENVOY AIR INC (Continued) **1006808471**

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: 20020805
Handler Name: AMERICAN EAGLE AIRLINES
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
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20020805
Handler Name: AMERICAN EAGLE AIRLINES
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
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140602
Handler Name: ENVOY AIR INC
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: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 481111
NAICS Description: SCHEDULED PASSENGER AIR TRANSPORTATION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: State Statute or Regulation
Date Violation was Determined: 20020520
Actual Return to Compliance Date: 20020627
Return to Compliance Qualifier: Documented

ENVOY AIR INC (Continued) **1006808471**

Violation Responsible Agency:	State
Scheduled Compliance Date:	20031231
Enforcement Identifier:	001
Date of Enforcement Action:	20020520
Enforcement Responsible Agency:	State
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	No
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	WRITTEN INFORMAL
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	20020514
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20020627
Scheduled Compliance Date:	20031231
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A35 **KENT COUNTY INTERNAT'L AIRPORT** **PRP** **1026609694**
Target **5500 44TH STREET, SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 35 of 77 in cluster A

Actual: **787 ft.**

PRP:

Name:	KENT COUNTY INTERNAT'L AIRPORT
Address:	5500 44TH STREET, SE
City,State,Zip:	GRAND RAPIDS, MI 49512

KENT COUNTY INTERNAT'L AIRPORT (Continued) **1026609694**

Superfund EPAID:	IND016360265
Superfund Name:	AMERICAN CHEMICAL SERVICE, INC.
Superfund Address:	420 SOUTH COLFAX AVENUE
Superfund City,State,Zip:	GRIFFITH, IN 46319
NPL Status:	Currently on the Final NPL
NPL Status Short Name:	Not reported
Data Type:	SETTLEMENT DATE
Action Date:	9/27/1994
Settlement Code:	AC-2
Settlement:	ADM ORDR
Latitude:	+41.514200
Longitude:	-87.419100

A36 **HERTZ RENT A CAR (AREA #1534-11)** **LUST** **U003330699**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**
NPDES

Site 36 of 77 in cluster A

Actual: **787 ft.**

LUST:

Name:	HERTZ RENT A CAR (AREA #1534-11)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00034246
Source:	STATE OF MICHIGAN
Owner Name:	TheHertz Corp
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Hertz Rental Car, Kent Co Airpor
Latitude:	42.88463
Longitude:	-85.53657
Date of Collection:	01/04/2002
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-0764-89
Release Date:	10/12/1989
Substance Released:	Not reported
Release Status:	Closed
Release Closed Date:	01/25/2008

UST:

Name:	HERTZ RENT A CAR (AREA #1534-11)
Address:	5500 44TH ST

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00034246
Owner Name:	THE HERTZ CORP
Owner Address:	8501 WILLIAMS RD
Owner City:	ESTERO
Owner State:	FL
Owner Zip:	33928
Owner Contact:	Not reported
Owner Phone:	Not reported
Contact:	Susan Pinera
Contact Phone:	(201) 307-2547
Date of Collection:	01/04/2002
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	10000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	01/01/1976
Remove Date:	05/09/2007
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88463
Longitude:	-85.53657

INVENTORY:

Name:	HERTZ RENT A CAR (AREA #1534-11)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	43852
Lust Name:	Hertz Rental Car, Kent Co Airpor
Regulatory Program:	213
Release Status:	Closed
Project Manager:	Walquist, Barrett
Latitude:	42.884638
Longitude:	-85.536579

MI NPDES:

Name:	GERALD R FORD INTL AIRPORT-GR
Address:	5500 44TH ST SE

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

City,State,Zip:	GRAND RAPIDS, MI 49512
Permit Number:	MI0055735
Permitee PO Box:	N
Permitee Email:	Not reported
Issue Date:	04/30/2021
Effective Date:	06/01/2021
Expiration Date:	10/01/2025
Permittee Name:	Gerald R Ford International Airport Authority
Permittee Address:	5500 44TH ST SE
Permittee Addr2:	Not reported
Permittee City,St,Zip:	GRAND RAPIDS, MI 49512
Permit Type:	NPDES Individual Permit
Facility Name 2:	Not reported
Facility Name 3:	Not reported
Facility Name 4:	Not reported
Designed Name:	Gerald R Ford Intl Airport-GR
Latitude:	42.88275068440127
Lat Direction:	N
Lat Type Code:	LAT
Longitude:	-85.52529447631836
Lon Direction:	W
Lon Type Code:	LON
Hydrologic Unit Code:	4050007
Permit Status:	In Effect
COC Permit Category:	Industrial/Commercial
DEQ District Email:	Grand Rapids
DEQ Permit Compliance Manager:	Ryan Grant
DEQ Permit Compliance Manager Email:	grantr3@michigan.gov

Name:	GERALD R FORD INTL AIRPORT-GR
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Permit Number:	MIR116870
Permitee PO Box:	Not reported
Permitee Email:	Not reported
Issue Date:	11/04/2021
Effective Date:	11/04/2021
Expiration Date:	05/01/2022
Permittee Name:	Michelle Baker, Gerald R. Ford International Airport Authority
Permittee Address:	5500 44th St. SE
Permittee Addr2:	Not reported
Permittee City,St,Zip:	Grand Rapids, MI 49512
Permit Type:	NPDES Construction Storm Water Notice of Coverage (NOC)
Facility Name 2:	Not reported
Facility Name 3:	Not reported
Facility Name 4:	Not reported
Designed Name:	Not reported
Latitude:	42.88275068440127
Lat Direction:	Not reported
Lat Type Code:	Not reported
Longitude:	-85.52529447631836
Lon Direction:	Not reported
Lon Type Code:	Not reported
Hydrologic Unit Code:	Not reported
Permit Status:	In Effect
COC Permit Category:	Not reported
DEQ District Email:	Grand Rapids

HERTZ RENT A CAR (AREA #1534-11) (Continued) **U003330699**

DEQ Permit Compliance Manager: Brandie Jacobs Stefanski
DEQ Permit Compliance Manager Email: stefanskib@michigan.gov

A37 **AVIS RENT A CAR SYSTEM INC** **LUST** **U003426020**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**

Site 37 of 77 in cluster A

Actual:
787 ft.

LUST:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00016452
Source:	STATE OF MICHIGAN
Owner Name:	AvisRent A Car System LLC
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Avis Rent-a-car Facility
Latitude:	42.88710
Longitude:	-85.53001
Date of Collection:	01/12/1998
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-0097-07
Release Date:	06/01/2007
Substance Released:	Gasoline
Release Status:	Closed
Release Closed Date:	01/24/2008
Leak Number:	C-2645-90
Release Date:	12/12/1990
Substance Released:	Not reported
Release Status:	Closed
Release Closed Date:	02/16/1999

UST:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00016452
Owner Name:	AVIS RENT A CAR SYSTEM LLC

AVIS RENT A CAR SYSTEM INC (Continued) **U003426020**

Owner Address:	6 SYLVAN WAY/SEPT 29-C93-36
Owner City:	PARSIPPANY
Owner State:	NJ
Owner Zip:	07054
Owner Contact:	Not reported
Owner Phone:	9734963467
Contact:	Michael Koch
Contact Phone:	(616) 949-8260
Date of Collection:	01/12/1998
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	2
Capacity:	12000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	01/11/1991
Remove Date:	05/15/2007
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00016452
Owner Name:	AVIS RENT A CAR SYSTEM LLC
Owner Address:	6 SYLVAN WAY/SEPT 29-C93-36
Owner City:	PARSIPPANY
Owner State:	NJ
Owner Zip:	07054
Owner Contact:	Not reported
Owner Phone:	9734963467
Contact:	Michael Koch
Contact Phone:	(616) 949-8260
Date of Collection:	01/12/1998
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office

AVIS RENT A CAR SYSTEM INC (Continued) **U003426020**

Tank ID:	1
Capacity:	10000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	03/10/1972
Remove Date:	12/04/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88710
Longitude:	-85.53001

INVENTORY:

Name:	AVIS RENT A CAR SYSTEM INC
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	51611
Lust Name:	Avis Rent-a-car Facility
Regulatory Program:	213
Release Status:	Closed
Project Manager:	Walquist, Barrett
Latitude:	42.887105
Longitude:	-85.530011

A38 **FAA GRR ASR4** **LUST** **U004246180**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512** **INVENTORY**

Site 38 of 77 in cluster A

Actual:
787 ft.

LUST:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00013884
Source:	STATE OF MICHIGAN
Owner Name:	FederalAviation Administration
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Faa Airway Facilities
Latitude:	42.88710
Longitude:	-85.53001
Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100

FAA GRR ASR4 (Continued) **U004246180**

Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-0876-97
Release Date:	09/23/1997
Substance Released:	Diesel
Release Status:	Closed
Release Closed Date:	10/14/1997

Leak Number:	C-0892-98
Release Date:	09/21/1998
Substance Released:	Diesel
Release Status:	Closed
Release Closed Date:	07/19/1999

UST:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported
Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	ASR4
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	04/08/1972
Remove Date:	09/10/1997
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported

FAA GRR ASR4 (Continued) **U004246180**

Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported
Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	3LOC26L
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	04/08/1962
Remove Date:	11/15/1988
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00013884
Owner Name:	FEDERAL AVIATION ADMINISTRATION
Owner Address:	8808 BECK RD WILLOW RUN AIRPORT
Owner City:	BELLEVILLE
Owner State:	MI
Owner Zip:	48111
Owner Contact:	Not reported

FAA GRR ASR4 (Continued) **U004246180**

Owner Phone:	7344877323
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	1TOWER
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	04/08/1960
Remove Date:	11/16/1998
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

INVENTORY:

Name:	FAA GRR ASR4
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Grand Rapids
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	62382
Lust Name:	Faa Airway Facilities
Regulatory Program:	213
Release Status:	Closed
Project Manager:	Walquist, Barrett
Latitude:	42.887105
Longitude:	-85.530011

A39 **FAST DELIVERY INC HANGAR** **RCRA-VSQG** **1000213268**
Target **5500 44TH ST SE** **MID985567411**
Property **GRAND RAPIDS, MI 49512**

Site 39 of 77 in cluster A

Actual: **787 ft.**

RCRA-VSQG:

Date Form Received by Agency:	19951024
Handler Name:	FAST DELIVERY INC HANGAR
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID985567411
Contact Name:	KURT BURMEISTER

FAST DELIVERY INC HANGAR (Continued) **1000213268**

Contact Address:	5500 44TH ST SE
Contact City,State,Zip:	GRAND RAPIDS, MI 49512
Contact Telephone:	616-956-7733
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
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
State District:	Not reported
Mailing Address:	3144 BROADMOOR AVE SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	COUNTY OF KENT INTERNATIONAL AIRPORT
Owner Type:	County
Operator Name:	FEDERAL ARMORED SERV
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

FAST DELIVERY INC HANGAR (Continued) **1000213268**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
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:	COUNTY OF KENT INTERNATIONAL AIRPORT
Legal Status:	County
Date Became Current:	19951024
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:	FEDERAL ARMORED SERV
Legal Status:	Private
Date Became Current:	19951002
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:	FEDERAL ARMORED SERV
Legal Status:	Private
Date Became Current:	19951002
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

FAST DELIVERY INC HANGAR (Continued) **1000213268**

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: 19951024
Handler Name: FAST DELIVERY INC HANGAR
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: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violation:
Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported
Date of Enforcement Action: Not reported
Enforcement Responsible Agency: Not reported
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: Not reported
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: Not reported
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported

FAST DELIVERY INC HANGAR (Continued) **1000213268**

SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A40 **UNITED AIRLINES** **UST** **U003834707**
Target **5500 44TH ST** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 40 of 77 in cluster A

Actual: **787 ft.**

UST:

Name:	UNITED AIRLINES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	CLOSED
Facility ID:	00039157
Owner Name:	UNITED AIRLINES
Owner Address:	5500 44TH ST SE GATE B-2
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6169490404
Contact:	SAM GEIGER
Contact Phone:	(616) 949-0404
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	15000
Tank Status:	Removed from Ground
Substance:	Hazardous Substance(1,PROPLYLENE/GLYCOL)
Install Date:	03/19/1974

UNITED AIRLINES (Continued) **U003834707**

Remove Date:	04/11/1997
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88569
Longitude:	-85.53158

A41 **ERNS** **2007849493**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI 49512

Site 41 of 77 in cluster A

Actual: 787 ft.

Incident Commons:

NRC Report #:	849493
Description of Incident:	CALLER STATED THERE WAS A SPILL OF MATERIALS FROM A DAY TANK AT THE FACILITY.
Type of Incident:	STORAGE TANK
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	2007-09-21 10:30:00
Incident DTG:	DISCOVERED
Incident Location:	GRAND RAPIDS AIR TRAFFIC CONTROL TOWER
Loaction Address:	5500 44TH STREET SE
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	GRAND RAPIDS
Location State:	MI
Location County:	KENT
Location Zip:	49512
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	N

Incidents:

NRC Report #:	849493
Aircraft Type:	Not reported
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported

(Continued) **2007849493**

Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	Not reported
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	Not reported
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	N
Pipeline Covered:	U
Railroad Hotline:	Not reported
Grade Crossing:	U
Location Subdivision:	Not reported
Railroad Milepost:	Not reported
Type Vehicle Involved:	Not reported
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	U
Description of Tank:	DAY TANK
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported
Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	U
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	U
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported

(Continued) **2007849493**

CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	849493
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	N
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	N
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	N
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	N
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	N
Track Closed:	N
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	NONE
Medium Desc:	WATER
Additional Medium Info:	STORM DRAIN
Body of Water:	STORM DRAIN
Tributary of:	Not reported
Release Secured:	Y
Estimated Duration of Release:	Not reported
Release rate:	Not reported

(Continued) **2007849493**

Desc Remedial Action:	CALLER STATED THEY ARE USING A SPILL KIT WHICH WAS ON SITE ALONG WITH ABSORBENT PADS. CALLER STATED THE STORM DRAIN WAS ALSO COVERED.
State Agency on Scene:	NONE
State Agency Report Number:	NONE
Other Agency Notified:	Not reported
Weather Conditions:	OVERCAST
Air Temperature:	84
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	U
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	CALLER DID NOT HAVE ANY ADDITIONAL INFORMATION.
State Agency Notified:	NONE
Federal Agency Notified:	FAA
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	N
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	NO

Calls:

NRC Report #:	849493
Site ID:	2007849493
Date Time Received:	2007-09-21 11:52:14
Date Time Complete:	2007-09-21 12:00:32
Call Type:	INC
Responsible Company:	GRAND RAPIDS AIR TRAFFIC CONTROL TOWER
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	GRAND RAPIDS
Responsible State:	MI
Responsible Zip:	49512
On Behalf:	N
Source:	TELEPHONE

(Continued) **2007849493**

Material Involved:

NRC Report #:	849493
Chris Code:	OTD
Case Number:	000000-00-0
UN Number:	Not reported
Amount of Material:	41
Unit of Measure:	GALLON(S)
Name of Material:	OIL, FUEL: NO. 2-D
If Reached Water:	YES
Amount in Water:	20
Unit of Measure Reach Water:	GALLON(S)

A42 **KENT COUNTY (CFR)** **LUST** **U003758710**
Target **5500 44TH ST** **INVENTORY** **N/A**
Property **GRAND RAPIDS, MI 49512** **SPILLS**
BEA
Site 42 of 77 in cluster A **Financial Assurance**
WDS

Actual:
787 ft.

LUST:

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00018302
Source:	STATE OF MICHIGAN
Owner Name:	Highland Hickory Ridge LLC
Owner Address:	667 E Big Beaver Rd Ste 201
Owner City,St,Zip:	Troy, MI 48083-
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	US
District:	Grand Rapids
Site Name:	Amr Combs (ga Farm)
Latitude:	42.88569
Longitude:	-85.53158
Date of Collection:	01/11/2001
Method of Collection:	Address Matching-House Number
Accuracy:	100
Accuracy Value Unit:	FEET
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported
Leak Number:	C-1016-96
Release Date:	12/06/1996
Substance Released:	Unknown
Release Status:	Closed
Release Closed Date:	03/17/1997
Leak Number:	C-1027-93

KENT COUNTY (CFR) (Continued) **U003758710**

Release Date: 08/23/1993
Substance Released: Other
Release Status: Closed
Release Closed Date: 10/30/1996

Leak Number: C-2091-90
Release Date: 10/19/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 02/04/1992

INVENTORY:
Name: AMR COMBS GRAND RAPIDS INC
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Present but Not Immediate
Location ID: 58530
Lust Name: Amr Combs
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

Name: SIGNATURE FLIGHT GRR C,D FACILITIES
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Controlled
Location ID: 44716
Lust Name: Amr Combs (ga Farm)
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.885697
Longitude: -85.531585

Name: KENT COUNTY (CFR)
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids
District: Grand Rapids
Data Source: Risks Not Determined
Location ID: 52600
Lust Name: United Airlines
Regulatory Program: 213
Release Status: Open
Project Manager: Walquist, Barrett
Latitude: 42.883137
Longitude: -85.524358

Name: SIGNATURE FLIGHT-GRR-B FACILITY
Address: 5500 44TH ST
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Grand Rapids

KENT COUNTY (CFR) (Continued) **U003758710**

District: Grand Rapids
Data Source: Risks Controlled
Location ID: 42186
Lust Name: Kent Co. Airport East Ramp
Regulatory Program: 213
Release Status: Closed
Project Manager: Walquist, Barrett
Latitude: 42.887105
Longitude: -85.530011

PEAS:

Name:	Not reported
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI
Incident Date:	2012-08-15 00:00:00
Office Status:	AFTER HOURS
Initials of Incoming Operator:	DWA
Time Received by DNRE Staff:	1741
Time Occur:	Not reported
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	5500 44TH ST SE
Company Involved:	DELTA AIRLINES
DEQ Division Involved:	ON CALL
Incident Description:	DE-ICE TRUCK HOSE FAILURE.
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	8/15/2012
Time Discovered:	1530
Office/After Hours:	Not reported
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported

BEA:

Name:	GERALD R. FORD INTERNATIONAL AIRPORT (GFIA)
Address:	5500 44TH STREET & 4199 CASSARD LANE SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	11/22/2021
Submitter Name:	Not reported
Petition Determination:	Not reported

KENT COUNTY (CFR) (Continued) **U003758710**

Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	41001285
Submittal Type:	BEA
Submittal Number:	41001285-BEA-1
Approval Status:	In Review
Workflow Status:	Submitted
Date Submitted:	Not reported
Date Completed:	00:00.0
Township:	Not reported
Work Unit:	Grand Rapids
Comments:	Not reported
Organization:	Avflight Grand Rapids Corporation
Contact:	Not reported
Contact Type:	Not reported

FINANCIAL ASSURANCE 3:

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00015000
Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

Name:	KENT CT DEPT /AERONAUTICS (FIELD OFFICE 4800 PATTERSON)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00040196
Exempt:	No
Expiration Date:	03/23/2009
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2009

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055

KENT COUNTY (CFR) (Continued) **U003758710**

Facility ID:	00004115
Exempt:	No
Expiration Date:	07/01/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2018

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-4055
Facility ID:	00018302
Exempt:	No
Expiration Date:	12/14/2020
Bond Rating Tests:	Not reported
Commerical Insurance:	CHECKED
Guarantee:	Not reported
Letter of Credit:	Not reported
Risk Retention Group:	Not reported
Self Insurance:	Not reported
State Funds:	Not reported
Surety Bond:	Not reported
Trust Funds:	Not reported
Year:	2020

WDS:

Name:	TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK289887432
WMD Id:	477398
Site Specific Name:	TSA - GERALD FORD INTERNATIONAL AIRPORT (GRR)
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

A43 **KENT COUNTY (CFR)** **LUST** **U004246060**
Target **5500 44TH ST** **UST** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 43 of 77 in cluster A

Actual:
787 ft.

LUST:

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS, MI 49512-
Facility ID:	00004115
Source:	STATE OF MICHIGAN
Owner Name:	KentCounty Dept of Aeronautics
Owner Address:	Not reported
Owner City,St,Zip:	UNKNOWN, MI

KENT COUNTY (CFR) (Continued) **U004246060**

Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	United Airlines
Latitude:	42.88313
Longitude:	-85.52435
Date of Collection:	05/14/2007
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
Accuracy:	10
Accuracy Value Unit:	METERS
Horizontal Data:	NAD83
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-2237-90
Release Date:	10/30/1990
Substance Released:	Not reported
Release Status:	Open
Release Closed Date:	Not reported

UST:

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Diesel
Install Date:	01/01/1983
Remove Date:	Not reported
Tank Number:	Not reported

KENT COUNTY (CFR) (Continued) **U004246060**

Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	4
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	01/01/1983
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE

KENT COUNTY (CFR) (Continued) **U004246060**

Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	3
Capacity:	275
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	05/01/1960
Remove Date:	10/19/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	2

KENT COUNTY (CFR) (Continued) **U004246060**

Capacity:	550
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	05/02/1983
Remove Date:	10/19/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

Name:	KENT COUNTY (CFR)
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00004115
Owner Name:	KENT COUNTY DEPT OF AERONAUTICS
Owner Address:	5500 44TH STREET SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6162336000
Contact:	Roy D Hawkins
Contact Phone:	(616) 233-6022
Date of Collection:	05/14/2007
Accuracy:	10
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	GPS Code Meas. Standard Positioning Service SA Off
District:	Region 3 - Grand Rapids District Office
Tank ID:	1
Capacity:	12000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	05/02/1983
Remove Date:	10/03/1990
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88313
Longitude:	-85.52435

A44 **NORTHERN AIR INC** **RGA LUST** **S115688398**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 44 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2004	NORTHERN AIR INC	5500 44TH ST SE
2003	NORTHERN AIR INC	5500 44TH ST SE
2001	NORTHERN AIR INC	5500 44TH ST SE

A45 **AVIS RENT-A-CAR** **RGA LUST** **S115665768**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 45 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1997	AVIS RENT-A-CAR	5500 44TH ST SE

A46 **FAA AIRWAY FACILITIES** **RGA LUST** **S115674781**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 46 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1997	FAA AIRWAY FACILITIES	5500 44TH ST SE

A47 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679430**
Target **KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)** **N/A**
Property **GRAND RAPIDS, MI**

Site 47 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2004	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)
2003	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH SE (FORMERLY)

A48 **FAA GRR ASR4** **RGA LUST** **S115674786**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 48 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2012	FAA GRR ASR4	5500 44TH ST SE
2011	FAA GRR ASR4	5500 44TH ST SE
2010	FAA GRR ASR4	5500 44TH ST SE
2009	FAA GRR ASR4	5500 44TH ST SE
2008	FAA GRR ASR4	5500 44TH ST SE

FAA GRR ASR4 (Continued) **S115674786**

2007	FAA GRR ASR4	5500 44TH ST SE
2006	FAA GRR ASR4	5500 44TH ST SE
2005	FAA GRR ASR4	5500 44TH ST SE
2004	FAA GRR ASR4	5500 44TH ST SE
2003	FAA GRR ASR4	5500 44TH ST SE
2001	FAA GRR ASR4	5500 44TH ST SE

A49 **SPILLS** **S125717453**
Target Property **5500 44TH STREET SE, BLDG. 203** **N/A**
GRAND RAPIDS, MI

Site 49 of 77 in cluster A

Actual: 787 ft.

PEAS:

Name:	Not reported
Address:	5500 44TH STREET SE, BLDG. 203
City,State,Zip:	GRAND RAPIDS, MI
Incident Date:	10/21/2019
Office Status:	Not reported
Initials of Incoming Operator:	BF - EAC
Time Received by DNRE Staff:	Not reported
Time Occur:	13:06
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	Not reported
Company Involved:	Not reported
DEQ Division Involved:	RRD
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	Not reported
Time Discovered:	Not reported
Office/After Hours:	Office Hrs.
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported

Name:	Not reported
Address:	5500 44TH STREET SE, BLDG. 203
City,State,Zip:	GRAND RAPIDS, MI
Incident Date:	2019-10-21 00:00:00
Office Status:	Not reported
Initials of Incoming Operator:	BF - EAC
Time Received by DNRE Staff:	Not reported
Time Occur:	13:06
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported

(Continued) **S125717453**

Complainant Address:	Not reported
Company Involved:	Not reported
DEQ Division Involved:	RRD
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Incident Description:	Not reported
Description:	Not reported
Date Discovered:	Not reported
Time Discovered:	Not reported
Office/After Hours:	Office Hrs.
Party Involved - Phone 1:	Not reported
Party Involved - Phone 2:	Not reported
Ongoing?:	Not reported
Release Secured:	Not reported
Source:	Not reported
Source decode:	Not reported
Lead Division 2:	Not reported
Party Involved Type:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Release/Incident Ctrl:	Not reported
Release/Incident Ctrl Detail:	Not reported
Special Referral:	Not reported

A50 **TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)** **RCRA-VSQG** **1007370895**
Target **5500 44TH ST SE** **MIK289887432**
Property **GRAND RAPIDS, MI 49512**

Site 50 of 77 in cluster A

Actual: **787 ft.**

RCRA-VSQG:

Date Form Received by Agency:	20211110
Handler Name:	TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MIK289887432
Contact Name:	MICHAEL CLOUD
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	616-285-6631
Contact Fax:	Not reported
Contact Email:	MICHAEL.CLOUD@TSA.DHS.GOV
Contact Title:	Not reported
EPA Region:	05
Land Type:	Federal
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
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Owner Type:	County
Operator Name:	US TRANSPORTATION SECURITY ADMIN

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Operator Type:	Federal
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	The land is federally-owned, The site is federally-operated
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20211123
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

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Hazardous Waste Summary:
Waste Code: D001
Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST., SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Indicator:	Owner
Owner/Operator Name:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
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:	GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	COUNTY OF KENT DEPARTMENT OF AERONAUTICS
Legal Status:	County
Date Became Current:	19631123
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	US TRANSPORTATION SECURITY ADMIN
Legal Status:	Federal
Date Became Current:	20010101
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Owner
Owner/Operator Name: GERALD R FORD INTERNATIONAL AIRPORT AUTHORITY
Legal Status: County
Date Became Current: 19631123
Date Ended Current: Not reported
Owner/Operator Address: 5500 44TH ST SE
Owner/Operator City,State,Zip: GRAND RAPIDS, MI 49512-4093
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: 19800101
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20040422
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20090210
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20100422
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20110407
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20121126
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20121207
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20130612
Handler Name:	GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20140729
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20150706
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20160830
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20170823
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

Receive Date: 20180502
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20190422
Handler Name: GERALD R FORD INTERNATIONAL AIRPORT (GRR)
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 20210419
Handler Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT
Federal Waste Generator Description: 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: No
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

Receive Date: 20211110
Handler Name: TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR)
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: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

NAICS Code: 488119

TSA - GERALD R FORD INTERNATIONAL AIRPORT (GRR) (Continued) **1007370895**

NAICS Description: OTHER AIRPORT OPERATIONS

NAICS Code: 92612
NAICS Description: REGULATION AND ADMINISTRATION OF TRANSPORTATION PROGRAMS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

A51 **FAA AIRWAY FACILITIES** **RGA LUST** **S115674782**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 51 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1999	FAA AIRWAY FACILITIES	5500 44TH STREET SE
1998	FAA AIRWAY FACILITIES	5500 44TH STREET SE

A52 **SIGNATURE FLIGHT GRR C,D FACILITIES** **UST** **U003328903**
Target **5500 44TH ST** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 52 of 77 in cluster A

Actual: **787 ft.**

UST:

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	D-9
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	D-10
Capacity:	10000
Tank Status:	Currently In Use
Substance:	Gasoline
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	C-8
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Method of Collection:	Not reported
District:	Not reported
Tank ID:	C-7
Capacity:	20000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(A Aviation Fuel)
Install Date:	05/06/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT GRR C,D FACILITIES
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00018302
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Christopher Reed
Contact Phone:	(616) 336-4707
Date of Collection:	01/11/2001
Accuracy:	100
Horizontal Datum:	NAD83
Accuracy Value Unit:	FEET
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Plant Entrance (Freight)
Method of Collection:	Address Matching-House Number
District:	Region 3 - Grand Rapids District Office
Tank ID:	5
Capacity:	250
Tank Status:	Removed from Ground
Substance:	Used Oil
Install Date:	01/01/1971
Remove Date:	10/29/1996
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	42.88569

SIGNATURE FLIGHT GRR C,D FACILITIES (Continued) **U003328903**

Longitude: -85.53158

A53 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665750**
Target Property **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 53 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2008 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2006 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2005 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A54 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665759**
Target Property **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 54 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2012 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2011 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2010 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT
2009 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A55 **AVIS RENT-A-CAR SYSTEM INC** **RGA LUST** **S115665765**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 55 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2000 AVIS RENT-A-CAR SYSTEM INC 5500 44TH STREET SE
1999 AVIS RENT-A-CAR SYSTEM INC 5500 44TH STREET SE
1998 AVIS RENT-A-CAR SYSTEM INC 5500 44TH STREET SE

A56 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665751**
Target Property **5500 44TH STREET SE KENT COUNTY AIRPORT** **N/A**
GRAND RAPIDS, MI

Site 56 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2007 AVIS RENT A CAR SYSTEM INC 5500 44TH STREET SE KENT COUNTY AIRPORT

A57
Target
Property
Actual:
787 ft.

FAA GRR ASR4
5500 44TH STREET SE
GRAND RAPIDS, MI

Site 57 of 77 in cluster A

RGA LUST **S115674787**
N/A

RGA LUST:

2000	FAA GRR ASR4	5500 44TH STREET SE

A58
Target
Property
Actual:
787 ft.

LANDMARK AVIATION
5500 44TH ST SE
GRAND RAPIDS, MI 49512

Site 58 of 77 in cluster A

UST **1000704623**
RCRA NonGen / NLR **MID062226998**
FINDS
ECHO
AIRS

UST:

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B6
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST

LANDMARK AVIATION (Continued) **1000704623**

City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B5
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B4
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	SIGNATURE FLIGHT-GRR-B FACILITY
Address:	5500 44TH ST
City,State,Zip:	GRAND RAPIDS 49512-4055
Facility Type:	ACTIVE
Facility ID:	00015000
Owner Name:	Not reported
Owner Address:	5304 ROSS DR. SE
Owner City:	GRAND RAPIDS
Owner State:	MI
Owner Zip:	49512
Owner Contact:	Not reported
Owner Phone:	6163364711
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	B3
Capacity:	15000
Tank Status:	Currently In Use
Substance:	Kerosene,Other(Jet A Aviation Fuel)
Install Date:	03/19/1971
Remove Date:	Not reported
Tank Number:	Not reported
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

RCRA NonGen / NLR:

Date Form Received by Agency:	20170417
Handler Name:	LANDMARK AVIATION
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID062226998
Contact Name:	ZECHARIAH D POST
Contact Address:	Not reported
Contact City,State,Zip:	Not reported
Contact Telephone:	616-336-4700 4781
Contact Fax:	616-949-0732
Contact Email:	ZECHARIAH.POST@LANDMARKAVIATION.COM
Contact Title:	Not reported
EPA Region:	05
Land Type:	Other
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	5500 44TH ST SE
Mailing City,State,Zip:	GRAND RAPIDS, MI 49512
Owner Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Owner Type:	Private
Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20170421
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701

LANDMARK AVIATION (Continued) **1000704623**

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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	LANDMARK AVIATION
Legal Status:	Private
Date Became Current:	20130701
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

LANDMARK AVIATION (Continued) **1000704623**

Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	20160202
Date Ended Current:	Not reported
Owner/Operator Address:	5500 44TH ST SE
Owner/Operator City,State,Zip:	GRAND RAPIDS, MI 49512-4093
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102
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:	NORTHERN AIR INC
Legal Status:	Private
Date Became Current:	19970102

LANDMARK AVIATION (Continued) **1000704623**

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:	19950815
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	Large 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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20050302
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	19960913
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

Receive Date:	20020830
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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

LANDMARK AVIATION (Continued) **1000704623**

Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20021001
Handler Name: NORTHERN AIR INC	
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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20050314
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20090402
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20100413
Handler Name: NORTHERN AIR INC	
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20131126

LANDMARK AVIATION (Continued) **1000704623**

Handler Name:	LANDMARK AVIATION
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20150513
Handler Name:	LANDMARK AVIATION
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20160509
Handler Name:	LANDMARK AVIATION
Federal Waste Generator Description:	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:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20170417
Handler Name:	LANDMARK AVIATION
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	20170227
Handler Name:	LANDMARK AVIATION
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

LANDMARK AVIATION (Continued) **1000704623**

Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

Receive Date: 19960228
Handler Name: AMR COMBS-GRAND RAPIDS INC
Federal Waste Generator Description: Large 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: No
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48811
NAICS Description: AIRPORT OPERATIONS

NAICS Code: 48819
NAICS Description: OTHER SUPPORT ACTIVITIES FOR AIR TRANSPORTATION

Facility Has Received Notices of Violation:
Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

LANDMARK AVIATION (Continued) **1000704623**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: LDR - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001

LANDMARK AVIATION (Continued) **1000704623**

Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

LANDMARK AVIATION (Continued) **1000704623**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Universal Waste - Small Quantity Handlers
Date Violation was Determined: 20050302
Actual Return to Compliance Date: 20050314
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20050406
Enforcement Identifier: 001
Date of Enforcement Action: 20050303
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001

LANDMARK AVIATION (Continued) **1000704623**

Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Records/Reporting
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

LANDMARK AVIATION (Continued) **1000704623**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20050302
Actual Return to Compliance Date: 20050314
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20050406
Enforcement Identifier: 001
Date of Enforcement Action: 20050303
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - General
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001

LANDMARK AVIATION (Continued) **1000704623**

Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 19950808
Actual Return to Compliance Date: 19960131
Return to Compliance Qualifier: Observed
Violation Responsible Agency: State
Scheduled Compliance Date: 19950915
Enforcement Identifier: 001
Date of Enforcement Action: 19950810
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number: Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported

LANDMARK AVIATION (Continued) **1000704623**

SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: Yes
Agency Which Determined Violation: State
Violation Short Description: Generators - Pre-transport
Date Violation was Determined: 20050302
Actual Return to Compliance Date: 20050314
Return to Compliance Qualifier: Documented
Violation Responsible Agency: State
Scheduled Compliance Date: 20050406
Enforcement Identifier: 001
Date of Enforcement Action: 20050303
Enforcement Responsible Agency: State
Enforcement Docket Number: Not reported
Enforcement Attorney: Not reported
Corrective Action Component: No
Appeal Initiated Date: Not reported
Appeal Resolution Date: Not reported
Disposition Status Date: Not reported
Disposition Status: Not reported
Disposition Status Description: Not reported
Consent/Final Order Sequence Number:Not reported
Consent/Final Order Respondent Name: Not reported
Consent/Final Order Lead Agency: Not reported
Enforcement Type: WRITTEN INFORMAL
Enforcement Responsible Person: Not reported
Enforcement Responsible Sub-Organization: Not reported
SEP Sequence Number: Not reported
SEP Expenditure Amount: Not reported
SEP Scheduled Completion Date: Not reported
SEP Actual Date: Not reported
SEP Defaulted Date: Not reported
SEP Type: Not reported
SEP Type Description: Not reported
Proposed Amount: Not reported
Final Monetary Amount: Not reported
Paid Amount: Not reported
Final Count: Not reported
Final Amount: Not reported

Found Violation: No
Agency Which Determined Violation: Not reported
Violation Short Description: Not reported
Date Violation was Determined: Not reported
Actual Return to Compliance Date: Not reported
Return to Compliance Qualifier: Not reported
Violation Responsible Agency: Not reported
Scheduled Compliance Date: Not reported
Enforcement Identifier: Not reported

LANDMARK AVIATION (Continued) **1000704623**

Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960131

LANDMARK AVIATION (Continued) **1000704623**

Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19960131
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	FOLLOW-UP INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	19950808
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	19960131
Scheduled Compliance Date:	19950915
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported
Evaluation Date:	20050302
Evaluation Responsible Agency:	State
Found Violation:	Yes
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	20050314
Scheduled Compliance Date:	20050406
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

Former Citation:	Not reported
Evaluation Date:	20121129
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	COMPLIANCE EVALUATION INSPECTION ON-SITE
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

FINDS:
Registry ID: 110009598015

Click Here:

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

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

ECHO:

Envid:	1000704623
Registry ID:	110009598015
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110009598015
Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

AIRS:

Name:	HERTZ CORPORATION
Address:	5500 44TH STREET SE
City,State,Zip:	GRAND RAPIDS, MI 49508
State Registration Number:	N2692
Naics Code:	Not reported
Contact Email:	Not reported
Contact Name:	SUSAN KLINGENSTEIN
Contact Phone:	2013072547
Contact Address:	225 BRAE BLVD
Contact City,St,Zip:	PARK RIDGE, NJ 7656
Permit Number:	705-93
Date Received:	09/09/1993
Application Reason:	MODIFICATION
Record Type:	Not reported
State County FIPS:	Not reported
Facility Category:	Not reported

LANDMARK AVIATION (Continued) **1000704623**

SIC Primary:	Not reported
Tribal Code:	Not reported
Facility Status Code:	Not reported
Facility Status:	Active
Supplemental Location Text:	Not reported
Business Name:	Not reported
Principal Product:	Not reported
Principal Product Description:	Not reported
UTM Zone (Geo Coordinates Universal Transverse Mercator System):	Not reported
UTM Horizontal Coord:	Not reported
UTM Vertical Coord:	Not reported
Mailing Name:	Not reported
Mailing Contact Person:	Not reported
Mailing Street:	Not reported
Mailing City:	Not reported
Mailing State:	Not reported
Mailing Zip:	Not reported
Mailing Zip 4 Extension:	Not reported
Compliance Person:	Not reported
Compliance Area Code:	Not reported
Compliance Phone Number:	Not reported
Emission Inventory Contact Person:	Not reported
EI Contact Area Code:	Not reported
EI Contact Phone Number:	Not reported
Permit Contact Person:	Not reported
Permit Contact Person Area Code:	Not reported
Permit Contact Person Phone Number:	Not reported
Federal Employer Id Number:	Not reported
# Of Employees:	Not reported
Reporting Year:	Not reported
Date Record Was Created:	Not reported

A59 **AVIS RENT-A-CAR SYSTEM INC** **RGA LUST** **S115665764**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 59 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2001	AVIS RENT-A-CAR SYSTEM INC	5500 44TH ST SE

A60 **AVIS RENT A CAR** **RGA LUST** **S115665762**
Target **5500 44TH ST.** **N/A**
Property **GRAND RAPIDS, MI**

Site 60 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1991	AVIS RENT A CAR	5500 44TH ST.

A61 **BUILDING 106, 5500 44TH STREET SE GERALD R FORD IN** **BEA** **S127500871**
Target Property **BUILDING 106, 5500 44TH STREET SE GERALD** **N/A**
KENT (County), MI 49512

Site 61 of 77 in cluster A

Actual: 787 ft.

BEA:

Name:	BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address:	BUILDING 106, 5500 44TH STREET SE GERALD
City,State,Zip:	MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	05/12/2003
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:	41002271
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200301197GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2004-01-31 07:29:04
Date Completed:	Not reported
Township:	Grand Rapids
Work Unit:	Grand Rapids
Comments:	Category A1 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Previous owner is assuming response activities.
Organization:	MIRAC, Inc.
Contact:	John D. Zaworski
Contact Type:	Submitter Contact

Name:	BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONAL AIRPORT
Address:	BUILDING 106, 5500 44TH STREET SE GERALD, R FORD INTERNATIONAL AIRPORT
City,State,Zip:	MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	05/12/2003
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:	41002271
Submittal Type:	BEA
Submittal Number:	B200301197GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2004-01-31 07:29:04
Date Completed:	Not reported

BUILDING 106, 5500 44TH STREET SE GERALD R FORD INTERNATIONA (Continued) **S127500871**

Township: Not reported
Work Unit: Grand Rapids
Comments: Category A1 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: Previous owner is assuming response activities.
Organization: MIRAC, Inc.
Contact: Not reported
Contact Type: Submitter Contact

A62 **NORTHERN AIR INC** **RGA LUST** **S115688400**
Target **5500 44TH STREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 62 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2000	NORTHERN AIR INC	5500 44TH STREET SE
1999	NORTHERN AIR INC	5500 44TH STREET SE
1998	NORTHERN AIR INC	5500 44TH STREET SE

A63 **BISSELL INC** **RCRA-VSQG** **1014391941**
Target **5500 44TH ST SE** **MIK392845467**
Property **GRAND RAPIDS, MI 49512**

Site 63 of 77 in cluster A

Actual: **787 ft.**

RCRA-VSQG:

Date Form Received by Agency:		20100910
Handler Name:	BISSELL INC	
Handler Address:		5500 44TH ST SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIK392845467
Contact Name:		STEVE GEHRES
Contact Address:		5500 44TH ST SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512
Contact Telephone:		616-206-8041
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		05
Land Type:		Private
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
State District:		Not reported
Mailing Address:		5500 44TH ST SE
Mailing City,State,Zip:		GRAND RAPIDS, MI 49512
Owner Name:		BISSELL INC
Owner Type:		Private
Operator Name:		BISSELL INC
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No

BISSELL INC (Continued) **1014391941**

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:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	Yes
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:
Waste Code: D001

BISSELL INC (Continued) **1014391941**

Waste Description: IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	BISSELL INC
Legal Status:	Private
Date Became Current:	20101001
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:	BISSELL INC
Legal Status:	Private
Date Became Current:	20101001
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:	20100910
Handler Name: BISSELL INC	
Federal Waste Generator Description:	Conditionally Exempt Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	Yes
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:	481211
NAICS Description:	NONSCHEDULED CHARTERED PASSENGER AIR TRANSPORTATION

NAICS Code:	481219
NAICS Description:	OTHER NONSCHEDULED AIR TRANSPORTATION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

A64 **AMR COMBS - GRAND RAPIDS INC** **RGA LUST** **S115665082**
Target Property **5500 44TH STREET SE** **N/A**
GRAND RAPIDS, MI

Site 64 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

1997	AMR COMBS - GRAND RAPIDS INC	5500 44TH STREET SE

A65 **HERTZ RENT A CAR (AREA #1534-11)** **RGA LUST** **S115679431**
Target Property **KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)** **N/A**
GRAND RAPIDS, MI

Site 65 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2008	HERTZ RENT A CAR (AREA #1534-11)	KENT COUNTY INT'L AIRPORT 5500 44TH STREET (FORMERLY)

A66 **NORTHERN AIR INC** **RGA LUST** **S115688395**
Target Property **5500 44TH SREET SE** **N/A**
GRAND RAPIDS, MI

Site 66 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2012	NORTHERN AIR INC	5500 44TH SREET SE
2011	NORTHERN AIR INC	5500 44TH SREET SE
2010	NORTHERN AIR INC	5500 44TH SREET SE
2009	NORTHERN AIR INC	5500 44TH SREET SE
2008	NORTHERN AIR INC	5500 44TH SREET SE
2007	NORTHERN AIR INC	5500 44TH SREET SE
2006	NORTHERN AIR INC	5500 44TH SREET SE

A67 **NORTHERN AIR INC** **RGA LUST** **S115688397**
Target Property **5500 44TH ST (GA FARM)** **N/A**
GRAND RAPIDS, MI

Site 67 of 77 in cluster A

Actual: 787 ft.

RGA LUST:

2012	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2011	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2010	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2009	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2004	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2003	NORTHERN AIR INC	5500 44TH ST (GA FARM)
2001	NORTHERN AIR INC	5500 44TH ST (GA FARM)

A68 **UNITED AIRLINES** **RGA LUST** **S115699182**
Target **5500 44TH ST. SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 68 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

1991	UNITED AIRLINES	5500 44TH ST. SE

A69 **NORTHERN AIR INC** **RGA LUST** **S115688399**
Target **5500 44TH STREET (GA FARM)** **N/A**
Property **GRAND RAPIDS, MI**

Site 69 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2000	NORTHERN AIR INC	5500 44TH STREET (GA FARM)
1999	NORTHERN AIR INC	5500 44TH STREET (GA FARM)
1998	NORTHERN AIR INC	5500 44TH STREET (GA FARM)

A70 **LANDMARK AVIATION** **WDS** **S114154633**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 70 of 77 in cluster A

Actual: **787 ft.**

WDS:

Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MIK857313202
WMD Id:	493199
Site Specific Name:	LANDMARK AVIATION - NORTH
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

Name:	LANDMARK AVIATION
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512
Site Id:	MID062226998
WMD Id:	396689
Site Specific Name:	LANDMARK AVIATION
Mailing Address:	5500 44TH ST SE
Mailing City/State/Zip:	49512
Mailing County:	KENT

A71 **AMR COMBS GRAND RAPIDS INC** **RGA LUST** **S115665083**
Target **5500 44TH ST SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 71 of 77 in cluster A

Actual: **787 ft.**

RGA LUST:

2012	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2011	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2010	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2009	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2008	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2007	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2006	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2005	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2004	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2003	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2001	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
2000	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1999	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1998	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE
1997	AMR COMBS GRAND RAPIDS INC	5500 44TH ST SE

A72 **PIEDMONT AIRLINES** **FINDS** **1007132964**
Target **5500 44TH ST SE** **ECHO** **N/A**
Property **GRAND RAPIDS, MI 49512**

Site 72 of 77 in cluster A

Actual: **787 ft.**

FINDS:
Registry ID: 110015806831

Click Here:

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

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

ECHO:

Envid:	1007132964
Registry ID:	110015806831
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110015806831
Name:	PIEDMONT AIRLINES
Address:	5500 44TH ST SE
City,State,Zip:	GRAND RAPIDS, MI 49512

A73 **DELTA AIR LINES GRAND RAPIDS** **RCRA NonGen / NLR** **1000394767**
Target **5500 44TH ST SE** **MID985581321**
Property **GRAND RAPIDS, MI 49512**

Site 73 of 77 in cluster A

Actual: **787 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	19951020
Handler Name:	DELTA AIR LINES GRAND RAPIDS
Handler Address:	5500 44TH ST SE
Handler City,State,Zip:	GRAND RAPIDS, MI 49512
EPA ID:	MID985581321
Contact Name:	S HOPKINS
Contact Address:	5500 44TH ST SE
Contact City,State,Zip:	GRAND RAPIDS, MI 49512
Contact Telephone:	616-956-6360
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	County
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	DEPT 594 ATLANTA INTL AIRPORT
Mailing City,State,Zip:	ATLANTA, GA 30320
Owner Name:	COUNTY OF KENT
Owner Type:	County
Operator Name:	COUNTY OF KENT
Operator Type:	County
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	COUNTY OF KENT
Legal Status:	County
Date Became Current:	19700101
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:	19951020
Handler Name:	DELTA AIR LINES GRAND RAPIDS
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:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	19900621
Handler Name:	DELTA AIR LINES GRAND RAPIDS
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
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

DELTA AIR LINES GRAND RAPIDS (Continued) **1000394767**

List of NAICS Codes and Descriptions:
NAICS Code: 11131
NAICS Description: ORANGE GROVES

Facility Has Received Notices of Violation:

Found Violation:	No
Agency Which Determined Violation:	Not reported
Violation Short Description:	Not reported
Date Violation was Determined:	Not reported
Actual Return to Compliance Date:	Not reported
Return to Compliance Qualifier:	Not reported
Violation Responsible Agency:	Not reported
Scheduled Compliance Date:	Not reported
Enforcement Identifier:	Not reported
Date of Enforcement Action:	Not reported
Enforcement Responsible Agency:	Not reported
Enforcement Docket Number:	Not reported
Enforcement Attorney:	Not reported
Corrective Action Component:	Not reported
Appeal Initiated Date:	Not reported
Appeal Resolution Date:	Not reported
Disposition Status Date:	Not reported
Disposition Status:	Not reported
Disposition Status Description:	Not reported
Consent/Final Order Sequence Number:	Not reported
Consent/Final Order Respondent Name:	Not reported
Consent/Final Order Lead Agency:	Not reported
Enforcement Type:	Not reported
Enforcement Responsible Person:	Not reported
Enforcement Responsible Sub-Organization:	Not reported
SEP Sequence Number:	Not reported
SEP Expenditure Amount:	Not reported
SEP Scheduled Completion Date:	Not reported
SEP Actual Date:	Not reported
SEP Defaulted Date:	Not reported
SEP Type:	Not reported
SEP Type Description:	Not reported
Proposed Amount:	Not reported
Final Monetary Amount:	Not reported
Paid Amount:	Not reported
Final Count:	Not reported
Final Amount:	Not reported

Evaluation Action Summary:

Evaluation Date:	19951016
Evaluation Responsible Agency:	State
Found Violation:	No
Evaluation Type Description:	FOCUSED COMPLIANCE INSPECTION
Evaluation Responsible Person Identifier:	Not reported
Evaluation Responsible Sub-Organization:	Not reported
Actual Return to Compliance Date:	Not reported
Scheduled Compliance Date:	Not reported
Date of Request:	Not reported
Date Response Received:	Not reported
Request Agency:	Not reported
Former Citation:	Not reported

A74 **ALAMO RENT-A-CAR NATIONAL CAR RENTAL** **RGA LUST** **S115663879**
Target **5500 44TH SREET SE** **N/A**
Property **GRAND RAPIDS, MI**

Site 74 of 77 in cluster A

Actual: **787 ft.**
RGA LUST:
2005 ALAMO RENT-A-CAR NATIONAL CAR RENTAL 5500 44TH SREET SE

A75 **AMR COMBS - GRAND RAPIDS INC** **RGA LUST** **S115665081**
Target **5500 44TH STREET (GA FARM)** **N/A**
Property **GRAND RAPIDS, MI**

Site 75 of 77 in cluster A

Actual: **787 ft.**
RGA LUST:
1997 AMR COMBS - GRAND RAPIDS INC 5500 44TH STREET (GA FARM)

A76 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665748**
Target **5500 44TH ST SE KENT COUNTY AIRPORT** **N/A**
Property **GRAND RAPIDS, MI**

Site 76 of 77 in cluster A

Actual: **787 ft.**
RGA LUST:
2004 AVIS RENT A CAR SYSTEM INC 5500 44TH ST SE KENT COUNTY AIRPORT

A77 **AVIS RENT A CAR SYSTEM INC** **RGA LUST** **S115665749**
Target **5500 44TH ST SE KENT COUNTY AIRPORT** **N/A**
Property **GRAND RAPIDS, MI**

Site 77 of 77 in cluster A

Actual: **787 ft.**
RGA LUST:
2003 AVIS RENT A CAR SYSTEM INC 5500 44TH ST SE KENT COUNTY AIRPORT

B78 **FEDERAL EXPRESS CORP** **RCRA-VSQG** **1004725343**
SE **6450 AIR CARGO RD SE** **MIR000041392**
1/8-1/4 **GRAND RAPIDS, MI 49512**
0.130 mi.
684 ft. **Site 1 of 2 in cluster B**

Relative: **Lower**
Actual: **786 ft.**
RCRA-VSQG:

Date Form Received by Agency:		19990813
Handler Name:	FEDERAL EXPRESS CORP	
Handler Address:		6450 AIR CARGO RD SE
Handler City,State,Zip:		GRAND RAPIDS, MI 49512
EPA ID:		MIR000041392
Contact Name:		DANIELLE CARTER
Contact Address:		6450 AIR CARGO RD SE
Contact City,State,Zip:		GRAND RAPIDS, MI 49512

FEDERAL EXPRESS CORP (Continued) **1004725343**

Contact Telephone:	901-434-8509
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	05
Land Type:	Private
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
State District:	Not reported
Mailing Address:	3620 HACKS CROSS ROAD
Mailing City,State,Zip:	MEMPHIS, TN 38194
Owner Name:	FEDEX
Owner Type:	Private
Operator Name:	FEDEX
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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

FEDERAL EXPRESS CORP (Continued) **1004725343**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
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:	FEDEX
Legal Status:	Private
Date Became Current:	19990801
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:	FEDEX
Legal Status:	Private
Date Became Current:	19990801
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:	19990813
Handler Name: FEDERAL EXPRESS CORP	
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

FEDERAL EXPRESS CORP (Continued) **1004725343**

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: 484122
NAICS Description: GENERAL FREIGHT TRUCKING, LONG-DISTANCE, LESS THAN TRUCKLOAD

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B79 **FEDERAL EXPRESS CORP** **RCRA-VSQG** **1010320596**
SE **6450 AIR CARGO RD SE** **FINDS** **MIK663576650**
1/8-1/4 **GRAND RAPIDS, MI 49512** **ECHO**
0.130 mi.
684 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
786 ft.

RCRA-VSQG:
Date Form Received by Agency: 20060615
Handler Name: ABX AIR INC
Handler Address: 6450 AIR CARGO RD SE
Handler City,State,Zip: GRAND RAPIDS, MI 49512
EPA ID: MIK663576650
Contact Name: KEITH WALL
Contact Address: 6450 AIR CARGO RD SE
Contact City,State,Zip: GRAND RAPIDS, MI 49512
Contact Telephone: 616-949-2842
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 05
Land Type: Private
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
State District: Not reported
Mailing Address: 145 HUNTER DR
Mailing City,State,Zip: WILMINGTON, OH 45177
Owner Name: ABX AIR INC
Owner Type: Private
Operator Name: ABX AIR INC
Operator Type: Private
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

FEDERAL EXPRESS CORP (Continued) **1010320596**

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 Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth 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
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
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:	20110303
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:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Hazardous Waste Summary:

Waste Code:	D001
Waste Description:	IGNITABLE WASTE

FEDERAL EXPRESS CORP (Continued) **1010320596**

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	ABX AIR INC
Legal Status:	Private
Date Became Current:	20060601
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:	ABX AIR INC
Legal Status:	Private
Date Became Current:	20060601
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:	20060615
Handler Name: ABX AIR INC	
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:	49211
NAICS Description:	COURIERS AND EXPRESS DELIVERY SERVICES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110003711332

FEDERAL EXPRESS CORP (Continued) **1010320596**

Click Here:

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

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

ECHO:

Envid:	1010320596
Registry ID:	110003711332
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003711332
Name:	FEDERAL EXPRESS CORP
Address:	6450 AIR CARGO RD SE
City,State,Zip:	GRAND RAPIDS, MI 49512

C80 **THORNAPPLE ENTERPRISES LLC** **UST** **U004340402**
ENE **4190 THORNAPPLE RIVER DR** **N/A**
1/8-1/4 **GRAND RAPIDS, MI 49512**
0.145 mi.
768 ft. **Site 1 of 2 in cluster C**

Relative: **Lower**
Actual: **777 ft.**

UST:

Name:	THORNAPPLE ENTERPRISES LLC
Address:	4190 THORNAPPLE RIVER DR
City,State,Zip:	GRAND RAPIDS, MI 49512
Facility Type:	Removed from Ground
Facility ID:	10000281
Owner Name:	Not reported
Owner Address:	3717 CHERRY LANE
Owner City:	ADA
Owner State:	MI
Owner Zip:	49301
Owner Contact:	Not reported
Owner Phone:	6162925701
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	2
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	Not reported
Remove Date:	2019-08-26 00:00:00
Tank Number:	UTK-000120-19

THORNAPPLE ENTERPRISES LLC (Continued) **U004340402**

Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

Name:	THORNAPPLE ENTERPRISES LLC
Address:	4190 THORNAPPLE RIVER DR
City,State,Zip:	GRAND RAPIDS, MI 49512
Facility Type:	Removed from Ground
Facility ID:	10000281
Owner Name:	Not reported
Owner Address:	3717 CHERRY LANE
Owner City:	ADA
Owner State:	MI
Owner Zip:	49301
Owner Contact:	Not reported
Owner Phone:	6162925701
Contact:	Not reported
Contact Phone:	Not reported
Date of Collection:	Not reported
Accuracy:	Not reported
Horizontal Datum:	Not reported
Accuracy Value Unit:	Not reported
Source:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Method of Collection:	Not reported
District:	Not reported
Tank ID:	1
Capacity:	1000
Tank Status:	Removed from Ground
Substance:	Diesel
Install Date:	Not reported
Remove Date:	2019-08-26 00:00:00
Tank Number:	UTK-000119-19
Tank Details Compartments:	Not reported
Tank Release Detection:	Not reported
Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	Not reported
Longitude:	Not reported

C81 **THRONAPPLE ENTERPRISES LLC (FAC10000281)** **LUST** **S125715398**
ENE **4190 THORNAPPLE RIVER DR SE** **INVENTORY** **N/A**
1/8-1/4 **GRAND RAPIDS, MI 49031**
0.145 mi.
768 ft. **Site 2 of 2 in cluster C**

Relative:
Lower

Actual:
777 ft.

LUST:

Name:	THRONAPPLE ENTERPRISES LLC (FAC10000281)
Address:	4190 THORNAPPLE RIVER DR SE
City,State,Zip:	GRAND RAPIDS, MI 49031
Facility ID:	00042998
Source:	Not reported
Owner Name:	Thornapple Enterprises LLC
Owner Address:	3717 Cherry Lane
Owner City,St,Zip:	Cassopolis, MI 49031
Owner Contact:	Not reported
Owner Phone:	Not reported
Country:	USA
District:	Grand Rapids
Site Name:	Thornapple Enterprises LLC (Fac10000281)
Latitude:	Not reported
Longitude:	Not reported
Date of Collection:	Not reported
Method of Collection:	Not reported
Accuracy:	Not reported
Accuracy Value Unit:	Not reported
Horizontal Data:	Not reported
Point Line Area:	Not reported
Desc Category:	Not reported
Regulatory Program:	Not reported
Risk Condition:	Not reported
Project Manager:	Not reported
Senate District:	Not reported
House District:	Not reported
US Congressional District:	Not reported

Leak Number:	C-0192-19
Release Date:	09/03/2019
Substance Released:	Diesel,Diesel
Release Status:	Open
Release Closed Date:	Not reported

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

INVENTORY:

Name:	THORNAPPLE ENTERPRISES LLC
Address:	4190 THORNAPPLE RIVER DR
City,State,Zip:	GRAND RAPIDS, MI 49512
Township:	Cascade
District:	Grand Rapids
Data Source:	Risks Controlled
Location ID:	69089
Lust Name:	Not reported
Regulatory Program:	213
Release Status:	Open
Project Manager:	Walquist, Barrett

THRONAPPLE ENTERPRISES LLC (FAC10000281) (Continued) **S125715398**

Latitude: 42.88812626
Longitude: -85.50497406

82
West
1/4-1/2
0.287 mi.
1515 ft.

4211 CASSARD LANE, GRAND RAPIDS, MI 49512 **INVENTORY** **S125715454**
4211 CASSARD LANE **BEA** **N/A**
GRAND RAPIDS, MI 49512

Relative:
Lower

Actual:
784 ft.

INVENTORY:
Name: 4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address: 4211 CASSARD LANE
City,State,Zip: GRAND RAPIDS, MI 49512
Township: Cascade
District: Grand Rapids
Data Source: Risks Present but Not Immediate
Location ID: 77452
Lust Name: Not reported
Regulatory Program: 01
Release Status: Not reported
Project Manager: Assmann, Aaron
Latitude: 42.88706085
Longitude: -85.51535117

BEA:

Name:	4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address:	4211 CASSARD LANE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	08/23/2019
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:	41002299
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	41002299-BEA-1
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2019-08-30 12:27:27
Date Completed:	1/13/2020
Township:	Cascade
Work Unit:	Grand Rapids
Comments:	Groundwater sample found lead (41 ug/L).
Organization:	Avflight Grand Rapids Corporation
Contact:	Hain, Garrett
Contact Type:	Prospective Operator

Name:	4211 CASSARD LANE, GRAND RAPIDS, MI 49512
Address:	4211 CASSARD LANE
City,State,Zip:	GRAND RAPIDS, MI 49512
Secondary Address:	Not reported

4211 CASSARD LANE, GRAND RAPIDS, MI 49512 (Continued) **S125715454**

BEA Number:	Not reported
District:	Not reported
Date Received:	08/23/2019
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:	41002299
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	41002299-BEA-1
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2019-08-30 12:27:27
Date Completed:	1/13/2020
Township:	Cascade
Work Unit:	Grand Rapids
Comments:	Groundwater sample found lead (41 ug/L).
Organization:	Partner Engineering & Science, Inc.
Contact:	Cook, Susan
Contact Type:	Consultant

Count: 1 records.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
KENTWOOD	S125337637		44TH ST SE WALMA		CDL

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 3
Telephone 215-814-5418

EPA Region 4
Telephone 404-562-8033

EPA Region 5
Telephone 312-886-6686

EPA Region 10
Telephone 206-553-8665

EPA Region 6
Telephone: 214-655-6659

EPA Region 7
Telephone: 913-551-7247

EPA Region 8
Telephone: 303-312-6774

EPA Region 9
Telephone: 415-947-4246

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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

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

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: N/A
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 05/25/2021
Date Data Arrived at EDR: 06/24/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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 know 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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Lists of Federal CERCLA sites with NFRAP

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 11/19/2021
Date Data Arrived at EDR: 11/19/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 87

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

Federal ERNS list

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

Date of Government Version: 12/31/2021
Date Data Arrived at EDR: 03/01/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 9

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/22/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
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: 12/16/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 88

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4035
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 11/08/2021
Date Data Arrived at EDR: 11/11/2021
Date Made Active in Reports: 01/28/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9837
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Annually

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

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

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/14/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 88

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/21/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 86

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 04/11/2022
Next Scheduled EDR Contact: 07/25/2022
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: 10/01/2021
Date Data Arrived at EDR: 11/02/2021
Date Made Active in Reports: 01/25/2022
Number of Days to Update: 84

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Annually

AST: Aboveground Tanks
Registered Aboveground Storage Tanks.

Date of Government Version: 11/10/2021
Date Data Arrived at EDR: 12/01/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 75

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-373-1820
Last EDR Contact: 02/07/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: No Update Planned

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 05/28/2021
Date Data Arrived at EDR: 06/22/2021
Date Made Active in Reports: 09/20/2021
Number of Days to Update: 90

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 04/06/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 02/09/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 10/14/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/12/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 85

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 01/18/2022
Next Scheduled EDR Contact: 05/02/2022
Data Release Frequency: Varies

State and tribal institutional control / engineering control registries

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

Date of Government Version: 11/15/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 12/14/2021
Number of Days to Update: 26

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-4828
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

Lists of state and tribal voluntary cleanup sites

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

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

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 07/08/2021
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

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: 03/16/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/15/2016
Date Data Arrived at EDR: 02/02/2016
Date Made Active in Reports: 04/04/2016
Number of Days to Update: 62

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-4805
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Varies

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

Date of Government Version: 01/19/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 83

Source: Economic Development Corporation
Telephone: 888-522-0103
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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.

Date of Government Version: 02/23/2022
Date Data Arrived at EDR: 03/10/2022
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 0

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/15/2022
Next Scheduled EDR Contact: 06/27/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 88

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-5719
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
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: 01/24/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

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: 04/14/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

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

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 Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
Data Release Frequency: Varies

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: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
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: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5136
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 10/01/2013
Date Data Arrived at EDR: 10/03/2014
Date Made Active in Reports: 10/03/2014
Number of Days to Update: 0

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5103
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: No Update Planned

CDL: Clandestine Drug Lab Listing
A listing of clandestine drug lab locations.

Date of Government Version: 10/22/2021
Date Data Arrived at EDR: 11/23/2021
Date Made Active in Reports: 02/15/2022
Number of Days to Update: 84

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: No Update Planned

DEL PART 201: Delisted List of Contaminated Sites

A deleted site has been removed from the Part 201 List because information known to the DEQ at the time of the evaluation does not support inclusion on the Part 201 List. This designation is often applied to sites where changes in cleanup criteria resulted in a determination that the site no longer exceeds any applicable cleanup criterion. A delisted site has been removed from the Part 201 List because response actions have reduced the levels of contaminants to concentrations which meet or are below the criteria for unrestricted residential use.

Date of Government Version: 08/01/2013
Date Data Arrived at EDR: 08/01/2013
Date Made Active in Reports: 09/11/2013
Number of Days to Update: 41

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 07/22/2019
Next Scheduled EDR Contact: 11/04/2019
Data Release Frequency: Varies

US CDL: Clandestine Drug Labs

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

Date of Government Version: 11/16/2021
Date Data Arrived at EDR: 11/18/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 82

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

PFAS have been widely used in numerous industrial and residential applications since the 1950a??s. 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: 11/12/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 01/31/2022
Number of Days to Update: 80

Source: Department of Environment, Great Lakes & Energy
Telephone: 517-284-9278
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
Data Release Frequency: Varies

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: 10/22/2021
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 03/31/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-7603
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 12/15/2021
Date Data Arrived at EDR: 12/16/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 84

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
Data Release Frequency: Quarterly

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: 06/30/2021
Date Data Arrived at EDR: 07/26/2021
Date Made Active in Reports: 10/20/2021
Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-8427
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/02/2022
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: 02/28/2022
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 15

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 04/06/2022
Next Scheduled EDR Contact: 07/04/2022
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: 10/26/2021
Date Data Arrived at EDR: 11/16/2021
Date Made Active in Reports: 02/08/2022
Number of Days to Update: 84

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/15/2022
Next Scheduled EDR Contact: 05/30/2022
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: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 02/08/2022
Next Scheduled EDR Contact: 05/23/2022
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: 12/13/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/17/2022
Number of Days to Update: 90

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 03/21/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

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

Date of Government Version: 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: 02/03/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 06/27/2022
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.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 02/18/2022
Next Scheduled EDR Contact: 05/30/2022
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: 01/19/2022
Date Data Arrived at EDR: 01/19/2022
Date Made Active in Reports: 04/11/2022
Number of Days to Update: 82

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 01/19/2022
Next Scheduled EDR Contact: 05/02/2022
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: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 06/13/2022
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: 10/20/2021
Date Data Arrived at EDR: 11/05/2021
Date Made Active in Reports: 11/12/2021
Number of Days to Update: 7

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 22

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 05/16/2022
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

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

Date of Government Version: 01/20/2022
Date Data Arrived at EDR: 01/20/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 64

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/08/2022
Next Scheduled EDR Contact: 07/18/2022
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
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

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

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
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: 07/29/2021
Date Data Arrived at EDR: 08/24/2021
Date Made Active in Reports: 11/19/2021
Number of Days to Update: 87

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
Data Release Frequency: Quarterly

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

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 11/30/2021
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 84

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
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
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96

Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 02/04/2022
Next Scheduled EDR Contact: 05/16/2022
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
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 03/28/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing

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

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

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

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

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

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

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

DOT OPS: Incident and Accident Data

Department of Transporation, 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 Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 01/24/2022
Next Scheduled EDR Contact: 05/08/2022
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: 12/31/2021
Date Data Arrived at EDR: 01/14/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 70

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 12/31/2019
Date Data Arrived at EDR: 03/02/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 23

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 03/02/2022
Next Scheduled EDR Contact: 07/04/2022
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: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

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

Date of Government Version: 07/26/2021
Date Data Arrived at EDR: 07/27/2021
Date Made Active in Reports: 10/22/2021
Number of Days to Update: 87

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 01/31/2022
Next Scheduled EDR Contact: 05/16/2022
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.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 01/25/2022
Date Data Arrived at EDR: 02/03/2022
Date Made Active in Reports: 02/22/2022
Number of Days to Update: 19

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 05/03/2022
Next Scheduled EDR Contact: 07/11/2022
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 1931and 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: 11/02/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 02/23/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Semi-Annually

MINES VIOLATIONS: MSHA Violation Assessment Data
Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 03/21/2022
Date Data Arrived at EDR: 03/22/2022
Date Made Active in Reports: 03/25/2022
Number of Days to Update: 3

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/13/2022
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: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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: 12/14/2021
Date Data Arrived at EDR: 12/15/2021
Date Made Active in Reports: 03/10/2022
Number of Days to Update: 85

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 03/04/2022
Next Scheduled EDR Contact: 06/20/2022
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

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

Date of Government Version: 11/04/2021
Date Data Arrived at EDR: 11/22/2021
Date Made Active in Reports: 02/25/2022
Number of Days to Update: 95

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 02/28/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

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

Date of Government Version: 01/01/2022
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 01/10/2022
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/05/2022
Next Scheduled EDR Contact: 07/18/2022
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
Date Data Arrived at EDR: 05/21/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 02/22/2022
Next Scheduled EDR Contact: 06/06/2022
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/11/2022
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 34

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/12/2022
Next Scheduled EDR Contact: 07/25/2022
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: 11/15/2021
Date Data Arrived at EDR: 11/15/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 78

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 02/17/2022
Next Scheduled EDR Contact: 05/30/2022
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

Date of Government Version: 03/15/2022
Date Data Arrived at EDR: 03/16/2022
Date Made Active in Reports: 03/21/2022
Number of Days to Update: 5

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-7074
Last EDR Contact: 03/14/2022
Next Scheduled EDR Contact: 06/27/2022
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing
Asbestos

Date of Government Version: 01/31/2022
Date Data Arrived at EDR: 02/08/2022
Date Made Active in Reports: 02/23/2022
Number of Days to Update: 15

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 04/04/2022
Next Scheduled EDR Contact: 07/18/2022
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: 04/04/2022
Date Data Arrived at EDR: 04/05/2022
Date Made Active in Reports: 04/18/2022
Number of Days to Update: 13

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 05/23/2022
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: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments
A listing of drycleaning facilities in Michigan.

Date of Government Version: 11/09/2021
Date Data Arrived at EDR: 01/12/2022
Date Made Active in Reports: 03/31/2022
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4586
Last EDR Contact: 04/14/2022
Next Scheduled EDR Contact: 07/25/2022
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing
Financial assurance information.

Date of Government Version: 03/18/2022
Date Data Arrived at EDR: 03/30/2022
Date Made Active in Reports: 04/13/2022
Number of Days to Update: 14

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-6610
Last EDR Contact: 03/18/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Semi-Annually

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing
Financial assurance information for underground storage tank facilities.

Date of Government Version: 12/20/2021
Date Data Arrived at EDR: 01/04/2022
Date Made Active in Reports: 03/21/2022
Number of Days to Update: 76

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-335-7279
Last EDR Contact: 03/23/2022
Next Scheduled EDR Contact: 07/11/2022
Data Release Frequency: Varies

Financial 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: 12/15/2021
Date Data Arrived at EDR: 12/17/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 87

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 03/17/2022
Next Scheduled EDR Contact: 07/04/2022
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: 02/24/2022
Next Scheduled EDR Contact: 06/13/2022
Data Release Frequency: Quarterly

NPDES: List of Active NPDES Permits

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

Date of Government Version: 11/18/2021
Date Data Arrived at EDR: 12/21/2021
Date Made Active in Reports: 03/14/2022
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1300
Last EDR Contact: 04/01/2022
Next Scheduled EDR Contact: 07/11/2022
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: 10/18/2021
Date Data Arrived at EDR: 10/26/2021
Date Made Active in Reports: 01/18/2022
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1515
Last EDR Contact: 04/18/2022
Next Scheduled EDR Contact: 08/01/2022
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: 11/23/2021
Date Data Arrived at EDR: 11/29/2021
Date Made Active in Reports: 02/14/2022
Number of Days to Update: 77

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-6562
Last EDR Contact: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
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: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55

Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits

An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2022
Next Scheduled EDR Contact: 07/18/2022
Data Release Frequency: Semi-Annually

MINES MRDS: Mineral Resources Data System

Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3

Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 02/24/2022
Next Scheduled EDR Contact: 06/06/2022
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

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.

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: 11/11/2021
Date Data Arrived at EDR: 11/12/2021
Date Made Active in Reports: 02/01/2022
Number of Days to Update: 81

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 02/11/2022
Next Scheduled EDR Contact: 05/23/2022
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: 04/07/2022
Next Scheduled EDR Contact: 07/18/2022
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: 01/01/2019
Date Data Arrived at EDR: 10/29/2021
Date Made Active in Reports: 01/19/2022
Number of Days to Update: 82

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 01/28/2022
Next Scheduled EDR Contact: 05/09/2022
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: 04/08/2022
Next Scheduled EDR Contact: 07/25/2022
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: 02/14/2022
Next Scheduled EDR Contact: 05/30/2022
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: 03/02/2022
Next Scheduled EDR Contact: 06/20/2022
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 and 2010 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® - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

5500 44TH STREET SE
5500 44TH STREET SE
GRAND RAPIDS, MI 49512

TARGET PROPERTY COORDINATES

Latitude (North):	42.887277 - 42° 53' 14.20"
Longitude (West):	85.509049 - 85° 30' 32.58"
Universal Tranverse Mercator:	Zone 16
UTM X (Meters):	621751.3
UTM Y (Meters):	4749160.5
Elevation:	787 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	14450376 GRAND RAPIDS EAST, MI
Version Date:	2019
Northeast Map:	14457477 CASCADE, MI
Version Date:	2019
Southeast Map:	14457473 ALTO, MI
Version Date:	2019
Southwest Map:	14450350 CALEDONIA, 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).

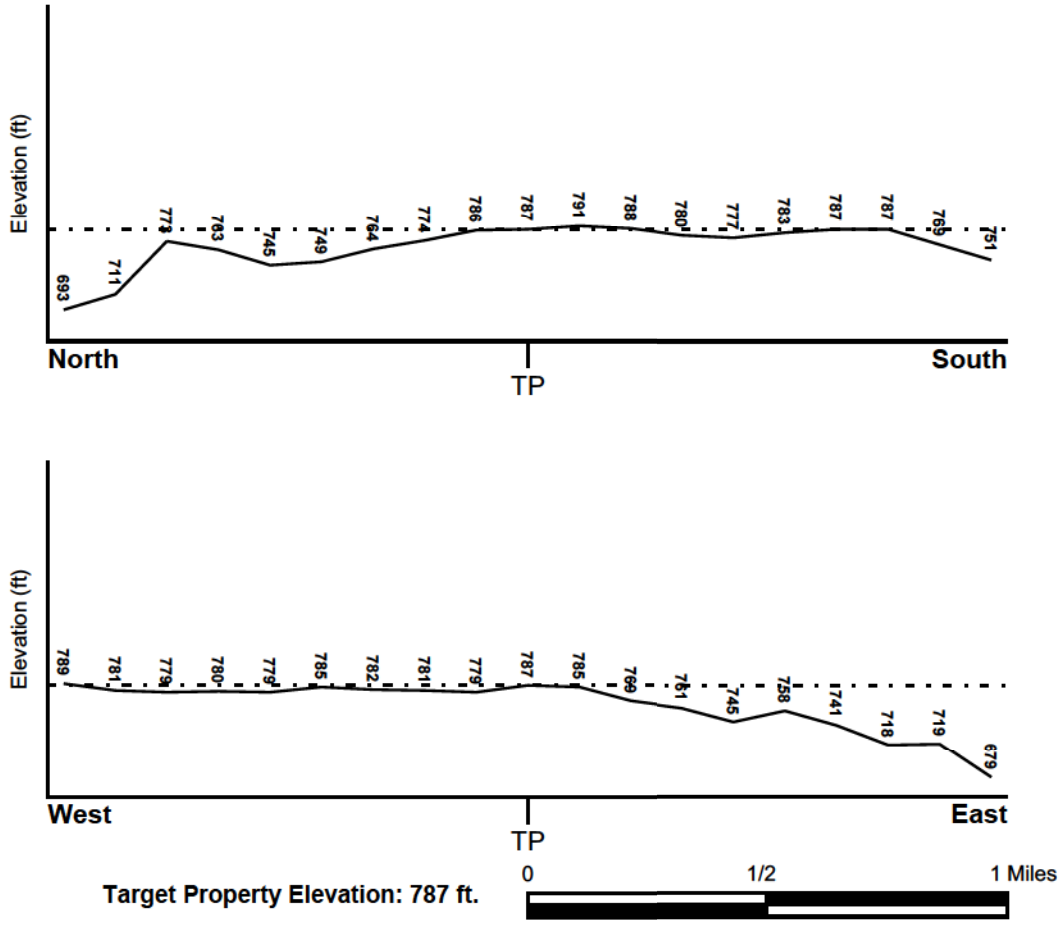
TOPOGRAPHIC INFORMATION

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 NNE

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

Flood Plain Panel at Target Property	FEMA Source Type
2608140025A	FEMA Q3 Flood data

Additional Panels in search area:	FEMA Source Type
26015C0025C	FEMA FIRM Flood data
26015C0050C	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
GRAND RAPIDS EAST	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.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
24	1/2 - 1 Mile WSW	S
1G	1/2 - 1 Mile WSW	S

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

* ©1996 Site--specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

Era:	Paleozoic
System:	Mississippian
Series:	Meramecian Series
Code:	M2 *(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:	ITHACA
Soil Surface Texture:	loam
Hydrologic Group:	Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class:	Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

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

Corrosion Potential - Uncoated Steel:	HIGH
Depth to Bedrock Min:	> 60 inches
Depth to Bedrock Max:	> 60 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
	Boundary			Classification			
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil	Permeability Rate (in/hr)	Soil Reaction (pH)
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.10
2	10 inches	15 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand.	Max: 0.60 Min: 0.20	Max: 7.30 Min: 5.10
3	15 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 7.80 Min: 5.10
4	24 inches	60 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.20 Min: 0.06	Max: 8.40 Min: 7.90

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: loamy sand
sandy loam

Surficial Soil Types: loamy sand
sandy loam

Shallow Soil Types: silty clay loam
loamy fine sand
sand
loamy sand

Deeper Soil Types: silty clay loam
clay
fine sand

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

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

STATE DATABASE WELL INFORMATION

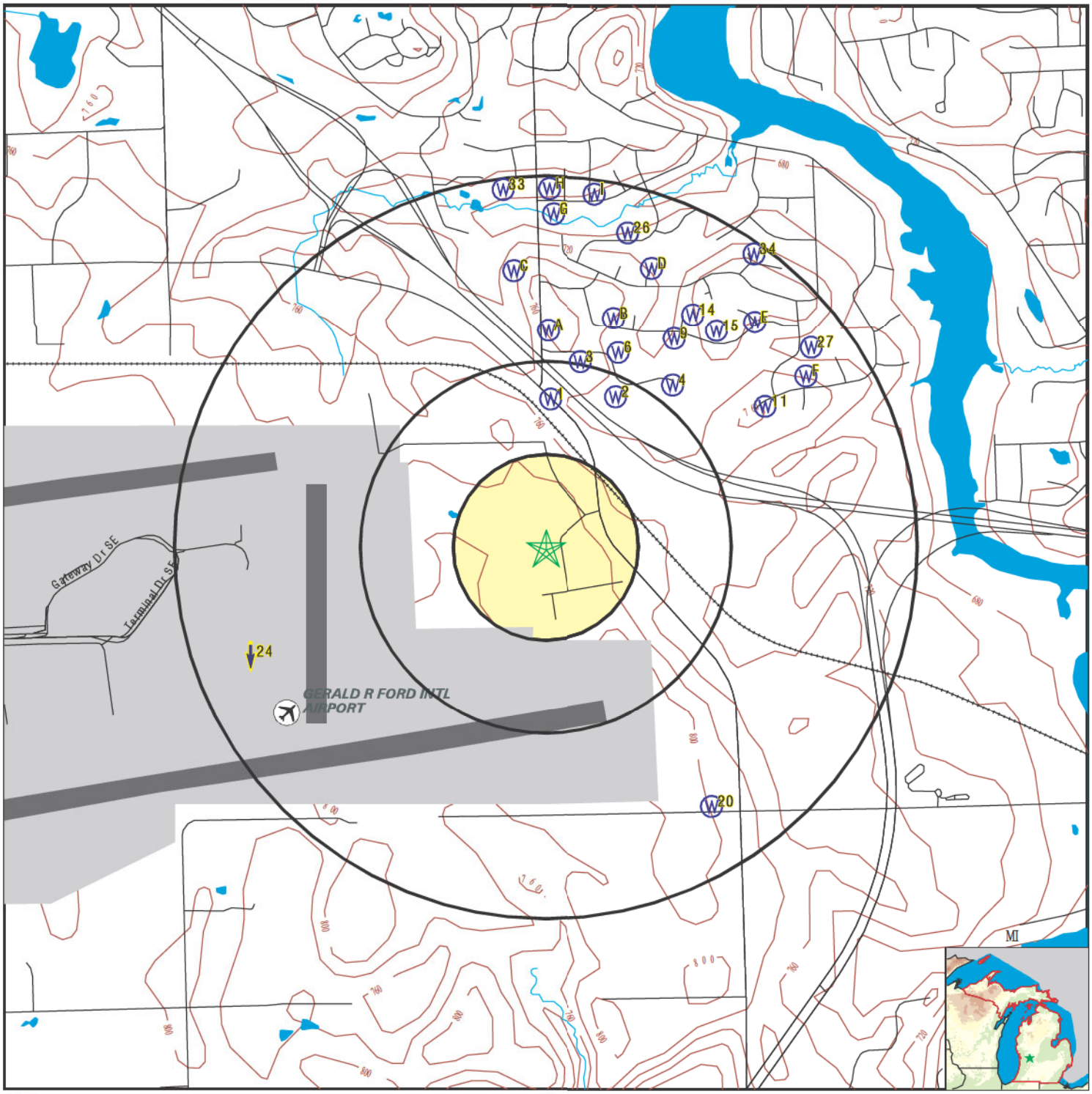
MAP ID	WELL ID	LOCATION FROM TP
1	MI5000000598252	1/4 - 1/2 Mile North
2	MI5000000598254	1/4 - 1/2 Mile NNE
3	MI5000000610601	1/2 - 1 Mile North
4	MI5000000619033	1/2 - 1 Mile NE
A5	MI5000000611528	1/2 - 1 Mile North
6	MI5000000598251	1/2 - 1 Mile NNE
A7	MI5000000617723	1/2 - 1 Mile North
B8	MI5000000619927	1/2 - 1 Mile NNE
9	MI5000000605629	1/2 - 1 Mile NNE
B10	MI5000000615934	1/2 - 1 Mile NNE
11	MI5000000639036	1/2 - 1 Mile ENE
C12	MI5000000598238	1/2 - 1 Mile North
C13	MI5000000598250	1/2 - 1 Mile North
14	MI5000000618782	1/2 - 1 Mile NNE
15	MI5000000605612	1/2 - 1 Mile NE
D16	MI5000000614943	1/2 - 1 Mile NNE
C17	MI5000000598253	1/2 - 1 Mile North
E18	MI5000000603782	1/2 - 1 Mile NE
D19	MI5000000604611	1/2 - 1 Mile NNE
20	MI5000000598324	1/2 - 1 Mile SSE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
F21	MI5000000616234	1/2 - 1 Mile NE
E22	MI5000000616157	1/2 - 1 Mile NE
F23	MI5000000621643	1/2 - 1 Mile ENE
G25	MI5000000598226	1/2 - 1 Mile North
26	MI5000000615748	1/2 - 1 Mile NNE
27	MI5000000631916	1/2 - 1 Mile NE
G28	MI5000000616521	1/2 - 1 Mile North
H29	MI5000000639419	1/2 - 1 Mile North
H30	MI5000000617990	1/2 - 1 Mile North
I31	MI5000000626040	1/2 - 1 Mile North
I32	MI5000000610749	1/2 - 1 Mile North
33	MI5000000611874	1/2 - 1 Mile North
34	MI5000000619178	1/2 - 1 Mile NE
H35	MI5000000598217	1/2 - 1 Mile North

PHYSICAL SETTING SOURCE MAP - 6946680.2s



- 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:	5500 44th Street SE	CLIENT:	BLDI Consultants
ADDRESS:	5500 44th Street SE Grand Rapids MI 49512	CONTACT:	Ashley Plocharczyk
		INQUIRY #:	6946680.2s
LAT/LONG:	42.887277 / 85.509049	DATE:	April 19, 2022 3:37 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
MI WELLS	MI5000000598252

1
North
1/4 - 1/2 Mile
Lower

Well ID:	41000001952	Permit #:	Not Reported
Owner:	BEALL, TOM	Well Depth (ft):	93
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:	Not Reported	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19710220
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	85
Screen Start Depth (ft):	85	Screen End Depth (ft):	93
Static Water Level (ft):	32	Flowing:	N
Test Drawdown Depth:	32	Test Hours:	3
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	745	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000598254

2
NNE
1/4 - 1/2 Mile
Lower

Well ID:	41000001954	Permit #:	Not Reported
Owner:	CASCADE TOWNSHIP	Well Depth (ft):	61
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2081941	Well #:	001
Driller ID:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19961004
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	53
Screen Start Depth (ft):	53	Screen End Depth (ft):	61
Static Water Level (ft):	27	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	20	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	13
Elevation (ft):	745	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000610601

3
North
1/2 - 1 Mile
Lower

Well ID:	41000016507	Permit #:	Not Reported
Owner:	CASCADE CHARTER TWP	Well Depth (ft):	98
Well Type:	Type II Public	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	2001741	Well #:	001
Driller ID:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20040714

Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	85
Screen Start Depth (ft):	85	Screen End Depth (ft):	98
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	40	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	13
Elevation (ft):	748	Specific Capacity:	0
Rock Top (ft):	0		

4
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000619033**

Well ID:	41000026925	Permit #:	Not Reported
Owner:	cascade twp	Well Depth (ft):	183
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:	41-2351	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20160428
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	163
Screen Start Depth (ft):	0	Screen End Depth (ft):	0
Static Water Level (ft):	42	Flowing:	N
Test Drawdown Depth:	140	Test Hours:	2
Test Water Flow Rate:	75	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	60
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	145		

A5
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000611528**

Well ID:	41000017498	Permit #:	Not Reported
Owner:	KEVIN MAUER	Well Depth (ft):	100
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:	70-2055	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20050429
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	90
Screen Start Depth (ft):	90	Screen End Depth (ft):	100
Static Water Level (ft):	68	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	3
Test Water Flow Rate:	15	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
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

6
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598251**

Well ID:	41000001951	Permit #:	Not Reported
Owner:	SHURLOW CUSTOM HOMES	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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19870225
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	105
Screen Start Depth (ft):	105	Screen End Depth (ft):	110
Static Water Level (ft):	60	Flowing:	N
Test Drawdown Depth:	60	Test Hours:	1
Test Water Flow Rate:	42	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	740	Specific Capacity:	0
Rock Top (ft):	0		

A7
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000617723**

Well ID:	41000025373	Permit #:	Not Reported
Owner:	Sable Developing	Well Depth (ft):	103
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:	41-2351	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20131023
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	98
Screen Start Depth (ft):	98	Screen End Depth (ft):	103
Static Water Level (ft):	68	Flowing:	N
Test Drawdown Depth:	103	Test Hours:	2
Test Water Flow Rate:	25	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

B8
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000619927**

Well ID:	41000027978	Permit #:	Not Reported
Owner:	Ben	Well Depth (ft):	99
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:	70-1922	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20170717

Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	94
Screen Start Depth (ft):	94	Screen End Depth (ft):	99
Static Water Level (ft):	39	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	1
Test Water Flow Rate:	30	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

9
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000605629**

Well ID:	41000010635	Permit #:	Not Reported
Owner:	JIM CHRISTIANS	Well Depth (ft):	97
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20000803
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	89
Screen Start Depth (ft):	89	Screen End Depth (ft):	97
Static Water Level (ft):	81	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	14	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

B10
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000615934**

Well ID:	41000023277	Permit #:	Not Reported
Owner:	MARK MAMCZARZ	Well Depth (ft):	73
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:	41-0395	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20111111
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	63
Screen Start Depth (ft):	63	Screen End Depth (ft):	73
Static Water Level (ft):	29	Flowing:	N
Test Drawdown Depth:	32	Test Hours:	2
Test Water Flow Rate:	55	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	20
Elevation (ft):	0	Specific Capacity:	1.71875
Rock Top (ft):	0		

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
11 **ENE** **1/2 - 1 Mile** **Lower**	**MI WELLS**	**MI5000000639036**

Well ID:	41000048250	Permit #:	Not Reported
Owner:	RON RODEN	Well Depth (ft):	135
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:	41-2028	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20210429
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	128
Screen Start Depth (ft):	128	Screen End Depth (ft):	135
Static Water Level (ft):	93	Flowing:	N
Test Drawdown Depth:	133	Test Hours:	1
Test Water Flow Rate:	100	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

	Database	EDR ID Number
C12 **North** **1/2 - 1 Mile** **Lower**	**MI WELLS**	**MI5000000598238**

Well ID:	41000001938	Permit #:	Not Reported
Owner:	DRACHT, TOM BLDR	Well Depth (ft):	55
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19801120
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	47
Screen Start Depth (ft):	47	Screen End Depth (ft):	55
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	730	Specific Capacity:	0
Rock Top (ft):	0		

	Database	EDR ID Number
C13 **North** **1/2 - 1 Mile** **Lower**	**MI WELLS**	**MI5000000598250**

Well ID:	41000001950	Permit #:	Not Reported
Owner:	BROYLES, DAVID	Well Depth (ft):	60
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19821203

Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	52
Screen Start Depth (ft):	52	Screen End Depth (ft):	60
Static Water Level (ft):	20	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	772	Specific Capacity:	0
Rock Top (ft):	0		

14
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000618782**

Well ID:	41000026603	Permit #:	Not Reported
Owner:	KEVIN IRLAND	Well Depth (ft):	98
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:	41-2028	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20151207
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	89
Screen Start Depth (ft):	89	Screen End Depth (ft):	98
Static Water Level (ft):	58	Flowing:	N
Test Drawdown Depth:	96	Test Hours:	1
Test Water Flow Rate:	22	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	18
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

15
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000605612**

Well ID:	41000010618	Permit #:	Not Reported
Owner:	JIM JANN	Well Depth (ft):	123
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20000710
Casing Type:	Steel-black	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	115
Screen Start Depth (ft):	115	Screen End Depth (ft):	123
Static Water Level (ft):	89	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	30	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
MI WELLS	MI5000000614943

D16
NNE
1/2 - 1 Mile
Lower

Well ID:	41000021987	Permit #:	Not Reported
Owner:	JASON BRINKS	Well Depth (ft):	109
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:	41-1994	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20090106
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	104
Screen Start Depth (ft):	105	Screen End Depth (ft):	109
Static Water Level (ft):	64	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	1
Test Water Flow Rate:	25	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000598253

C17
North
1/2 - 1 Mile
Lower

Well ID:	41000001953	Permit #:	Not Reported
Owner:	QUIGLEY ASSOC.	Well Depth (ft):	75
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19800122
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	70
Screen Start Depth (ft):	70	Screen End Depth (ft):	75
Static Water Level (ft):	50	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	750	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000603782

E18
NE
1/2 - 1 Mile
Lower

Well ID:	41000008246	Permit #:	Not Reported
Owner:	Mike Hekstra	Well Depth (ft):	92
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:	41-0384	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20000324

Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	82
Screen Start Depth (ft):	82	Screen End Depth (ft):	92
Static Water Level (ft):	58	Flowing:	N
Test Drawdown Depth:	85	Test Hours:	2
Test Water Flow Rate:	15	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0.17647059
Rock Top (ft):	0		

D19
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000604611**

Well ID:	41000009592	Permit #:	Not Reported
Owner:	Dawn Bronkema	Well Depth (ft):	145
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:	41-1095	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20020315
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	140
Screen Start Depth (ft):	140	Screen End Depth (ft):	145
Static Water Level (ft):	63	Flowing:	N
Test Drawdown Depth:	80	Test Hours:	.5
Test Water Flow Rate:	15	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0.1875
Rock Top (ft):	0		

20
SSE
1/2 - 1 Mile
Higher

MI WELLS **MI5000000598324**

Well ID:	41000002027	Permit #:	Not Reported
Owner:	FORBES, HAROLD	Well Depth (ft):	145
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:	41-0073	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	19790623
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	140
Screen Start Depth (ft):	140	Screen End Depth (ft):	145
Static Water Level (ft):	103	Flowing:	N
Test Drawdown Depth:	103	Test Hours:	1
Test Water Flow Rate:	30	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	0
Elevation (ft):	802	Specific Capacity:	0
Rock Top (ft):	0		

Map ID
Direction
Distance
Elevation

Database	EDR ID Number
MI WELLS	MI5000000616234

F21
NE
1/2 - 1 Mile
Lower

Well ID:	41000023651	Permit #:	Not Reported
Owner:	Gary Koff	Well Depth (ft):	123
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20120827
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	114
Screen Start Depth (ft):	114	Screen End Depth (ft):	118
Static Water Level (ft):	87	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	.5
Test Water Flow Rate:	70	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000616157

E22
NE
1/2 - 1 Mile
Lower

Well ID:	41000023557	Permit #:	Not Reported
Owner:	Pete Donker	Well Depth (ft):	130
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:	03-1601	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20120625
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	120
Screen Start Depth (ft):	120	Screen End Depth (ft):	130
Static Water Level (ft):	70	Flowing:	N
Test Drawdown Depth:	90	Test Hours:	1
Test Water Flow Rate:	20	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	15
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

Database	EDR ID Number
MI WELLS	MI5000000621643

F23
ENE
1/2 - 1 Mile
Lower

Well ID:	41000029866	Permit #:	Not Reported
Owner:	Andrew Alt	Well Depth (ft):	126
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20180728

Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	118
Screen Start Depth (ft):	118	Screen End Depth (ft):	126
Static Water Level (ft):	90	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	1
Test Water Flow Rate:	70	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	12
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

24
WSW
1/2 - 1 Mile
Higher

AQUIFLOW **27728**

Site ID:	410423
Groundwater Flow:	S
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	2.3
Date:	09/01/1992

G25
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598226**

Well ID:	41000001926	Permit #:	Not Reported
Owner:	SHURLOW, BILL	Well Depth (ft):	87
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19751108
Casing Type:	Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	82
Screen Start Depth (ft):	82	Screen End Depth (ft):	87
Static Water Level (ft):	40	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	0
Elevation (ft):	680	Specific Capacity:	0
Rock Top (ft):	0		

26
NNE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000615748**

Well ID:	41000023042	Permit #:	Not Reported
Owner:	Kevin Yoder	Well Depth (ft):	70
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20110616
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	60
Screen Start Depth (ft):	60	Screen End Depth (ft):	70
Static Water Level (ft):	44	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	1
Test Water Flow Rate:	33	Test Method:	PLUGR

Well Grouted:	Y	Pump Capacity (gpm):	14
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

27
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000631916**

Well ID:	41000040841	Permit #:	Not Reported
Owner:	Jack Borr, Contr	Well Depth (ft):	85
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19860116
Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	0	Casing Depth (ft):	0
Screen Start Depth (ft):	80	Screen End Depth (ft):	85
Static Water Level (ft):	50	Flowing:	U
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	UNK
Well Grouted:	N	Pump Capacity (gpm):	11
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

G28
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000616521**

Well ID:	41000024015	Permit #:	Not Reported
Owner:	DAVID REESE	Well Depth (ft):	48
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:	41-0395	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20130516
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	38
Screen Start Depth (ft):	38	Screen End Depth (ft):	48
Static Water Level (ft):	2	Flowing:	N
Test Drawdown Depth:	12	Test Hours:	2
Test Water Flow Rate:	40	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	3.33333333
Rock Top (ft):	0		

H29
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000639419**

Well ID:	41000048646	Permit #:	Not Reported
Owner:	R AND M BUECHE	Well Depth (ft):	47
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:	41-0761	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	19920724
Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	37
Screen Start Depth (ft):	37	Screen End Depth (ft):	47
Static Water Level (ft):	7	Flowing:	U
Test Drawdown Depth:	0	Test Hours:	1.5
Test Water Flow Rate:	35	Test Method:	UNK
Well Grouted:	Y	Pump Capacity (gpm):	23
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

H30
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000617990**

Well ID:	41000025673	Permit #:	Not Reported
Owner:	JERRY GRAHAM	Well Depth (ft):	45
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:	41-2028	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20150113
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	38
Screen Start Depth (ft):	38	Screen End Depth (ft):	45
Static Water Level (ft):	8	Flowing:	N
Test Drawdown Depth:	43	Test Hours:	1
Test Water Flow Rate:	31	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	20
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

I31
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000626040**

Well ID:	41000034866	Permit #:	Not Reported
Owner:	Robert Kreha	Well Depth (ft):	100
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:	41-2554	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20201202
Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	95
Screen Start Depth (ft):	95	Screen End Depth (ft):	100
Static Water Level (ft):	31	Flowing:	N
Test Drawdown Depth:	98	Test Hours:	2
Test Water Flow Rate:	40	Test Method:	AIR
Well Grouted:	Y	Pump Capacity (gpm):	10
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

I32
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000610749**

Well ID:	41000016661	Permit #:	Not Reported
Owner:	PAUL NICHOLSON	Well Depth (ft):	40
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:	41-1552	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20040615
Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	32
Screen Start Depth (ft):	32	Screen End Depth (ft):	40
Static Water Level (ft):	11	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	17	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	11
Elevation (ft):	0	Specific Capacity:	0
Rock Top (ft):	0		

33
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000611874**

Well ID:	41000017982	Permit #:	Not Reported
Owner:	BRIAN HOLCOMB	Well Depth (ft):	48
Well Type:	Irrigation	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Water Supply Serial #:	0	Well #:	Not Reported
Driller ID:	41-1772	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	20040608
Casing Type:	Steel-Unknown	Other Casing Info:	Not Reported
Casing Diameter (in):	4	Casing Depth (ft):	39
Screen Start Depth (ft):	39	Screen End Depth (ft):	48
Static Water Level (ft):	17	Flowing:	N
Test Drawdown Depth:	38	Test Hours:	1
Test Water Flow Rate:	30	Test Method:	PLUGR
Well Grouted:	Y	Pump Capacity (gpm):	21
Elevation (ft):	0	Specific Capacity:	0.78947368
Rock Top (ft):	0		

34
NE
1/2 - 1 Mile
Lower

MI WELLS **MI5000000619178**

Well ID:	41000027093	Permit #:	Not Reported
Owner:	Melissa Anglin	Well Depth (ft):	110
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:	41-2554	Drill Method:	ROTARY
Other Method Info:	Not Reported	Construction Date:	20160531

Casing Type:	PVC Plastic	Other Casing Info:	Not Reported
Casing Diameter (in):	5	Casing Depth (ft):	105
Screen Start Depth (ft):	105	Screen End Depth (ft):	110
Static Water Level (ft):	90	Flowing:	N
Test Drawdown Depth:	100	Test Hours:	2
Test Water Flow Rate:	12	Test Method:	TSTPUM
Well Grouted:	Y	Pump Capacity (gpm):	10
Elevation (ft):	0	Specific Capacity:	0.12
Rock Top (ft):	0		

H35
North
1/2 - 1 Mile
Lower

MI WELLS **MI5000000598217**

Well ID:	41000001917	Permit #:	Not Reported
Owner:	FARMWALD DEVELOPMENT CORP.		
Well Depth (ft):	69	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:	41-0384
Drill Method:	Cable Tool	Other Method Info:	Not Reported
Construction Date:	19811023	Casing Type:	Steel-black
Other Casing Info:	Not Reported	Casing Diameter (in):	4
Casing Depth (ft):	64	Screen Start Depth (ft):	64
Screen End Depth (ft):	69	Static Water Level (ft):	22
Flowing:	N	Test Drawdown Depth:	0
Test Hours:	4	Test Water Flow Rate:	25
Test Method:	UNK	Well Grouted:	N
Pump Capacity (gpm):	0	Elevation (ft):	710
Specific Capacity:	0	Rock Top (ft):	0

1G
WSW
1/2 - 1 Mile
Lower

AQUIFLOW **27728**

Site ID:	410423
Groundwater Flow:	S
Shallowest Water Table Depth:	Not Reported
Deepest Water Table Depth:	Not Reported
Average Water Table Depth:	2.3
Date:	09/01/1992

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
49512	12/28/1998	<	0.3
49512	8/21/2003		0.5
49512	2/3/2004	<	0.3
49512	10/3/2006	<	0.3
49512	11/11/2005		0.5
49512	3/17/2007		0.5
49512	10/8/2004	<	0.3
49512	3/3/2003	<	0.3
49512	2/10/2003	<	0.3
49512	2/18/2002	<	0.3
49512	2/16/2004	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	10/6/2008	<	0.3
49512	5/12/2008	<	0.3
49512	10/6/2008	<	0.3
49512	12/8/2001	<	0.3
49512	11/7/1998	<	0.3
49512	4/16/2008	<	0.3
49512	3/12/2002		0.8
49512	11/26/2001		0.8
49512	2/1/2002		0.7
49512	1/19/2004		0.7
49512	2/4/2002		0.8
49512	10/2/2003		0.8
49512	4/2/2007		0.8
49512	11/5/1999		0.7
49512	4/4/2008		0.9
49512	1/24/2009		0.8
49512	9/15/2009		0.8
49512	2/22/2000		0.9
49512	11/8/1999		0.9
49512	2/3/2009		0.6
49512	11/2/1998		0.5
49512	11/19/2001		0.7
49512	11/23/1998		0.6
49512	3/26/1997		0.6
49512	11/9/1998		0.5
49512	11/13/1998		0.5
49512	12/22/1998		0.7
49512	12/2/1998		0.7
49512	3/30/2009		0.9
49512	1/11/1999		0.5
49512	12/18/1998		0.7
49512	12/21/2002		0.6
49512			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

	12/26/2006		1.6
49512	11/16/2007		1.5
49512	5/4/2009		1.5
49512	8/5/2002		1.5
49512	11/24/2001		1.5
49512	11/26/2001		1.4
49512	3/9/2009		1.4
49512	10/3/2008		1.4
49512	11/1/2008		1.4
49512	10/29/1998		1.3
49512	12/9/1998		1.2
49512	2/2/2009		1.3
49512	2/16/2001		1.2
49512	12/18/2006		1.2
49512	4/30/1998		1.1
49512	11/20/2000		1.1
49512	4/14/2008		1.1
49512	3/3/2003		1.0
49512	2/2/2009		1.1
49512	2/2/2009		1.1
49512	12/8/2008		1.1
49512	2/12/1999		1.0
49512	1/25/2008		1.0
49512	10/27/2000		4.2
49512	9/26/2008		4.3
49512	2/22/2002		1.8
49512	7/31/2009		1.8
49512	12/18/1998		1.7
49512	11/29/2002		1.7
49512	7/31/2009		6.3
49512	8/27/2001		6.1
49512	11/6/1998		4.7
49512	12/18/1998		5.0
49512	11/17/1998		4.6
49512	10/30/1997		5.2
49512	10/10/1998		11.0
49512	7/24/2006		8.1
49512	11/19/2009		2.0
49512	11/18/1998		0.8
49512	11/2/1998		2.5
49512	4/10/1998		2.4
49512	11/27/1999		2.3
49512	11/18/2000		2.3
49512	2/2/2009		2.3
49512	11/16/1998		2.7
49512	11/17/1998		2.9
49512	2/5/2007		2.7
49512	8/21/2008		2.7
49512	2/17/2009	<	0.3
49512	11/20/2000	<	0.3
49512	12/6/1999	<	0.3
49512	6/11/2001	<	0.3
49512	6/1/2007		3.2
49512	12/19/2000	<	0.3
49512	7/3/2009	<	0.3

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for KENT County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for KENT COUNTY, MI

Number of sites tested: 72

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.100 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.797 pCi/L	93%	7%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

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

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

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

State Wetlands Data: Wetlands Inventory
Source: Department of Natural Resources
Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

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

GEOLOGIC INFORMATION

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

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

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data
Source: Department of Environmental Quality
Telephone: 517-335-9218
The data in this file was obtained from Wellogic, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogic 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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APPENDIX E

Historical Research Documentation

BLDI

Phase I Environmental Site Assessment

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.8

April 19, 2022

The EDR Aerial Photo Decade Package

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

EDR Aerial Photo Decade Package

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.8

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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:

Year	Scale	Details	Source
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
1999	1"=500'	Acquisition Date: April 13, 1999	USGS/DOQQ
1987	1"=500'	Flight Date: June 23, 1987	USDA
1981	1"=500'	Flight Date: May 02, 1981	USDA
1978	1"=500'	Flight Date: July 17, 1978	USDA
1974	1"=500'	Flight Date: April 01, 1974	USGS
1965	1"=500'	Flight Date: November 01, 1965	USGS
1955	1"=500'	Flight Date: October 10, 1955	USDA
1938	1"=500'	Flight Date: July 04, 1938	USDA

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INQUIRY #: 6946651.8
YEAR: 2016
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 6946651.8

YEAR: 2006

= 500'

N

EDR

INQUIRY #: 6946651.8

YEAR: 1999

= 500'

N

EDR

INQUIRY #: 6946651.8
YEAR: 1987
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1981
= 500'
N
EDR

INQUIRY #: 6946651.8

YEAR: 1978

= 500'

N

EDR

INQUIRY #: 6946651.8
YEAR: 1974
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1965
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1955
= 500'
N
EDR

INQUIRY #: 6946651.8
YEAR: 1938
= 500'
N
EDR

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.3

April 19, 2022

Certified Sanborn® Map Report

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

Certified Sanborn® Map Report

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.3

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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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 # A646-4A2D-B4CE

PO # 225360.01

Project A1 and A28

UNMAPPED PROPERTY

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Sanborn® Library search results

Certification #: A646-4A2D-B4CE

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- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

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CASCADE CHARTER TOWNSHIP

5920Tahoe Dr. SE Grand Rapids, Michigan 49546

Notice of Denial of FOIA Request

Michigan Freedom of Information Act, Public Act 442 of 1976, MCL 15.231, *et seq.*

RE: Request for ☑ Copy ☐ Certified copy ☐ Record inspection ☐ Subscription to record

Name: ASHLEY PLOCHARCZYK	Phone: 616-459-3737
Firm/Organization: BLDI, INC.	Fax:
Street: 39111 SIX MILE ROAD	Email: ashleyp@bldi.com
City: LIVONIA	State: MI Zip: 48152

Date Request Received: 4/25/22 **Date of This Response:** 4/25/22

Record(s) Requested: SEE ATTACHED

☑ **All** or ☐ **part of your request for records has been denied. Please refer to this form for an explanation. If you have any questions regarding this denial, contact** Ben Swayze **at** bswayze@cascadetwp.com.

Reason for Denial:

☐ **1. This item is exempt from disclosure under FOIA Section 13, Subsection (_____), because:** _____

☑ **2. This item does not exist under the name provided in your request or by another name reasonably known to the township. If you believe this record does exist, provide a description that will enable us to locate the record.**

NO RELEVANT RECORDS LOCATED

☐ **3. A portion of the requested record had to be separated or deleted as it is exempt under FOIA Section 13, Subsection (_____), because:** _____

A brief description of the information that had to be separated or deleted: _____

Notice of Requestor's Right to Seek Judicial Review

You are entitled under Section 10 of the Michigan Freedom of Information Act, MCL 15.240, to appeal this denial to the Township Supervisor or to commence an action in the Circuit Court to compel disclosure of the requested records if you believe they were wrongfully withheld from disclosure. If you are successful in asserting the right to inspect or to receive a copy of a public record or a portion of a public record in court, the court will award reasonable attorney fees, costs, and disbursements. If you prevail in part of your action, the court may in its discretion award reasonable attorney fees, costs, and disbursements or an appropriate portion of those attorney fees, costs, and disbursements. (*See FOIA Policies and Guidelines for additional information on your rights.*)

Signature of FOIA Coordinator: Ben Swayze Date: 4-25-22

Ashley Plocharczyk

From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 4:36 PM
To: Ashley Plocharczyk
Cc: Rachel Kane
Subject: RE: FOIA Request
Attachments: FOIA Request - BLDI (4.22) (Response).pdf

Thank you for the clarification Ashley. Attached is the response to your FOIA request. It is technically a denial as we do not have any relevant information. Being a vacant parcel, there are no water/sewer or building department records. There have been no Cascade Township Fire Department responses to this site (the airport has it's own fire department) and assessing records are only for the airport as a whole. If you have any questions, or need additional information, please contact me accordingly.

Take Care,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 3:16 PM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Yes, that is confirmed. We are only requesting information per the attached marked out parcels and not per the entire airport parcel.

Thank you,

Ashley Plocharczyk
Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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From: Ben Swayze <bswayze@cascadetwp.com>
Sent: Monday, April 25, 2022 3:06 PM
To: Ashley Plocharczyk <ashleyp@bldi.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: RE: FOIA Request

Good Afternoon Ashley -

Thanks for reaching out. Can you please confirm that you are only looking for documentation specific to the sites called out on the map, and not the entire 41-19-20-300-020 parcel (which is essentially the entire airport)

Thanks,
Ben

Benjamin Swayze
Township Manager
Phone 616.949.1500
Email
bswayze@cascadetwp.com
Web www.cascadetwp.com
5920 Tahoe Dr. SE
Grand Rapids, MI 49546

From: Ashley Plocharczyk <ashleyp@bldi.com>
Sent: Monday, April 25, 2022 9:37 AM
To: Ben Swayze <bswayze@cascadetwp.com>
Cc: Rachel Kane <rachelk@bldi.com>
Subject: FOIA Request

Good morning,

BLDI is currently conducting a Phase I Environmental Site Assessment for two portions of the property identified as 5500 44th Street SE, Cascade Charter Township, Kent County, MI 49512; PID: 41-19-20-300-020. Aerial snippets of these proposed parcels are attached.

We would like to request the following information from the appropriate departments:
Assessing Records (any other pertinent historical information)
Fire Department Records (fire damage and/or hazardous material related situations)
Water and Sewer Connection/Installation Dates

AND Only if Available:
Building Department Records (building dates/utility connections/floor drain discharge points)

Please feel free to contact me with any questions or if we need to contact someone else for this information.

Thank you for your time and assistance!

Ashley Plocharczyk

Associate Project Manager

BLDI, Inc.
Environmental Engineering
39111 Six Mile Road
Livoina, MI 48152
ashleyp@bldi.com
Cell: 248-308-8455
Grand Rapids Office: 616-459-3737

Engineers, Geologists & Scientists

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A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512

Inquiry Number: 6946651.5
April 22, 2022

The EDR-City Directory Image Report

EDR® Environmental Data Resources Inc

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

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

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Report is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Report includes a search of available city directory data at 5 year intervals.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

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

Year	Target Street	Cross Street	Source
2017	☑	☑	EDR Digital Archive
2014	☑	☑	EDR Digital Archive
2010	☑	☑	EDR Digital Archive
2005	☑	☑	EDR Digital Archive
2000	☑	☑	EDR Digital Archive
1995	☑	☑	EDR Digital Archive
1992	☑	☑	EDR Digital Archive
1987	☑	☑	Bresser's Cross-Index Directory Company
1982	☑	☑	Bresser's Cross-Index Directory Company
1977	☑	☑	Bresser's Cross-Index Directory Company
1972	☑	☑	Bresser's Cross-Index Directory Company
1967	☑	☑	Bresser's Cross-Index Directory Company
1962	☑	☑	Bresser's Cross-Index Directory Company
1959	☑	☑	Bresser's Cross-Index Directory Company
1953	☐	☐	Polk's City Directory
1948	☐	☐	Polk's City Directory
1942	☐	☐	Polk's City Directory
1938	☐	☐	Polk's City Directory
1933	☐	☐	Polk's City Directory

EXECUTIVE SUMMARY

Year	Target Street	Cross Street	Source

FINDINGS

TARGET PROPERTY STREET

5500 44th Street SE
Grand Rapids, MI 49512

Year	CD Image	Source	
44TH ST SE			
2017	pg A2	EDR Digital Archive	
2014	pg A7	EDR Digital Archive	
2010	pg A12	EDR Digital Archive	
2005	pg A18	EDR Digital Archive	
2000	pg A23	EDR Digital Archive	
1995	pg A26	EDR Digital Archive	
1992	pg A29	EDR Digital Archive	
1987	pg A32	Bresser's Cross-Index Directory Company	
1982	pg A35	Bresser's Cross-Index Directory Company	
1977	pg A37	Bresser's Cross-Index Directory Company	
1977	pg A38	Bresser's Cross-Index Directory Company	
1972	pg A40	Bresser's Cross-Index Directory Company	
1967	pg A42	Bresser's Cross-Index Directory Company	
1962	pg A44	Bresser's Cross-Index Directory Company	
1959	pg A46	Bresser's Cross-Index Directory Company	
1953	-	Polk's City Directory	Target and Adjoining not listed in Source
1948	-	Polk's City Directory	Target and Adjoining not listed in Source
1942	-	Polk's City Directory	Street not listed in Source
1938	-	Polk's City Directory	Street not listed in Source
1933	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

Year	*CD Image*	*Source*	
THORNAPPLE RIVER DR SE			
2017	pg. A6	EDR Digital Archive	
2014	pg. A11	EDR Digital Archive	
2010	pg. A17	EDR Digital Archive	
2005	pg. A22	EDR Digital Archive	
2000	pg. A25	EDR Digital Archive	
1995	pg. A28	EDR Digital Archive	
1992	pg. A31	EDR Digital Archive	
1987	pg. A33	Bresser's Cross-Index Directory Company	
1987	pg. A34	Bresser's Cross-Index Directory Company	
1982	pg. A36	Bresser's Cross-Index Directory Company	
1977	pg. A39	Bresser's Cross-Index Directory Company	
1972	pg. A41	Bresser's Cross-Index Directory Company	
1967	pg. A43	Bresser's Cross-Index Directory Company	
1962	pg. A45	Bresser's Cross-Index Directory Company	
1959	pg. A47	Bresser's Cross-Index Directory Company	
1959	pg. A48	Bresser's Cross-Index Directory Company	
1953	-	Polk's City Directory	Street not listed in Source
1948	-	Polk's City Directory	Street not listed in Source
1942	-	Polk's City Directory	Street not listed in Source
1938	-	Polk's City Directory	Street not listed in Source
1933	-	Polk's City Directory	Street not listed in Source

City Directory Images

Target Street	Cross Street	Source
✔	-	EDR Digital Archive

44TH ST SE 2017

2425	REDBOX
2450	DEL MAR RECOVERY SOLUTIONS
	GALAXY BUSINESS CONSULTING
	GROF MICHAEL W DO
	KENNETH GRAY DDS
	LEADER LIGHTS
	LIBERTY MUTUAL
	MARIJKE H WIERSEMA DDS
	TIME OUT GR
2480	BROOK J BISONET ATTY
	CROSSROAD BIBLE INSTITUTE
	DONALD R VISSER ATTY
	PROGRESSIVE AFFILIATED LUMBERMAN PAL
	TYLER N HAYES ATTORNEY
	VISSER & ASSOCIATES PLLC
2591	HT ENGINEERING
	KOSIUR JAMES DO
	KOSIUR, JAMES
	PHYSIOTHERAPY
2627	ASCENSION LUTHERAN CHURCH
2674	KENTWOOD PUBLIC SCHOOLS
2687	ADVISORY INTERNATIONAL
	HUNT FOR A CURE
	REGAL FINANCIAL GROUP LLC
2718	BASKIN, TANISHA R
	BORTON, DONALD E
	CLARK, SUBRENA D
	CONLEY, CYNTHIA R
	FERGUSON, MARK J
	GLEASON, MARY K
	JONES, ELIZABETH
	SNIDER, OLLIE
	WOODS, JUDY
2736	BLUE, GREEN
2738	DHIMAL, DADI
2740	KHATIWADA, TILA
2742	DHUNGANA, KUMAR
2750	KULIC, OSMANA
2754	SHERPA, PHURBA
2756	SHIRLEY, TAYLOR
3140	MILLER, TWILA M
3230	BOST, KEN K
3268	MENEZES, JACEY
3325	KUELPER, KEVIN L
3631	B & G PRODUCTS
	CINTAS
	INTERFACE INNOVATIONS
	LINCARE
	RENEWAL BY ANDERSEN
	REPCOLITE PAINTS INC

3631	SKYE CONTRACTING
3650	ID ENGINEERING & AUTOMATED SYSTEMS
	SWISS CLEAN INC
3680	COMMUNITY FIRST HOME CARE LLC
	CROSSWAY TRANSPORT
	DEAF & HARD OF HEARING SERVICES
	MICHIGAN WEST APPRAISAL INC
	PLAS PRO INC
	PRIMERICA
	ROLLSTOCK INC
	TOP FLITE FINANCIAL INC
	V & M MARKETING INC
	WILSON & ASSOCIATES
3695	BTU PRODUCTS DBA METPCO LLC
	METPCO LLC
3777	CENTER FOR INQUIRYMICHIGAN
3820	FORBERG SCIENTFIC INC
3826	HEALTH MOTION PHYSICAL THERAPY SERVI
3828	AMERIFIRST FINANCIAL
	ATILA TRUCKING LLC
3850	CATCH A MEMORY BALLS
	GROOTER S TEMPLATE MANUFACTURING
	T & T ENGRAVING
3852	PRINTING PRODUCTIONS INK
3854	FB WRIGHT
3858	THESE LAST DAYS
	THESE LAST DAYS MINISTRIES
3862	AUTOCHLOR SYSTEM
3950	I D ENGINEERING & AUTOMATED SYSTEM
3952	UNIQUE TRUCK EQUIPMENT
3954	MEDICAL ID SYSTEMS
3956	AUTOEXEC INC
	INRAD
3965	ALTENFORF AMERICA
	STILES MACHINERY
3990	AUTOEXEC INC
	GENIUS PHONE REPAIR
4160	FUN SERVICES
4180	FOX TRANSPORTATION
	GZA GOENVIRONMENTAL INC
	MAKSOR MORTGAGE GROUP
	NUWAVE TECHNOLOGY PARTNERS
	PROJECT PHILIP
	REALVESCO PROPERTIES
	STATEWIDE DISASTER RESTORATION WEST
4215	RPH SDA CHURCH
4245	BLUEWATER TECHNOLOGIES
	CITY TRANSFER
	NAVIS PACK & SHIP
	SOLID WORKS

4245	TON TEX CORPORATION
	VERSAPAK
4300	FRANKLIN KENTWOOD
	X RITE INC
4345	DECKER CONSTRUCTION
	DECKER, C
	HAARTMAN, KRIS L
	MIDPOINT RESTORATION OF WEST MICHIGA
	PROSOURCE WHOLESALE FLOORCOVERINGS
	VAN BELKUM COMPANIES LLC
4425	FASTENAL
4426	P & J DELIVERY
4435	STEEL SYSTEMS INC
	TRANTEK AUTOMATION CORP
4445	BEARING DISTRIBUTORS
	S & S CARPETS
4455	COMPLETESOURCE
4460	8 NORTH STAFFING LLC
	COMPULIT INC
	CONCENTREK INC
	COUNTRY FRESH
	EMERGENCY SERVICES INSURANCE
	GRW TECHNOLOGIES INC
	HARLEQUIN USA
	MORETTI & MURPHY REPORTING
	NOVITEX ENTERPRISE SOLUTIONS
	PITNEY BOWES
	ROBERT GROOTERS DEVELOPMENT CO
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY
	THE NOAKES GROUP
	TOOLING TECHNOLOGIES
	VAN GO DELIVERY LLC
4470	RANIR
4480	FAMILY CHRISTIAN LLC
4495	INSTROTEK
4575	PHARMERICA
	STONE PRO LLC
4602	HOFFMAN CONSULTANTS
4604	GROUP MARKETING SERVICES
4607	REMEX CORPORATION
4612	SIGN WORKS
4616	CUSTOM CRAFT
	SPORTABOUT
4620	PROGRESSIVE BUILDING SERVICES INC
	SIGN WORKS
4632	SWANSON INMATE COMMISSARY SERVICES I
4635	ATTORNEYS TITLE AGENCY
	N T H CONSULTANTS LTD
	TREE INC GRAND RPDS OFC

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

44TH ST SE 2017 (Cont'd)

4650	SUNRISE FOODS
4665	LANGUAGES INTERNATIONAL INC
	ONSITE
	ORTHOPAEDIC ASSOCIATES OF MICHIGAN O
	STEVENS MOVING & STORAGE
	STEVENS WORLDWIDE VAN LINES
	THE CLOSING OFFICE
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	MARYANNS CHOCOLATES
	QUEST
	TREE INC GRAND RPDS OFC
4720	I M & A
	NEWSPORTALS
	SCOTT J & ASSOCIATES
	STONE RIVER INTERACTIVE
4740	DATUM INDUSTRIES LLC
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5500	AIRPORT RESTAURANTS
	ALAMO RENT A CAR
	BISSELL
	ENTERPRISE RENTACAR
	GERALD R FORD INTERNATIONAL AIRPORT
	GRAND RAPIDS AIR CENTER
	HERTZ CAR RENTAL
	MAYDAY AVIONICS INC
	MEGADATA CORP
	NATIONAL CAR RENTAL
	NORTHERN AIR INC
	NORTHERN JET
	SERVISAIR

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2017

3290	FRENCH, ANDREW A
3312	GOULDING, TOM A
3334	HALE, MOLLY F
3390	QUINT, DANIELLE D
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3521	FONNESBECK, EMILY J
3530	BATES, JILL P
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	MITIDIERI, FRANK V
3637	HODGES, JAMES B
3639	WENK, JEFFREY R
3640	DISCOVERY DENTAL LAB
3706	MIDDLESTADT, AMY M
3726	PENNING, ROBERT D
4196	WEST MICHIGAN BRICK & STONE

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

44TH ST SE 2014

2425	WALGREENS
2450	BRETON OFFICE CENTER LLC
	DOERING ALAN DR
	DOERING, ALAN C
	KENNETH GRAY DDS
	LIBERTY MUTUAL
	MICHAEL W GROF
	TIME OUT GR
	WIERSEMA MARIJKE H DDS
2480	BISONET BROOK J ATTY
	CROSSROAD BIBLE INSTITUTE
	CROSSROADS BIBLE INSTITUE
	GUINAN JOHN M
	HAYES TYLER N ATTY
	INFINITECH INC
	VISSER & ASSOCIATES PLLC
	VISSER DONALD R ATTY
2589	BRETON MANOR OF HOLLAND HOME
	REHAB DIMENSIONS OF HOLLAND HOME
2591	KOSIUR JAMES DO
	KOSIUR, JAMES
	PHYSIOTHERAPY
2627	ASCENSION LUTHERAN CHURCH
2674	KENTWOOD PUBLIC SCHOOLS
2687	ADVISORY INTERNATIONAL
	HUNT FOR A CURE
	REGAL FINANCIAL GROUP LLC
2710	CRANDALL, LYNNE A
2718	BORTON, DONALD E
	CLARK, SUBRENA D
	CRADDOCK, RACHAEL L
	SNIDER, OLLIE
	WOODS, JUDY
2720	HOANG, LIEM V
2736	BLUE, GREEN
2738	OCCUPANT UNKNOWN,
2740	LIKLEY, SMITH
2742	WRIGHT, OLIVETTE M
2749	OCCUPANT UNKNOWN,
2750	KULIC, OSMANA
2752	KULIC, HUSREF
2754	HUSEF, KULIC
2756	DHIMAL, DADI
2780	IKON OFFICE SOLUTIONS
3070	OCCUPANT UNKNOWN,
3140	CIOFANI, STEPHEN
	HOLSTON, DEVIN M
	MURRELL, BRIAN C
3230	MASSONG, MARGARET J
3268	OCCUPANT UNKNOWN,

44TH ST SE 2014 (Cont'd)

3325	KUELPER, KEVIN L
3535	ACCESS 24 44TH ST
3631	B & G PRODUCTS
	CBI INC
	CINTAS
	CINTAS FIRE PROTECTION & FIRE SYSTEM
	CINTAS FIRST AID SUPPLIES & SAFETY
	CINTAS PAPER SHREDDING & DOCUMENT SH
	LINCARE INFUSION SERVICES
	NUTRA FOOD INGREDIENTS
	REPCOLITE PAINTS INC
3650	ID ENGINEERING & AUTOMATED SYSTEMS
	PHOENIX FLOOR CARE SYSTEMS
	SWISS CLEAN INC
3680	COMMUNITY FIRST HOME CARE LLC
	MICHIGAN WEST APPRAISAL INC
	PLAS PRO INC
	PRIMERICA
	TOP FLITE FINANCIAL MORTGAGE
	WILSON & ASSOCIATES
3695	BTU PRODUCTS DBA METPCO LLC
	PRODUCTS BTU
	SYNERGIS TECHNOLOGY GROUP
3744	BANCROFT, JAN M
3760	FREYLING, REIMER A
3777	CENTER FOR INQUIRY MICHIGAN
	W PRR 1680 PUBLIC REALITY RADIO
3823	OCCUPANT UNKNOWN,
3826	HEALTH MOTION PHYSICAL THERAPY SERVI
3828	ATILA TRUCKING LLC
3839	EITEL, WILLIAM E
3850	CATCH A MEMORY BALLS
	GROOTERS TEMPLATE MANUFACTURING
	T & T ENGRAVING
3852	PRINTING PRODUCTIONS INK
3854	FB WRIGHT
3858	THESE LAST DAYS
	THESE LAST DAYS MINISTRIES
3862	AUTOCHLOR SYSTEM
3900	BRENNTAG
3952	UNIQUE TRUCK EQUIPMENT
3956	AUTOEXEC INC
	INRAD
3965	ALTENFORF AMERICA
	STILES MACHINERY
3990	AUTOEXEC INC
4130	BRAUN MACHINERY INC
4160	A 1 TENT RENTAL SERVICES
	ELECTRA LTD
	FUN SERVICES

Target Street	Cross Street	Source
✔	-	EDR Digital Archive

44TH ST SE 2014 (Cont'd)

4180	FOX TRANSPORTATION
	NUWAVE TECHNOLOGY PARTNERS
	PROJECT PHILIP
	REALVESCO PROPERTIES
	STATEWIDE DISASTER RESTORATION WEST
4215	RPH SDA CHURCH
4245	BLUEWATER TECHNOLOGIES
	CITY TRANSFER
	NEW DIMENSION BUILDING
	SOLID WORKS
	TON TEX CORPORATION
4300	FRANKLIN KENTWOOD
	X RITE
	X RITE INC
4345	BELKUM VAN
	DECKER CONSTRUCTION
	DECKER, C
	DEVELOPMENT REALTY
	PROSOURCE WHOLESALE FLOORCOVERINGS
	VAN BELKUM COMPANIES LLC
	VAN BELKUM TRANSCRIPTION SERVICE
4435	STEEL SYSTEMS INC
	TRANTEK AUTOMATION CORP
4440	KERRY INC
4445	BEARING DISTRIBUTORS
	S & S CARPETS
4460	CONCENTREK INC
	HARLEQUIN USA
	HELLOLIFE LLC
	LANGUAGES INTERNATIONAL INC
	MORETTI & MURPHY REPORTING
	NOAKES GROUP THE
	PITNEY BOWES
	ROBERT GROOTERS DEVELOPMENT CO
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY
	TOOLING TECHNOLOGIES
	UTI TRANSPORTATION MANAGEMENT INC
4470	RANIR
4475	ADVANCED IMAGING SOLUTIONS
	INTEGRATED PACKAGING MACHINERY LLC
4575	PHARMERICA
	STONE PRO LLC
4602	HOFFMAN CONSULTANTS
4604	GROUP MARKETING SERVICES
	GROUP MARKETING SERVICES INC
4607	REMEX CORPORATION
4616	CUSTOM CRAFT
	CUSTOM DESIGNS
	SPORT ABOUT

44TH ST SE 2014 (Cont'd)

4618	IMS GROUP USA
4620	PROGRESSIVE BUILDING SERVICES INC
4626	P & J DELIVERY SERVICE
4632	SWANSON INMATE COMMISSARY SERVICES I
	SWANSON INMATE COMMISSION
4635	AIM FINANCIAL
	MERCY HEALTH PLANS
	N T H CONSULTANTS LTD
4650	SUNRISE FOODS
4665	AEROTEK
	BELCAN ENGINEERING
	ONSITE
	ORTHOPAEDIC ASSOCIATES OF MICHIGAN O
	PENNSYLVANIA LIFE INSURANCE COMPANY
	STEVENS WORLDWIDE VAN LINES
	THE CLOSING OFFICE
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	HONEYWELL HOME & BUILDING CONTROL
	MARYANNS CHOCOLATES
	OAK TRUST CREDIT UNION
	TREE INC GRAND RPDS OFC
4710	COMPATICO
4720	IM & A
	INFORMATION MANAGERS & ASSOCIATES
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5363	HOME HEALTH SERVICES INC
	WEST MICHIGAN AVIATION ACADEMY
5500	AIRPORT RESTAURANTS
	ALAMO RENT A CAR
	BISSELL
	COUNTY OF KENT
	GERALD R FORD INTERNATIONAL AIRPORT
	GRAND RAPIDS AIR CENTER
	MAYDAY AVIONICS INC
	MEGADATA CORP
	NORTHERN AIR
	NORTHERN JET
	SERVISAIR
	UNITED STATES GOVERNMENT

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2014

3290	FRENCH, ANDREW A
3312	GOULDING, TOM A
3334	HALE, MOLLY F
3390	OCCUPANT UNKNOWN,
3408	OCCUPANT UNKNOWN,
3426	OCCUPANT UNKNOWN,
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3521	OCCUPANT UNKNOWN,
3530	BATES, JILL P
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	OCCUPANT UNKNOWN,
3637	HODGES, JAMES B
3640	DISCOVERY DENTAL LAB
3706	MIDDLESTADT, AMY M
3726	PENNING, ROBERT D
4173	CASTLEMAN, TERESA
4190	THORNAPPLE EXCAVATING INC
4196	WEST MICHIGAN BRICK & STONE STONE PR

Target Street	Cross Street	Source
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44TH ST SE 2010

2425	SATELLITE RECEIVERS LTD
	WALGREENS
2450	DOERING ALAN C DDS
	GROF MICHAEL W DO
	LIBERTY MUTUAL
	MATCH MAKER INTL
	NEURAL PLANET
	SINGSTOCK SCOTT DDS
2480	KENTWOOD PHARMACY
	PROGRESSIVE INSURANCE
	VISSER & ASSOC
2591	GRAND RAPIDS ORTHOPEDICS
	KOSIUR JAMES DO
	PHYSIOTHERAPY ASSOCIATES INC
2627	ASCENSION LUTHERAN CHURCH
	PENTECOSTALS OF KENTWOOD
2674	CRESTWOOD MIDDLE SCHOOL
2687	CFS GROUP LLC
	HUNT FOR A CURE
	KILLEEN GROUP
	REGAL FINANCIAL GROUP
2710	CLAPP, DILLON
	CRANDALL, LYNN A
2718	CLARK, SUBRENA D
	DAVIS, DEBRA M
	GARCIA, JESUS R
	HIGGINS, KAMERON L
	HOBSON, FRANCES
	MITCHUM, MAURICE
	TETT, KURT
2720	HOANG, LIEM V
2730	FEGEL, DALE
2740	LIKLEY, SMITH
2742	DEWEY, DAVID C
2749	CISCO, JOHN W
2750	KULIC, OSMANA
2754	HUSEF, KULIC
2756	HERNANDEZ, FRANCISCO J
3149	ASQUITH, GREGORY T
3230	BOST, KEN K
3325	GEREN, AMANDA
3535	ACCESS 24 SELF STORAGE
3599	44TH STREET SELF STORAGE
3631	A J RV DISTRIBUTORS
	B & G PRODUCTS
	CBI GRAND RAPIDS INC
	CBI INC
	NUTRA FOOD INGREDIENTS
	PREMIER GARAGE OF GRAND RAPIDS
	REPCOLITE PAINTS INC

3650	SWISS CLEAN INC
3680	DERRIN, LEIGH
	FINANCIAL ARCHTECTS
	G W DEHAAN REAL ESTATE
	GEORGE ZENDER & ASSOC
	JOSEPH KLOOSTERMAN AGENCY
	KEN CHESTERMAN & ASSOC
	MEDASSIST
	MICHIGAN WEST APPRAISAL INC
	MPTC
	TOTAL DESIGN CONCEPTS LLC
	WEST EDGE MEDIA CORP
	WILSON & ASSOC
3695	TRIMLINE TOOL INC
3760	FREYLING, REIMER A
3777	CENTER FOR INQUIRYMICHIGAN
	WPRR
3820	FORBERG SCIENTIFIC INC
3822	PCT
3823	PELL, JEROLD
3824	T ROSEMA & ASSOC
3826	HEALTH MOTION PERFORMANCE
	HEALTH MOTION PHYSICAL THERAPY
3828	AMERIFIRST FINANCIAL
	GOLDEN MORTGAGE CORP
3839	EITEL, WILLIAM E
3850	AUTOCHLOR SYSTEM
	CATCHAMEMORY BALLS
	GROOTERS TEMPLATE MFG
	T & T ENGRAVING
3852	AMERICAN DISTRICT TELEGRAPH CO
	PRINTING PRODUCTIONS INK
3854	F B WRIGHT CO
3862	PRODUCT INNOVATIONS & DEVMNT
3900	BRENNTAG GREAT LAKES
	CUSTOM MATTE
3901	STILES MACHINERY INC
3950	I D ENGINEERING & AUTOMATED
3952	MOBILE AIR INC
3954	MEDICAL ID SYSTEMS
3956	BELFOR
3965	STILES MACHINERY INC
4130	BRAUN MACHINERY CO
4160	A1 TENT RENTAL SVC
	ELECTRA LIMITED
	FUN SERVICES
4180	CAPITAL UNION
	MAKSOR MORTGAGE GROUP
	MEDICAL LANGUAGE SPECIALISTS
	MICRONET PUBLISHING

4180	SCHELDE NORTH AMERICA
	SENIOR FINANCIAL ADVISORS LLC
	STATEWIDE DISASTER RESTORATION
	TOWN & COUNTRY TITLE AGENCY
4188	ADVANTAGE INVESTORS MORTGAGE
4242	MAC DONALDS INDL PRODUCTS
4245	BLUE WATER TECHNOLOGIES
	I Q CARTRIDGE
	SOLID WORKS
	VERSAPAK
4300	GRETAG MACBETH LLC
	ROBERT BOSCH CORPDIESEL TECH
	XRITE INC
4345	DECKER CONSTRUCTION
	DEVELECON PROPERTIES LLC
	DEVELOPMENT REALTY
	PINIKA
	QUALITY TRANSCRIPTION
	VAN BELKUM LLC
4425	FASTENAL CO
4435	STEEL SYSTEMS INC
4440	KERRY INC
4445	BEARING DISTRIBUTORS INC
4455	COMPLETE SOURCE
4460	ACCESS PROGRAMMING GROUP INC
	BRAMBLE & ASSOC
	BROADMOOR FINANCIAL SVC INC
	CDV ASSOCIATES PLLC
	CONCENTREK INC
	FILD SALES & CONSULTING LLC
	GREAT LAKES BOTTLED WATER CO
	GRW
	HARLEQUIN USA
	HEALTH CARE SOLUTIONS AGENCY
	INDUSTRIAL SYSTEMS
	LANGUAGES INTERNATIONAL
	NOAKES GROUP
	PITNEY BOWES LEGAL SOLUTIONS
	SCOPE TRANSPORTATION
	SELECT 1 PROPERTY MGMT
	TAKE CHARGE PRODUCTIONS
	TOOLING TECHNOLOGIES
	VAN GO DELIVERY LLC
4470	AMERICAN STORAGE & LOGISTICS
	J KALTZ & CO
4475	ADVANCED IMAGING SOLUTIONS
4490	ELAN NUTRITION INC
4495	PROBITY ENGINEERING SVC LLC
4525	KENDALL ELECTRIC INC
4575	AVI SYSTEMS

44TH ST SE 2010 (Cont'd)

4575	PHARMERICA
	WYKE DIE & ENGINEERING INC
4602	HOFFMAN CONSULTANTS LLC
4604	GROUP MARKETING SVC
4607	C D & H SUPPORT SVC
	SUPPLY CHAIN SOLUTIONS
4610	COMMERCIAL MAGIZINE
4616	EMODEL
	OPTIONS TALENT
	SPORTABOUT
4618	IMEC USALLC
	NEWMA CO LLC
	WEITEK USA
4620	SIGNWORKS OF MICHIGAN INC
4632	SWANSON SERVICES CORP
4635	HORIZON BILLING SPECIALISTS
	MERCY HEALTH PLANS
	MICHIGAN FOR SALE BY OWNER
	NTH CONSULTANTS LTD
	OCE CORPORATE PRINTING DIV
	OCE NORTH AMERICA
4650	SUNRISE FOODS
4656	LIGHT TECH
4665	AEROTEK
	GRAND IMAGING
	PENNSYLVANIA LIFE INSURANCE CO
	SPEEDWAY
	TRADESMEN INTERNATIONAL
4695	CTGY
	HONEYWELL
	MANUFACTURING ACTION GROUP INC
	MARYANNS CHOCOLATES
	WESCO DISTRIBUTION INC
4710	COMPATICO
4740	DATUM INDUSTRIES LLC
4765	FIFTH THIRD BANK
4782	PRODUCTION TOOL SUPPLY
5289	AVIS RENT A CAR
5351	PARAMOUNT DISPATCH
5446	STEEL CASE
5500	AMERICAN AIRLINES INC
	AVIATION GROUND SVC
	AVIS RENT A CAR
	BUDGET RENT A CAR
	ENTERPRISE RENTACAR
	GERALD R FORD INTL AIRPORTGRR
	GRESHAM SMITH & PARTNERS
	HERTZ RENT A CAR
	KENT COUNTY AERONAUTICS DEPT
	KENT INTERMEDIATE SCHOOL DIST

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44TH ST SE 2010 (Cont'd)

5500 MAYDAY AVIONICS INC
MUNCIE AVIATION CO
NORTHERN JET MANAGEMENT
PARAMOUNT AVIATION
R & R TECHNOLOGIES INC
SERVISAIR
SMARTE CARTE
STARBUCKS
US AIRWAY FACILITIES OFFICE
US FAA
US FLIGHT STANDARDS DISTRICT

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2010

3312	GOULDING, TOM A
3334	RASBERRY, RICCARDO
3390	QUINT, WAYNE R
3464	GRAHAM, JOHN P
3530	GUTEK, ROB S
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3608	KNIGHT, CHRIS J
3611	MITIDIERI, MONICA M
	MONICAS BEST GOURMET COOKIES
3637	HODGES, JAMES B
3639	SCHRAGG, JACQUELI
3640	DISCOVERY DENTAL LABORATORIES
3726	PENNING, ROBERT D
4190	THORNAPPLE EXCAVATING INC

Target Street	Cross Street	Source
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44TH ST SE 2005

2450	AC DOERING DR
	HEALTHY SMILE
	LIBERTY MUTUAL INSURANCE GROUP
	MATCHMAKER INTERNATIONAL
	ONA, SUZZETTE
	SCOTT SINGSTOCK DDS PC
	SINGSTOCK DDS PC
	SINGSTOCK, SCOTT
	WILLIAMS GROUP
2480	PROGRESSIVE AFFILIATED LUMBERMAN
2510	CHRISTENSEN, HENRIETTA
2535	BUG OFF INSPECTIONS
	ECKBERG MOTOR REBUILDING INC
2589	BRETON MANOR
	HOLLAND HOME BRETON MANOR
	RIVER CITY MECHANICAL
2591	GRAND RAPIDS ORTHOPEDIC PETER S VASI
	KOSIUR, JAMES
	PETER S VASUI DO
	SALES, CHERYL D
2674	KENTWOOD PUBLIC SCHOOLS
2687	CARDINAL RULE LLC
	KILLEEN GROUP THE
	SHOWOFF PROMOTIONS
2710	CRANDALL, LYNNE A
2718	BORTON, DONALD J
	CLARK, SUBRENA
	DIAZ, LUIS A
	HODGES, C D
	HORSLEY, LATARSHA
	KAMINSKI, LEWIS
	MONTALVO, LILLIAN
	POTTS, LISA
	REASER, MELVIN
	SCHWALLIER, DENNIS
	SMITH, ANTHONY
2720	HOANG, LIEM
2736	OCCUPANT UNKNOWN,
2738	FERGUSON, JOCKLYN
2740	RUNNER, PHILLIP
2742	LANDERO, JESUS
2749	CISCO, JOHN W
2750	CHAPIN, DAVID S
2752	HERNANDEZ, FRANCISCO
2754	OCCUPANT UNKNOWN,
2756	OCCUPANT UNKNOWN,
3070	OCCUPANT UNKNOWN,
3075	OCCUPANT UNKNOWN,
3140	BRAUN MACHINERY CO INC
	OCCUPANT UNKNOWN,

Target Street	Cross Street	Source
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44TH ST SE 2005 (Cont'd)

3149	OCCUPANT UNKNOWN,
3230	MASSONG, MARGARET J
3268	PROPERTY ACQUISITIONS INC
3322	OCCUPANT UNKNOWN,
3325	KUELPER, KEVIN L
3350	OCCUPANT UNKNOWN,
3499	44TH STREET SELF STORAGE
3599	44TH ST SOUTH STORAGE LLC
3631	B & G PRODUCTS LLC
	INTERFACE MACHINE TOOL SALS
	INTERFACE TECHNOLOGIES INC
	REPCOLITE PAINTS
	TECH FINANCIAL SERVICES
3650	SWISS CLEAN INC
3680	ALPHA CHRISTIAN REGISTRY
	DEHAAN, STEPHEN W
	MFS FUNDING INC
	MICROCHIP TECHNOLOGIES
	MOBILIFE FINANCIAL SERVICES
	RER CAPITAL LLC
	RICH GOTCH
	THIRD COAST SOFTWARE
3690	ALPHA CHRISTIAN REGISTRY INC
3744	ELLIOTT, SALLY D
3760	FREYLING, REIMER A
3777	GOODRICH RADIO MARKETING INC
	WDSS AM
3820	FORBERG SCIENTIFIC INC
3823	PELL, JEROLD
3824	ROSEMA T & ASSOCIATES
3826	HEALTH MOTION PHYSICAL THERAPY
3839	EITEL, WILLIAM E
3850	AUTO CHLOR
3852	ADT SECURITY SERVICES INC
	AMERICAN DIST TELEGRAPH
3854	F B WRIGHT CO
3900	HOEKSTRA PRINTING CO INC
3950	ID ENGINEERING & AUTOMATED SYS
	ID ENGINEERING AUTOMATED SYSTEMS
3952	MICHIGAN PUBLIC PHONE CO
3954	MEDICAL I D SYSTEMS INC
3965	ALTENDORF AMERICA CO
	STILES MACHINERY INC
3990	IMA AMERICA CORP
4160	ELECTRALUME
	FARMERS INSURANCE GROUP
	RIDE SERVICE INC
4180	2660 LEONARD LLC
	ALUWAX DENTAL PRODUCTS CO
	CHRISTIAN PSYCHOLOGICAL SERVICES PC

44TH ST SE 2005 (Cont'd)

4180	CUSTOM FABRICATORS INC
	GEORGE WESTON BAKERY
	INDIGO FINANCIAL GROUP INC
	REALVESCO / NEW AMERICAN INTERNATION
	REMICO LLC
	SCHELDE NORTH AMERICA
	WOODS, DON R
4215	LSI CREDIT UNION
4242	MACDONALDS INDUSTRIAL PRODUCTS
4245	AVALON FINANCIAL CORP
	DP BROWN OF DETROIT
	MULTIAX AMERICA INC
	MULTIAX CNC INC
	VFP FIRE SYSTEMS
4300	BOSCH KENTWOOD
	DIESEL TECH CO LTD PARTNER
	DIESEL TECHNOLOGY CORP
	STEEL CASE INC
	STEEPLECHASE WOOD FURNITURE
4345	DECKER CONSTRUCTION INC
4405	ERIE CONSTRUCTION MID WEST INC
4425	SPECIALTY MACHINE SERVICE INC
4440	YMCA
4455	COMPLETE SOURCE INC
4460	COMPULIT INC
	COUNTY FRESH CORP
	NORTHERN FALLS LLC
4470	G R PRODUCTS LTD
	J KALTZ CO
4475	INTEGRATED PACKAGE MACHINERY
4480	DYNAFLEX CORP
	FAM CHRISTIAN STORES OUTLET
	ULTRAFOAM INC
4490	ELAN NUTRITION LLC
4495	PROBITY ENGINEERING LLC
4525	FITZPATRICK ELECTRIC
	GREAT LAKES AUTOMATION SUPPLY
4575	AVI SYSTEMS
	WYKE DIE & ENGINEERING INC
4602	GROUP ENGINEERING INC
	MCGEEHAN, MICHAEL
4607	REMEX SYSTEMS GROUP
4610	CLARK NETWORK ENTERPRISES
4612	MARQUISE FINANCIAL SERVICES INC
4632	SWANSON INMATE COMMISSARY SERVICE CO
	SWANSON SERVICES
4635	HORIZON BILLING SPECIALISTS
	IMAGISTICS INTERNATIONAL INC
	NEYER TISEO HINDO
	NTH CONSULTANTS LTD

44TH ST SE 2005 (Cont'd)

4665	AEROTEK INC
	ONSITE
	PENNSYLVANIA LIFE INSURANCE
	RIVER CITY REPRODUCTIONS
	TRADESMEN INTERNATIONAL
	UNITED FINANCIAL GROUP LLC
4695	AWANIM
	CU ANSWERS CONSULTING
	HONEYWELL
	MANUFACTURING ACTION GROUP INC
	MVN
	WESCO NET
	WEST MICHIGAN COMPUTER COOP INC
4710	CB REAL ESTATE LLC
	COMPATICO OFFICE FURNITURE PARTS
4740	DATUM INDUSTRIES INC
4782	PRODUCTION TOOL SUPPLY
4800	SUNNYSLOPE FLORAL
5345	RJ MCCRACKEN & SON
5351	KELLEY AIR SERVICES
5363	HHS
5410	ALTICOR INC
5500	COMAIR INC
	GERALD R FORD INTERNATIONAL AIRPORT
	HERTZ CORP
	HOST MARRIOTT L P
	KENT COUNTY AERONAUTICS BOARD
	MIDWEST EXPRESS AIRLINES
	NORTHERN AIR INC
	NORTHERN JET MANAGEMENT
	PARAMOUNT AVIATION
	TRAVEL CONSULTANTS
	WORLDWIDE FLIGHT SERVICES INC

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2005

3290	MANN, JILL Z
3312	GOULDING, TOM A
3334	RASBERRY BONDING CO
	RASBERRY, EDITH M
3390	QUINT, WAYNE R
3408	WITHAM, ROBERT B
3426	BOLTON, WILLIAM P
3444	STERKENBURG, LAWRENCE D
3464	GRAHAM, JERRY L
3501	PROCARE LANDSCAPE MANAGEMENT INC
	WEED MAN
3521	KILMER, BRENT M
3545	RODGERS, CURTIS
3601	MCNITT, JAMES M
3608	WHITEHEAD, JULIE
3611	MITIDIERI, FRANK V
	MONICA S BEST GOURMET COOKIES
3639	BRECKENRIDGE, DANIEL D
3706	KENT, KEVIN D
4190	THORNAPPLE EXCAVATING INC
4196	TNT DREDGING INC

Target Street	Cross Street	Source
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44TH ST SE 2000

4300	DIESEL TECHNOLOGY COMPANY
	HEALTHCARE 2000
	STEELCASE WOOD FURNITURE ABSENTEE CALL IN
4345	DECKER CONSTRUCTION INCORPORATED
	HUDSON LOCK
	JOHNSON FLOORING & INTERIORS
	PROSOURCE FLOOR COVERINGS
4425	SPECIALTY WOODWORKING MACHINERY INCORPORATED
4435	NICHOLS
4440	ELSTON RICHARDS
4445	BLUE WATER VISUAL SERVICES
	INNOVATIVE CLEANING
	WEST MICHIGAN GLASS BLOCK INCORPORATED
4455	VEHEX INCORPORATED
4457	DOALL INDUSTRIAL SUPPLY CORPORATION
4460	BRIDGE INFORMATION SYSTEMS
	COMMON POINT MORTGAGE
	ITM ACQUISITION
4475	SERVICE EXPRESS
4525	FITZPATRICK ELECTRIC SUPPLY COMPANY
4575	LASERS UNLIMITED INCORPORATED
	MIDWEST VISUAL EQUIPMENT COMPANY INCORPORATED
4604	ISERV COMPANY THE
4607	GRAYBAR ELECTRIC COMPANY INCORPORATED
4612	DIAMOND EXTERIORS
4614	HARPER INDUSTRIAL CONSTRUCTION INCORPORATED
4616	GRAND TECHNOLOGIES INCORPORATED
4618	SWANSON INMATE COMMISSARY SERVICES INCORPORATED
	VIDEO MAGIC INCORPORATED
4620	PROGRESSIVE BUILDING SERVICES INCORPORATED
4626	SUNRISE FOODS
4630	NATIONAL INTERLOCK SERVICE MI LIMITED
4632	ASSOCIATED GLOBAL SYSTEMS
4635	ADVACOM INCORPORATED
	DRAKE PRODUCTS CORPORATION
	N T H CONSULTANTS LIMITED
	SNAP ON TOOLS CORPORATION
4636	UNIQUE TRUCK EQUIPMENT UNISTRUT DETROIT SERVICE COMPANY
4654	GUILFORD COMPONENT TECHNOLOGY
4665	AEROTEK ONSITE
	AMERITECH ENHANCED BUSINESS SERVICES
	AMIGO MOBILITY
	ANALYTICAL MASSSPEC LABORATORY INCORPORATED
	CLARK & GREGORY INCORPORATED
	CONCENTRA MEDICAL CENTERS GRAND RAPIDS AIRPORT
	CORAM HEALTHCARE
	MICHIGAN BELL COMMUNICATIONS
	ON SITE
	PENNSYLVANIA LIFE INSURANCE COMPANY
	XEROX CORPORATION

Target Street	Cross Street	Source
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44TH ST SE 2000 (Cont'd)

4695 GOURMET TO GO
HONEYWELL
NEXTEL COMMUNICATIONS
WEST MICHIGAN CMPTR COOPERATIVE INCORPORATED WESCO CREDIT UN
4710 COMPATICO
4720 WOLVERINE BUILDING INCORPORATED
4740 DATUM INDUSTRIES INCORPORATED
4782 PRODUCTION TOOL SUPPLY

Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 2000

3290	ZOODSMA, BERNARD
3312	DEWEERD, NORMAN D
3334	CRUTCHER, CHARLES
	RASBERRY, EDITH
3390	QUINT, WAYNE R
3426	BOLTON, WILLIAM
3444	STERKENBURG, L D
3501	RVP INCORPORATED
3521	BECKERING, THOMAS
3545	RODGERS, ROBERT E
3601	MCNITT, JAMES M
3611	MITIDIERI, FRANK
3637	GRONER, MICHAEL
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPARE ROOM
	RYDER TRUCK RENTAL ONE WAY INCORPORATED
	SAND BAY INCORPORATED
4190	THORNAPPLE EXCAVATING INCORPORATED
4196	T N T DREDGING INCORPORATED

Target Street	Cross Street	Source
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44TH ST SE 1995

4620	LIFETIME PRODUCTS INC
4632	G STEIL FOR CNGRSS
4635	ALVEY INC
	CUSTOM SERVC ELECT
4649	HONEYWELL PROTECTION SVC
4654	GUILFORD COMPONENT TECHNOLOGY
4665	ANALYTICAL MASSSPEC LAB INC
	BRIGGS, CHARLES W
	CAREMARK HOMECARE
	CLARK & GREGORY INC
	DECISION DATA SVC
	MICHIGAN BELL COMMUNICATIONS
	PENNSYLVANIA LIFE INSURANCE CO
	SEARS SIDING
	XEROX CORP
4695	HONEYWELL HOME & BUILDING
	HONEYWELL INC
	SAGE SYSTEMS INC
4710	GUILFORD OF MAINE INC
	GUILFORD TEXTILE RESOURCES
4720	PAULETTE DONNELLY
	WOLVERINE BUILDING INC
	WOLVERINE CONSTRUCTION MGMT
4800	SUNNYSLOPE FLORAL & GIFT
5215	SEARS ROEBUCK & CO
5245	NATIONAL CAR RENTAL
5255	HERTZ RENT A CAR
5345	MCCRACKEN, R J
	R J MC CRACKEN & SON INC
	R J MCCRACKEN
5351	A N DERINGER INC
5363	HHS INC
5387	US TRANSPORTATION DEPT
5500	ABSOLUTE MAINTENANCE INC
	AMERICAN AIRLINES INC
	AMR COMBS AIRCRAFT
	AMR COMBS FLIGHT TRAINING
	AMR SERVICES
	AVCON LIMITED
	AVIS RENT A CAR
	BUDGET RENT A CAR
	CONTINENTAL EXPRESS
	DYNAIR CFE SVC INC
	EMERY WORLDWIDE ACF CO
	EMERY WRLDWD A CF
	HERTZ RENT A CAR
	HOST INTL GFT SHP
	HOST MARRIOTT
	KENT COUNTY AERONAUTICS DEPT
	KENT COUNTY INTRNTNL AIRPORT

Target Street	Cross Street	Source
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44TH ST SE 1995 (Cont'd)

5500 MARIS EQUIPMENT CO
MAYDAY AVIONICS INC
MID PACIFIC AIR CORP
NATIONAL CAR RENTAL
NBD BANK
NORTHWEST AIRLINES
NW AIRLINES CARGO
U S AIR INC
US AIR
US AIR TRAFFIC CONTROL
US AIRWAY FACILITIES OFC
US FAA TOWER
US FLIGHT STANDARDS OFC
US NATL WEATHER
WELCH AVIATION INC

Target Street	Cross Street	Source
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THORNAPPLE RIVER DR SE 1995

3290	MANN, JILL
	ZOODSMA, BERNARD
3312	DEWEERD, NORMAN D
3334	RASBERRY, EDITH
3390	QUINT, WAYNE R
3408	WITHAM, ROBERT B
3426	BOLDT, K
	BOLDTMOORE, K
	MOORE, DENNIS
3440	STERKENBURG, LARRY D
3444	STERKENBURG, LAWR D
3464	GRAHAM, J E
3545	RODGERS, ROBERT E
3601	MACGREGOR, JAMES D
3637	KREBILL, JOHN
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPARE ROOM
	RYDER TRUCK RENTAL INC
4190	THORNAPPLE EXCAVATING INC
4196	GREAT LAKES FRAMING INC

Target Street	Cross Street	Source
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44TH ST SE 1992

4616	S L WOODWORKING
	SLI PARTS&SERV
4636	UNISTRUT DETROIT
4665	ADVNCD INFOR SYS
	ANALYTICAL MASSSPE
	CAREMARK HM HLTH
	DECISION DATA COMP
	MICH BELL CMMNCTNS
	PENNSYLVN LIFE INS
	XEROX CORPORATION
4695	ARTECH INTERIORS
	HONEYWELL
4710	STEIL INC
4720	BUTLER MFG BLDR
	WOLVERINE BLDG
	WOLVERINE CRANE SV
4740	ARPRT SLF STRG CTR
5245	NATL CAR RNTL SYTM
5255	HERTZ RENT-A-CAR
5373	C B CLASSICS
5377	GRT NRTHN AIRCRAFT
5387	US GRAND RAPIDS SF
5500	ABSOLUTE MNTNC INC
	AIRBORNE EXPRESS
	AMR COMBS
	AMR COMBS AIR AMBL
	AMR COMBS AIRCRAFT
	AMR COMBS EXE CHRT
	AMR COMBS FLT TRNG
	AMR SERVICES CORP
	ARPRT HTL DYS INN
	ARPRT MOTEL
	ARPRT RESTAURANTS
	AUTODIE CORP
	AVCON LTD
	AVIS RENT A CAR
	BUDGET RENT A CAR
	CO AERONAUTICS DPT
	DAYS INN ARPT HTL
	DYNAIR C F E SVCS
	HERTZ RENT-A-CAR
	HOST INTL GFT SHP
	HOST TRMNL RSTRNT
	MAYDAY AVIONICS
	MCCRACKEN, R J
	MID PACIFIC AIR CO
	NATL CAR RENTAL
	NBD BANK NA
	NORTHWEST AIRLINES
	R J MCCRACKEN

Target Street	Cross Street	Source
✓	-	EDR Digital Archive

44TH ST SE 1992 (Cont'd)

5500 R J MCCRACKEN&SON
RAPID AIR
SPARTA AVIATION SV
TRAVEL CONSULTANTS
US AIR
US CUSTOMS SV
US FAA TOWER
US FLIGHT STANDARD
US PO AIRPORT ML
US TRANS AIR FACLT
US TRANS AIR TRFFC
WEST MI AVIATION

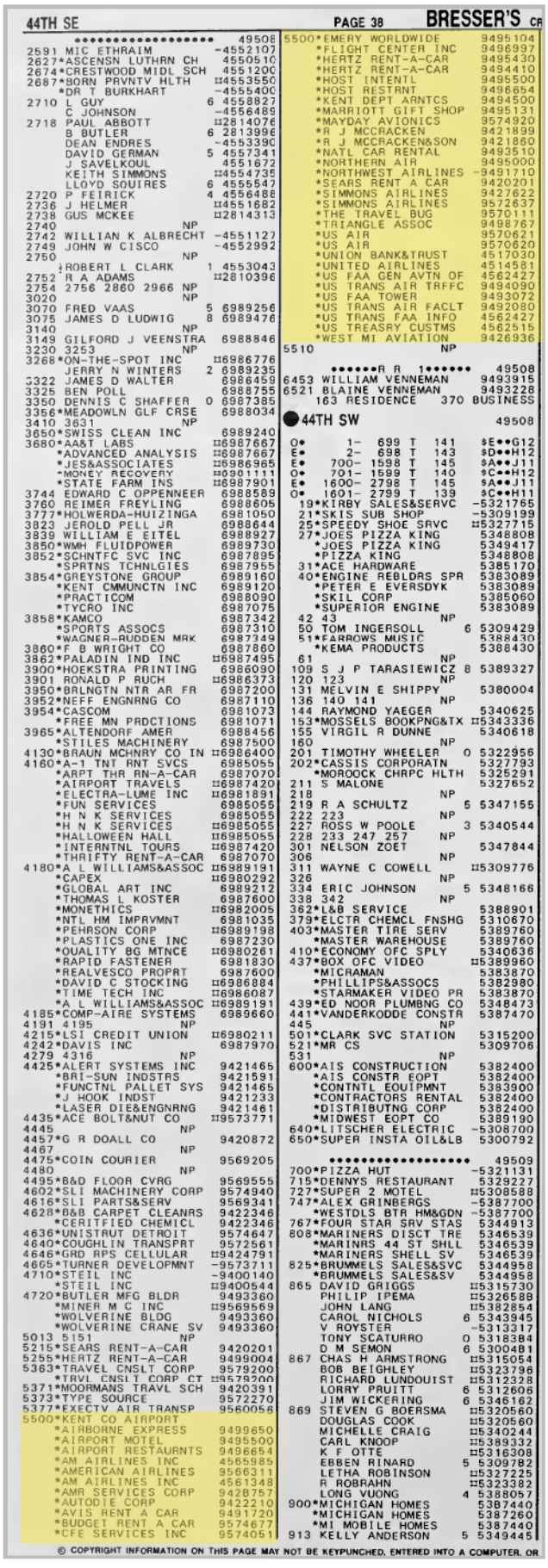
Target Street	Cross Street	Source
-	✓	EDR Digital Archive

THORNAPPLE RIVER DR SE 1992

3312	DEWEERD, NORMAN D
3334	LOCKWOOD, DAVE W
3381	SLAGBOOM, JOHN E
3390	VANLOO, C A
3408	WITHAM, ROBERT B
3444	TUSING, CHARLES
3545	RODGERS, ROBERT E
3637	KREBILL, ANNE
3639	GIBFRIED, JAMES
3706	MEYERING, JACK
3908	A CASCADE SPR RM
	CASCD SPARE RM A
3910	BURTON SERV GARAGE
4190	THORNAPPLE EXCAVTG
4849	KAECHELE, CHARLES
4909	FORBES, JOHN D
33901	QUINT, WAYNE R

Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1987



44TH SE PAGE 38 BRESSER'S CR

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2591 MIC ETHRAIM -4552107
2627*ASCENSN LUTHRN CH 4550510
2674*CRESTWOOD MIDL SCH 4551200
2687*BORN PRVNTV HLTH H4553550
*DR T BURKHART -4555400
2710 L GUY 6 4558827
C JOHNSON -4556485
2718 PAUL ABBOTT H2814076
B BUTLER 6 2813996
DEAN ENDRES -4553390
DAVID GERMAN 5 4557341
J SAVELKOUL 4551672
KEITH SIMMONS H4554735
LLOYD SQUIRES 6 4555547
2720 P FEITRICK 4 4556488
2736 J HELMER H4551682
2738 GUS MCKEE H2814313
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2742 WILLIAN K ALBRECHT -4551127
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ROBERT L CLARK 1 4553043
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3070 FRED VAAS 5 6989256
3075 JAMES D LUDWIG 8 6989476
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3149 GILFORD J VEENSTRA 6988846
3230 3253 NP
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JERRY N WINTERS 2 6989235
3322 JAMES D WALTER 6986459
3325 BEN POLL 6988755
3350 DENNIS C SHAFFER 0 6987385
3356*MEADOWLN GLF CRSE 6988034
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3680*AA&T LABS H6987667
*ADVANCED ANALYSIS H6987667
*JES&ASSOCIATES H6986965
*MONEY RECOVERY H6901111
*STATE FARM INS H6987901
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3760 REIMER FREYLING 6988605
3777*HOLWERDA-HUIZINGA 6981050
3823 JEROLD PELL JR 6988644
3839 WILLIAM E EITEL 6988927
3850*WMH FLUIDPOWER 6989730
3852*SCHNTFC SVC INC 6987895
*SPRTNS TCHNLGIES 6987955
3854*GREYSTONE GROUP 6989160
*KENT CMMUNCTN INC 6989120
*PRACTICOM 6988090
*TYCRO INC 6987075
3858*KAMCO 6987342
*SPORTS ASSOCS 6987310
*WAGNER-RUDDEN MRK 6987349
3860*F B WRIGHT CO 6987860
3862*PALADIN IND INC H6987495
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3950*BRLNGTN NTR AR FR 6987200
3952*NEFF ENGNRNG CO 6987110
3954*CASCOM 6981073
*FREE MN PRDCTIONS 6981071
3965*ALTENDORF AMER 6988456
*STILES MACHINERY 6987500
4130*BRAUN MCHNRY CO IN H6986400
4160*A-1 TNT RNT SVCS 6985055
*ARPT THR RN-A-CAR 6987070
*AIRPORT TRAVELS H6987420
*ELECTRA-LUME INC H6981891
*FUN SERVICES 6985055
*H N K SERVICES 6985055
*H N K SERVICES H6985055
*HALLOWEEN HALL H6985055
*INTERNTNL TOURS H6987420
*THRIFTY RENT-A-CAR 6987070
4180*A L WILLIAMS&ASSOC H6989191
*CAPEX H6980292
*GLOBAL ART INC 6989212
*THOMAS L KOSTER 6987600
*MONETHICS H6982005
*NTL HM IMPRVMNT 6981035
*PEHRSON CORP H6989198
*PLASTICS ONE INC 6987230
*QUALITY BG MTNCE H6980261
*RAPID FASTENER 6981830
*REALVESCO PROPRT 6987600
*DAVID C STOCKING H6986884
*TIME TECH INC H6986087
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4191 4195 NP
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*FUNCTNL PALLET SYS 9421465
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*LASER DIE&ENGNRNG 9421461
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4467 NP
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4480 NP
4495*B&D FLOOR CVRG 9569555
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4628*B&B CARPET CLEANRS 9422346
*CERITFIED CHEMICL 9422346
4636*UNISTRUT DETROIT 9574647
4640*COUGHLIN TRANSPRT 9572561
4646*GRD RPS CELLULAR H9424791
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*AIRPORT MOTEL 9495500
*AIRPORT RESTAURNTS 9496654
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*CFE SERVICES INC 9574051
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*MARRIOTT GIFT SHOP 9495131
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*NORTHERN AIR 9495000
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*THE TRAVEL BUG 9570111
*TRIANGLE ASSOC 9498767
*US AIR 9570621
*US AIR 9570620
*UNION BANK&TRUST 4517030
*UNITED AIRLINES 4514581
*US FAA GEN AVTN OF 4562427
*US TRANS AIR TRFFC 9494090
*US FAA TOWER 9493072
*US TRANS AIR FACLT 9492080
*US TRANS FAA INFO 4562427
*US TREASRY CUSTMS 4562515
*WEST MI AVIATION 9426936
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6453 WILLIAM VENNEMAN 9493915
6521 BLAINE VENNEMAN 9493228
163 RESIDENCE 370 BUSINESS
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E• 2- 698 T 143 $D••H12
E• 700- 1598 T 145 $A••J11
O• 701- 1599 T 140 $C••H12
E• 1600- 2798 T 145 $A••J11
O• 1601- 2799 T 139 $C••H11
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21*SKIS SUB SHOP -5309199
25*SPEEDY SHOE SRVC H5327715
27*JOES PIZZA KING 5348808
*JOES PIZZA KING 5349417
*PIZZA KING 5348808
31*ACE HARDWARE 5385170
40*ENGINE REBLDRS SPR 5383089
*PETER E EVERSDYK 5383089
*SKIL CORP 5385060
*SUPERIOR ENGINE 5383089
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50 TOM INGERSOLL 6 5309429
51*FARROWS MUSIC 5388430
*KEMA PRODUCTS 5388430
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120 123 NP
131 MELVIN E SHIPPY 5380004
136 140 141 NP
144 RAYMOND YAEGER 5340625
153*MOSSELS BOOKPNG&TX H5343336
155 VIRGIL R DUNNE 5340618
160 NP
201 TIMOTHY WHEELER 0 5322956
202*CASSIS CORPORATN 5327793
*MOROOCK CHRPC HLTH 5325291
211 S MALONE 5327652
218 NP
219 R A SCHULTZ 5 5347155
222 223 NP
227 ROSS W POOLE 3 5340544
228 233 247 257 NP
301 NELSON ZOET 5347844
306 NP
311 WAYNE C COWELL H5309776
326 NP
334 ERIC JOHNSON 5 5348166
338 342 NP
362*L&B SERVICE 5388901
379*ELCTR CHEMCL FNSHG 5310670
403*MASTER TIRE SERV 5389760
*MASTER WAREHOUSE 5389760
410*ECONOMY OFC SPLY 5340636
437*BOX OFC VIDEO H5389960
*MICRAMAN 5383870
*PHILLIPS&ASSOCS 5382980
*STARMAKER VIDEO PR 5383870
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441*VANDERKODDE CONSTR 5387470
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501*CLARK SVC STATION 5315200
521*MR CS 5309706
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*AIS CONSTR EQPT 5382400
*CONTNTL EQUIPMNT 5382900
*CONTRACTORS RENTAL 5382400
*DISTRIBUTNG CORP 5382400
*MIDWEST EQPT CO 5389190
640*LITSCHER ELECTRIC -5308700
650*SUPER INSTA OIL&LB 5300792
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700*PIZZA HUT -5321131
715*DENNYS RESTAURANT 5329227
727*SUPER 2 MOTEL H5308588
747*ALEX GRINBERGS -5387700
*WESTDLS BTR HM&GDN -5387700
767*FOUR STAR SRV STAS 5344913
808*MARINERS DISCT TRE 5346539
*MARINRS 44 ST SHLL 5346539
*MARINERS SHELL SV 5346539
825*BRUMMELS SALES&SVC 5344958
*BRUMMELS SALES&SV 5344958
865 DAVID GRIGGS H5315730
PHILIP IPEMA H5326588
JOHN LANG H5382854
CAROL NICHOLS 6 5343945
V ROYSTER -5313317
TONY SCATURRO 0 53183B4
D M SEMON 6 53004B1
867 CHAS H ARMSTRONG H5315054
BOB BEIGHLEY H5323796
RICHARD LUNDQUIST H5312328
LORRY PRUITT 6 5312606
JIM WICKERING 6 5345162
869 STEVEN G BOERSMA H5320560
DOUGLAS COOK H5320560
MICHELLE CRAIG H5340244
CARL KNOOP H5389332
K F OTTE H5316308
EBBEN RINARD 5 5309782
LETHA ROBINSON H5327225
R ROBRAHN H5323382
LONG VUONG 4 5388057
900*MICHIGAN HOMES 5387440
*MICHIGAN HOMES 5387260
*MI MOBILE HOMES 5387440
913 KELLY ANDERSON 5 5349445

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-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1987

		[illegible]		
1	2899*	JULIES FLWR		9492238
2	2902	RACHEL DICESARE	2	9496916
0	2904	ROD WEB8		9424055
5	2914	PAUL A CROWDER	6	9572107
2	2915	B E FRENCH	6	9496989
8	2926	NP		
3	2929	KEN CAREY	9	9492563
0	2930	WILLARD CRUMBACK		9493981
7	2950	NP		
6	2962	JAMES LOEKS	0	9428677
1	2965	PAUL SLATER		9491546
7	2975	WALTER K SCHMIDT		9491386
6	2984	VICTOR LUMLEY		9491385
0	2985	NP		
2	2986	DR JON M GANS		9421585
	3003	DONALD J FINCH	0	9493787
9	3010	J 8 HALPIN		9492718
6	3021	ARTHUR BUERKER	8	9421692
7	3024	F A SKIPPER		9491821
1	3032	GEORGE TEACHMAN	8	9497316
4	3044	NP		
	3056	KEN GRASHUIS	4	9493545
5	3082	JIM JAMES	0	949B484
1	3092	DONALD L CLARK		¤9491409
	314B	RO8ERT JANDERNOA		9491595
0	3150	FRED THOMAS	2	9422452
5		FRED THOMAS JR	3	9425881
2	3160	BERNARD L SMITH	1	9425152
	3161	ROBERT SPINETTO	2	9425344
5	3176	TOM J MOX	5	9573624
1	31B0	RONALD SMITH	6	9428373
	3190	JAMES FUGITT	2	9495629
6	3191	THOMAS P MITCHELL		9496206
9	3199	NP		
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9		●●●●●●R R 1●●●●●●		49508
3	3260*	THORNAPL COM CHRCH		9420821
5	3275	KIM R JOHNSON	1	9572566
2	3290	NP		
7	3312	NORMAN D DEWEERD		9492742
4	3334	DAVE W LOCKWOOD	2	9428749
0	33B1	NP		
7	3390	WAYNE R QUINT	9	9422144

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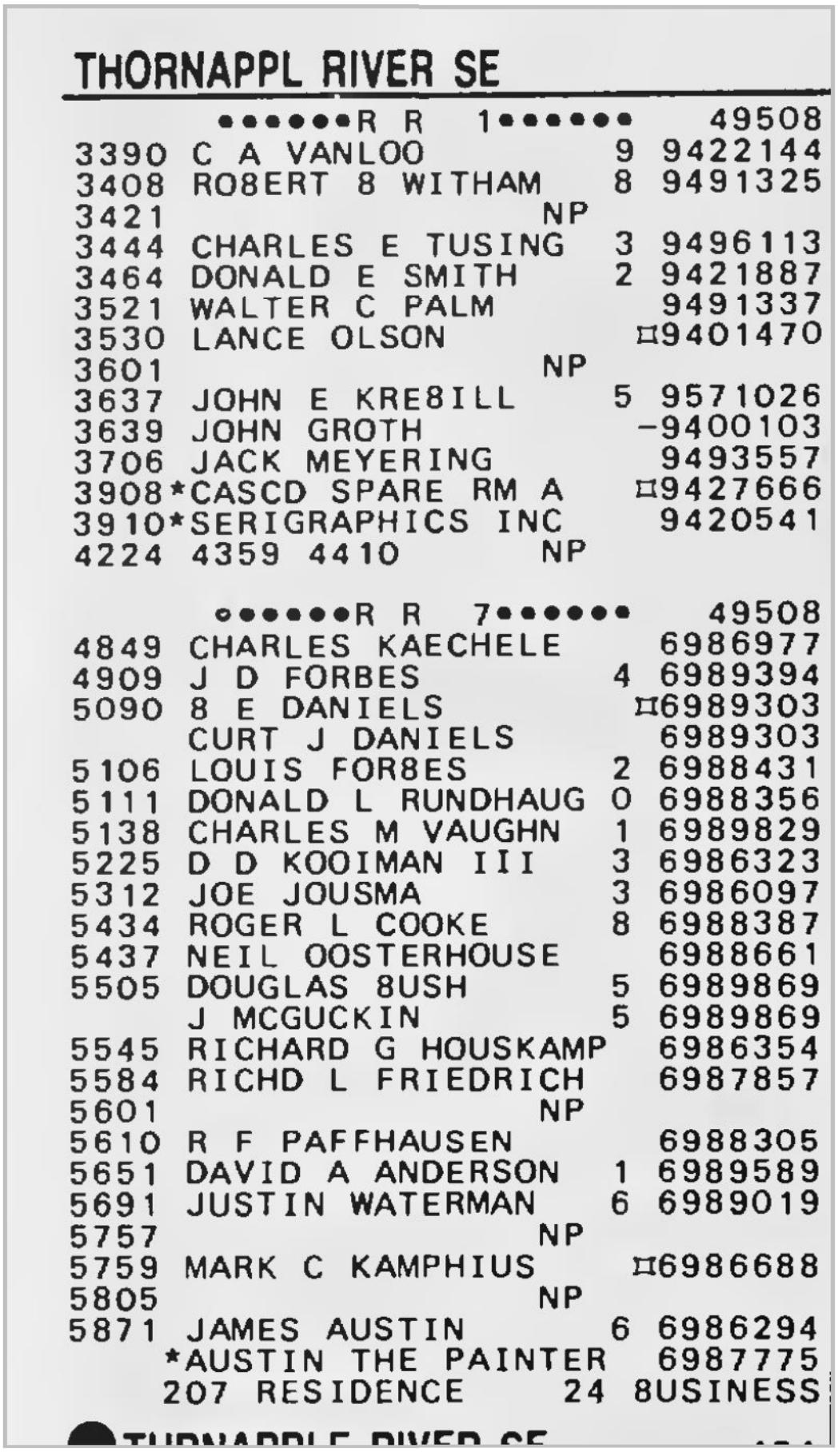
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1987



THORNAPPL RIVER SE

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3390	C A VANLOO	9	9422144
3408	ROBERT B WITHAM	8	9491325
3421		NP	
3444	CHARLES E TUSING	3	9496113
3464	DONALD E SMITH	2	9421887
3521	WALTER C PALM		9491337
3530	LANCE OLSON		¤9401470
3601		NP	
3637	JOHN E KREBILL	5	9571026
3639	JOHN GROTH		-9400103
3706	JACK MEYERING		9493557
3908	*CASCD SPARE RM A		¤9427666
3910	*SERIGRAPHICS INC		9420541
4224	4359 4410	NP	
	••••••R R 7••••••		49508
4849	CHARLES KAECHELE		6986977
4909	J D FORBES	4	6989394
5090	B E DANIELS		¤6989303
	CURT J DANIELS		6989303
5106	LOUIS FORBES	2	6988431
5111	DONALD L RUNDHAUG	0	6988356
5138	CHARLES M VAUGHN	1	6989829
5225	D D KOOIMAN III	3	6986323
5312	JOE JOUSMA	3	6986097
5434	ROGER L COOKE	8	6988387
5437	NEIL OOSTERHOUSE		6988661
5505	DOUGLAS BUSH	5	6989869
	J MCGUCKIN	5	6989869
5545	RICHARD G HOUSKAMP		6986354
5584	RICHD L FRIEDRICH		6987857
5601		NP	
5610	R F PAFFHAUSEN		6988305
5651	DAVID A ANDERSON	1	6989589
5691	JUSTIN WATERMAN	6	6989019
5757		NP	
5759	MARK C KAMPHIUS		¤6986688
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5871	JAMES AUSTIN	6	6986294
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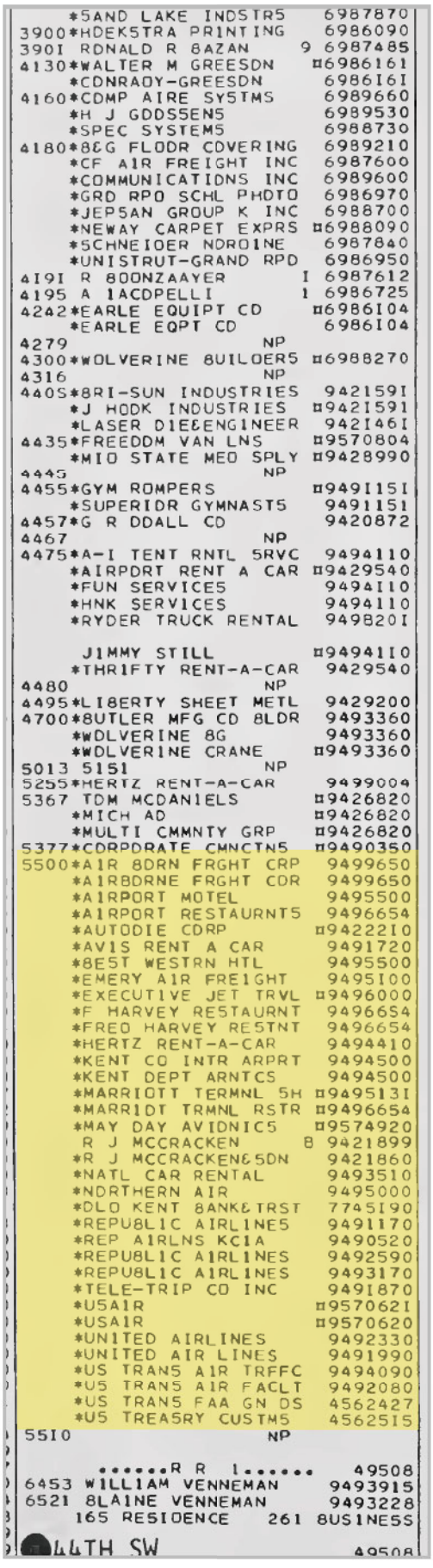
44TH ST SE 1982



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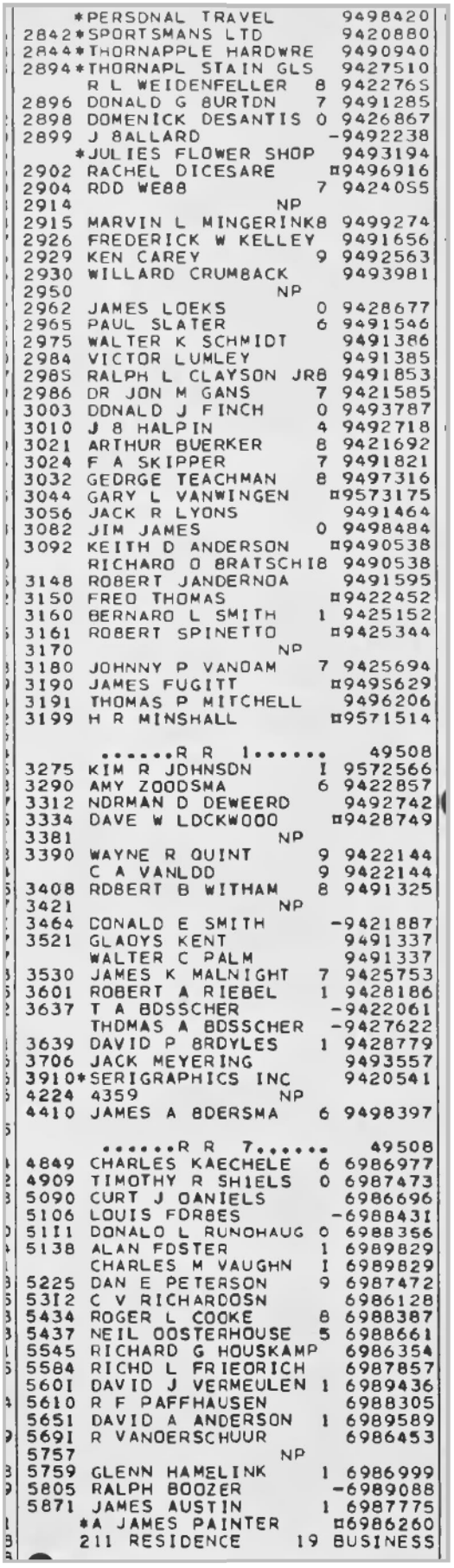
THORNAPPLE RIVER DR SE 1982



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     *PERSONAL TRAVEL          9498420
2842*SPORTSMANS LTD            9420880
2844*THORNAPPLE HARDWRE        9490940
2894*THORNAPL STAIN GLS        9427510
     R L WEIDENFELLER      8   9422765
2896 DONALD G BURTON       7   9491285
2898 DOMENICK DESANTIS     0   9426867
2899 J BALLARD                -9492238
     *JULIES FLOWER SHOP       9493194
2902 RACHEL DICESARE          ¤9496916
2904 ROD WEBB              7   9424055
2914                    NP
2915 MARVIN L MINGERINK    8   9499274
2926 FREDERICK W KELLEY        9491656
2929 KEN CAREY             9   9492563
2930 WILLARD CRUMBACK          9493981
2950                    NP
2962 JAMES LOEKS           0   9428677
2965 PAUL SLATER           6   9491546
2975 WALTER K SCHMIDT          9491386
2984 VICTOR LUMLEY             9491385
2985 RALPH L CLAYSON JR    8   9491853
2986 DR JON M GANS         7   9421585
3003 DONALD J FINCH        0   9493787
3010 J B HALPIN            4   9492718
3021 ARTHUR BUERKER        8   9421692
3024 F A SKIPPER           7   9491821
3032 GEORGE TEACHMAN       8   9497316
3044 GARY L VANWINGEN         ¤9573175
3056 JACK R LYONS              9491464
3082 JIM JAMES             0   9498484
3092 KEITH D ANDERSON         ¤9490538
     RICHARD O BRATSCH     8   9490538
3148 ROBERT JANDERNOA          9491595
3150 FRED THOMAS              ¤9422452
3160 BERNARD L SMITH       1   9425152
3161 ROBERT SPINETTO          ¤9425344
3170                    NP
3180 JOHNNY P VANDAM       7   9425694
3190 JAMES FUGITT             ¤9495629
3191 THOMAS P MITCHELL         9496206
3199 H R MINSHALL             ¤9571514

     ......R R  1......           49508
3275 KIM R JOHNSON         I   9572566
3290 AMY ZOODSMA           6   9422857
3312 NORMAN D DEWEERD          9492742
3334 DAVE W LOCKWOOD          ¤9428749
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3390 WAYNE R QUINT         9   9422144
     C A VANLOO            9   9422144
3408 ROBERT B WITHAM       8   9491325
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3521 GLADYS KENT               9491337
     WALTER C PALM             9491337
3530 JAMES K MALNIGHT      7   9425753
3601 ROBERT A RIEBEL       1   9428186
3637 T A BOSSCHER             -9422061
     THOMAS A BOSSCHER        -9427622
3639 DAVID P BROYLES       1   9428779
3706 JACK MEYERING             9493557
3910*SERIGRAPHICS INC          9420541
4224 4359                  NP
4410 JAMES A BOERSMA       6   9498397

     ......R R  7......           49508
4849 CHARLES KAECHELE      6   6986977
4909 TIMOTHY R SHIELS      0   6987473
5090 CURT J DANIELS            6986696
5106 LOUIS FORBES             -6988431
5111 DONALD L RUNOHAUG     0   6988356
5138 ALAN FOSTER           1   6989829
     CHARLES M VAUGHN      1   6989829
5225 DAN E PETERSON        9   6987472
5312 C V RICHARDSON            6986128
5434 ROGER L COOKE         8   6988387
5437 NEIL OOSTERHOUSE      5   6988661
5545 RICHARD G HOUSKAMP        6986354
5584 RICHD L FRIEORICH         6987857
5601 DAVID J VERMEULEN     1   6989436
5610 R F PAFFHAUSEN            6988305
5651 DAVID A ANDERSON      1   6989589
5691 R VANDERSCHUUR            6986453
5757                    NP
5759 GLENN HAMELINK        1   6986999
5805 RALPH BOOZER             -6989088
5871 JAMES AUSTIN          1   6987775
     *A JAMES PAINTER         ¤6986260
     211 RESIDENCE        19 BUSINESS
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Target Street	Cross Street	Source
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44TH ST SE 1977

0	3268	NP		
4	3322	JAMES O WALTER	9	6986459
4	3325	BEN PDLL		6988755
0	3350	CORKY GRAVENGCCO	4	6988154
0		RANDALL J HOEFLER	4	6988154
0		CRAIG SMITH	4	6988154
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	3410	ROBERT A GLOAS	5	6986854
0	3631	ALLEN L FEENSTRA	6	6989029
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5	3744	EDWARO C OPPENNEER	1	6988589
	3760	REIMER FREYLING		6988605
0	3777	*CERTIFIED TESTING		¤6989480
		*PROOS-HELMLS INC		¤6988100
8	3823	JEROLD PELL JR		6988644
3	3839	WILLIAM E EITEL		6988927
8	3900	*HOEKSTRA PRINTING		6986090
2	3901	NP		
7	3950	*ROBERT E BRADY		6988610
4	4130	*CONRAOY-GREESON		6986161
0	4160	*BAMAL CORP		6986550
0		*INTERNATNAL PROTCL		¤6987010
0		*SPECLZO SCRTY SYST		6986414
0		*SUPERIOR GYMNASTIC		6988990
0	4180	*B&G FLOOR COVERING		¤6989210
0		*UNISTRUT-GRANO RPO		6986950
0		*VICTOR CCMPTMTR CP		6986910
0	4191	R LAURILA	4	6986604
0	4195	K SCHUBACK	5	6988621
0	4242	*EARLE EQPT CO		6986104
0	4279	ROBERT VANOENELST	5	6988633
0	4316	NP		
0	4425	*RAY OON BINOERY SV		9490060
0		*WOLF OETROIT ENVLP		9422221
0	4435	*MONROE INC		9429820
0	4445	NP		
0	4457	*G R OOALL CO		9420872
0	4467	NP		
0	4475	*COLWELL EQUIP CC		9422825
0	4480	NP		
0	4495	*LIBERTY SHEET METL		9429200
4	5013	NP		
0	5100	*HART PRODUCE INC		6699533
0	5151	NP		
0	5255	*HERTZ RENT-A-CAR		9499004
0	5500	*AIR TRANSFER INC		9499150
0		*AIRBORNE FRGHT COR		9499650
0		*AIRPORT MARINA HTL		9495500
0		*AIRPORT RESTAURNTS		9496654

SE MAY NOT BE KEY PUNCHED, ENTERED INTO A COMPUTER, OR

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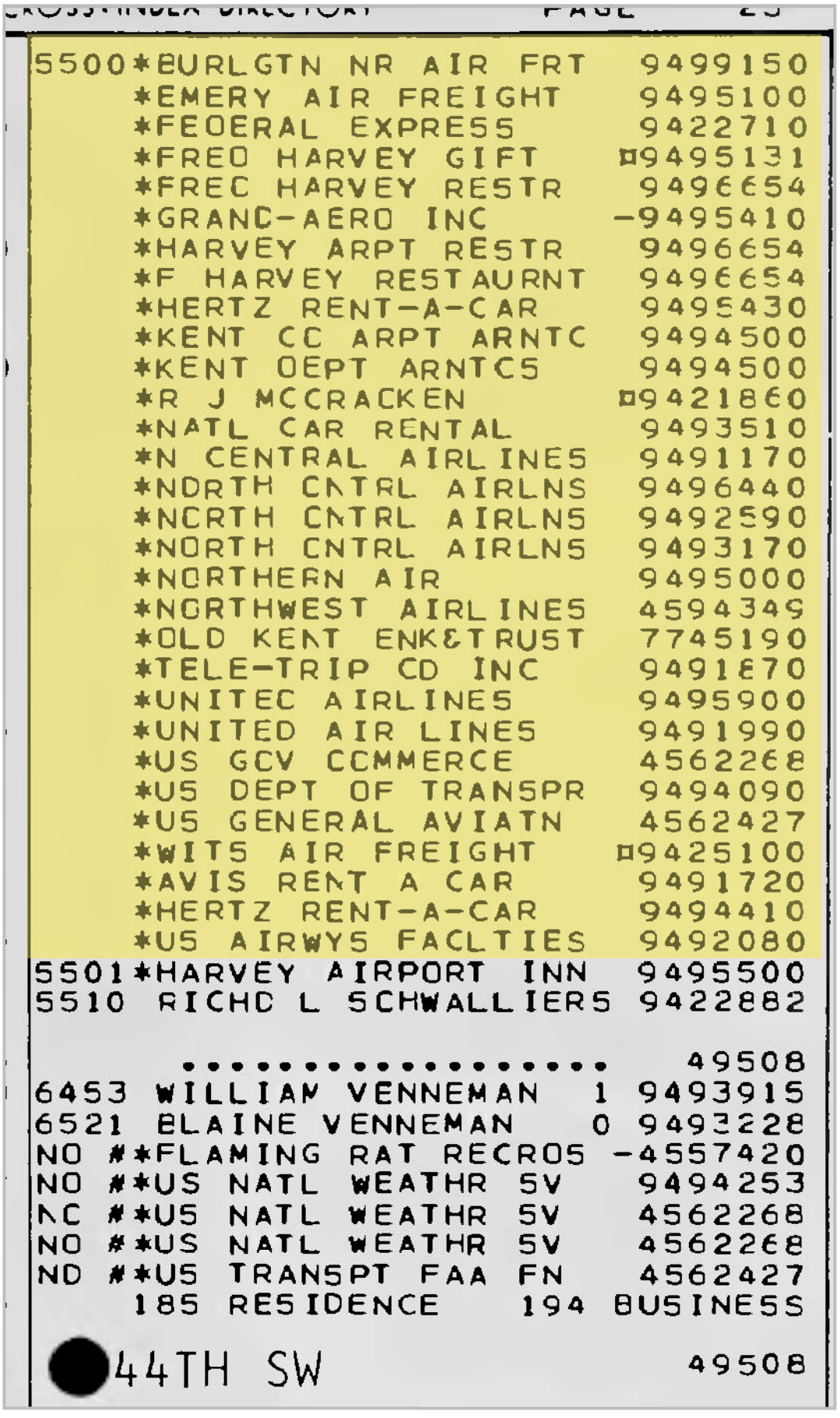
44TH ST SE 1977



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CROSS-INDEX DIRECTORY                    PAGE      25

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     *EMERY AIR FREIGHT          9495100
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     *FRED HARVEY GIFT          □9495131
     *FREC HARVEY RESTR          9496654
     *GRAND-AERO INC            -9495410
     *HARVEY ARPT RESTR          9496654
     *F HARVEY RESTAURNT         9496654
     *HERTZ RENT-A-CAR           9495430
     *KENT CC ARPT ARNTC         9494500
     *KENT DEPT ARNTCS           9494500
     *R J MCCRACKEN             □9421860
     *NATL CAR RENTAL            9493510
     *N CENTRAL AIRLINES         9491170
     *NORTH CNTRL AIRLNS         9496440
     *NORTH CNTRL AIRLNS         9492590
     *NORTH CNTRL AIRLNS         9493170
     *NORTHERN AIR               9495000
     *NORTHWEST AIRLINES         4594349
     *OLD KENT ENK&TRUST         7745190
     *TELE-TRIP CO INC           9491870
     *UNITED AIRLINES            9495900
     *UNITED AIR LINES           9491990
     *US GOV COMMERCE            4562268
     *US DEPT OF TRANSPR         9494090
     *US GENERAL AVIATN          4562427
     *WITS AIR FREIGHT          □9425100
     *AVIS RENT A CAR            9491720
     *HERTZ RENT-A-CAR           9494410
     *US AIRWYS FACLTIES         9492080
5501*HARVEY AIRPORT INN          9495500
5510 RICHD L SCHWALLIERS         9422882

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6453 WILLIAM VENNEMAN      1     9493915
6521 BLAINE VENNEMAN       0     9493228
NO **FLAMING RAT RECROS          -4557420
NO **US NATL WEATHR SV           9494253
NC **US NATL WEATHR SV           4562268
NO **US NATL WEATHR SV           4562268
ND **US TRANSPT FAA FN           4562427
     185 RESIDENCE      194 BUSINESS

44TH SW                                  49508
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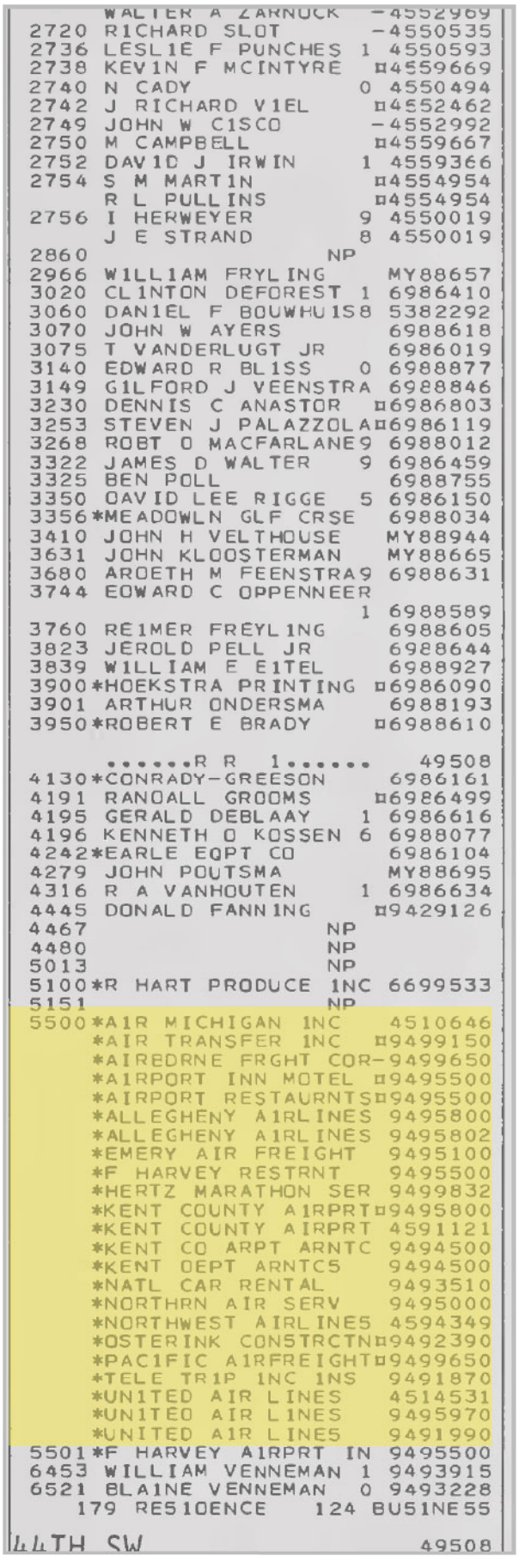
Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1977

3056	JACK R LYONS		9491464
3082	J E COPE		9491467
3148	ROBERT JANOERNDA		9491595
3150	DONALD A SLANINA	6	9429087
3161	ROBERT W PERKINS		◘9425802
3180	JOHNNY P VANDAM		-9425694
3191	THOMAS P MITCHELL	8	9496206
3199	LEE PATTERSON	0	9492342
	••••••R R 1••••••		49508
3275	P CLIFFORD		◘9425711
3290	AMY ZOODSMA	6	9422857
3312	NORMAN C DEWEERD		9492742
3334	M E VOLK		◘9422617
3381		NP	
3421		NP	
3521	GLADYS KENT		9491337
	WALTER C PALM		9491337
3530	JAMES K MALNIGHT		-9425753
3637	LARRY R RADLE		◘9421519
3706	JACK MEYERING		9493557
3900	*EEALL MANUFACTURNG		9499070
3910	*SERIGRAPHICS CO		9420541
4224	LEO M VENNEMAN		9493811
4359		NP	
4410	JAMES A BOERSMA	6	9498397
4849	CHARLES KAECHELE	6	6986977
4909	KENNETh h HILL		◘6987969
5090	CURT J DANIELS	2	6986696
5106	STEVEN E FORBES		-6986661
5111	DONALD L RUNDHAUG		MY88356
5138	EDWARD N DEVREE		6988227
5225	THEODORE C RIZOR	8	6986348
5312	C V E RICHARDSON		6986128
5434	CLARENCE COOKE		6988387
5437	NEIL DOSTERHOUSE	5	6988661
5545	RICHARD G HOUSKAMP	9	6986354
5584	RICHD E FRIEDRICH		6988607
5610	R F PAFFhAUSEN		6988305
5651	ROBERT F SMITH	1	6988919
5691	R J VANDERSCHUUR	9	6986453
5757	THOMAS E ANASTOR		◘6989672
5805	TED L KONING	0	6988922
5871	*CASCADE CEMENT		6986820
	*J B DENHARTIGH		6986820
	*J B DENHARTIGH		6986820
6691		NP	
6807		NP	
	175 RESIDENCE	17	BUSINESS

Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1972



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 2720 RICHARD SLOT       -4550535
 2736 LESLIE F PUNCHES 1 4550593
 2738 KEVIN F MCINTYRE  ¤4559669
 2740 N CADY            0 4550494
 2742 J RICHARD VIEL     ¤4552462
 2749 JOHN W CISCO       -4552992
 2750 M CAMPBELL         ¤4559667
 2752 DAVID J IRWIN     1 4559366
 2754 S M MARTIN         ¤4554954
      R L PULLINS        ¤4554954
 2756 I HERWEYER        9 4550019
      J E STRAND        8 4550019
 2860                NP
 2966 WILLIAM FRYLING     MY88657
 3020 CLINTON DEFOREST 1 6986410
 3060 DANIEL F BOUWHUIS8 5382292
 3070 JOHN W AYERS        6988618
 3075 T VANDERLUGT JR     6986019
 3140 EDWARD R BLISS    0 6988877
 3149 GILFORD J VEENSTRA 6988846
 3230 DENNIS C ANASTOR  ¤6986803
 3253 STEVEN J PALAZZOLA¤6986119
 3268 ROBT O MACFARLANE9 6988012
 3322 JAMES D WALTER    9 6986459
 3325 BEN POLL            6988755
 3350 DAVID LEE RIGGE   5 6986150
 3356*MEADOWLN GLF CRSE   6988034
 3410 JOHN H VELTHOUSE    MY88944
 3631 JOHN KLOOSTERMAN    MY88665
 3680 AROETH M FEENSTRA9 6988631
 3744 EDWARD C OPPENNEER
                        1 6988589
 3760 REIMER FREYLING     6988605
 3823 JEROLD PELL JR      6988644
 3839 WILLIAM E EITEL     6988927
 3900*HOEKSTRA PRINTING ¤6986090
 3901 ARTHUR ONDERSMA     6988193
 3950*ROBERT E BRADY     ¤6988610

      ......R R  1......    49508
 4130*CONRADY-GREESON      6986161
 4191 RANDALL GROOMS     ¤6986499
 4195 GERALD DEBLAAY    1 6986616
 4196 KENNETH O KOSSEN 6 6988077
 4242*EARLE EQPT CO        6986104
 4279 JOHN POUTSMA         MY88695
 4316 R A VANHOUTEN     1 6986634
 4445 DONALD FANNING     ¤9429126
 4467                NP
 4480                NP
 5013                NP
 5100*R HART PRODUCE 1NC 6699533
 5151                NP
 5500*AIR MICHIGAN INC     4510646
      *AIR TRANSFER INC   ¤9499150
      *AIREDRNE FRGHT COR-9499650
      *AIRPORT INN MOTEL ¤9495500
      *AIRPORT RESTAURNTS¤9495500
      *ALLEGHENY AIRLINES 9495800
      *ALLEGHENY AIRLINES 9495802
      *EMERY AIR FREIGHT  9495100
      *F HARVEY RESTRNT   9495500
      *HERTZ MARATHON SER 9499832
      *KENT COUNTY AIRPRT¤9495800
      *KENT COUNTY AIRPRT 4591121
      *KENT CO ARPT ARNTC 9494500
      *KENT DEPT ARNTCS   9494500
      *NATL CAR RENTAL    9493510
      *NORTHRN AIR SERV   9495000
      *NORTHWEST AIRLINES 4594349
      *OSTERINK CONSTRCTN¤9492390
      *PACIFIC AIRFREIGHT¤9499650
      *TELE TRIP INC INS  9491870
      *UNITED AIR LINES   4514531
      *UNITED AIR LINES   9495970
      *UNITED AIR LINES   9491990
 5501*F HARVEY AIRPRT IN 9495500
 6453 WILLIAM VENNEMAN 1 9493915
 6521 BLAINE VENNEMAN  0 9493228
    179 RESIDENCE   124 BUSINESS

44TH SW                   49508
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Target Street	Cross Street	Source
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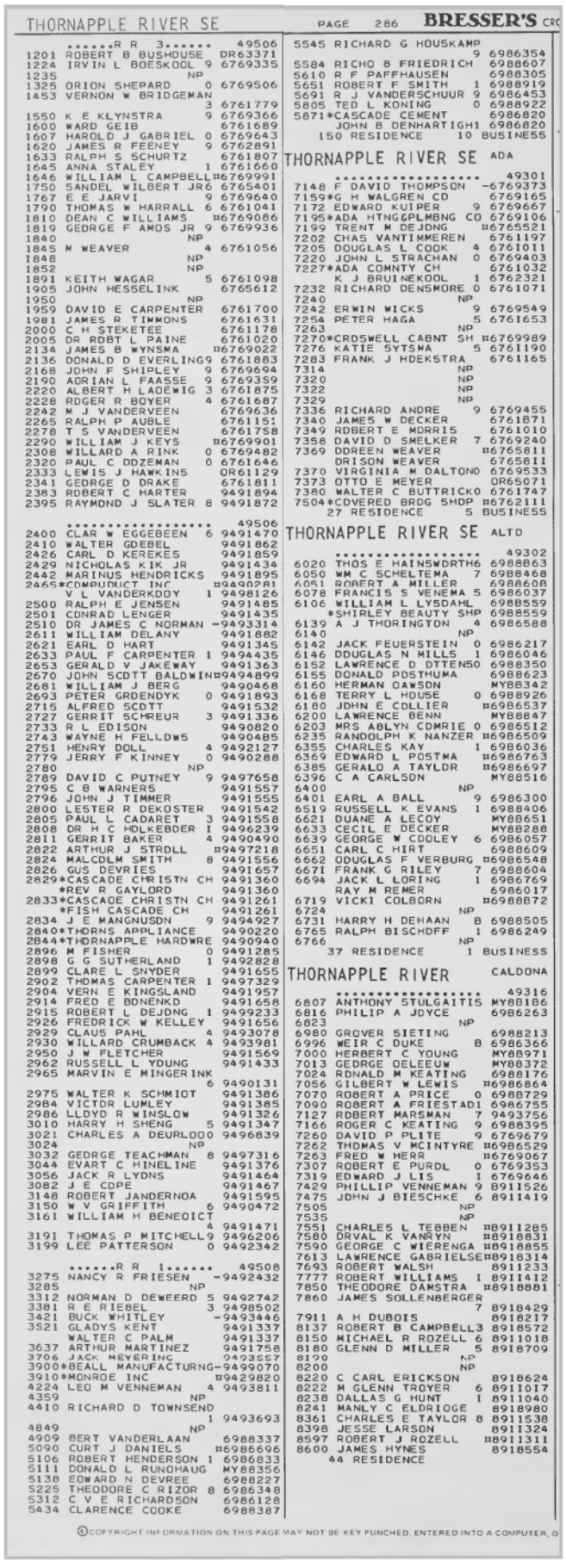
THORNAPPLE RIVER DR SE 1972



THORNAPPLE RIVER SE — PAGE 286 — BRESSER'S CRO

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      ******R R  3******    49506
1201 ROBERT B BUSHOUSE     DR63371
1224 IRVIN L BOESKOOL  9 6769335
1235                NP
1325 ORION SHEPARD     0 6769506
1453 VERNON W BRIDGEMAN
                       3 6761779
1550 K E KLYNSTRA      9 6769366
1600 WARD GEIB           6761689
1607 HAROLD J GABRIEL  0 6769643
1620 JAMES R FEENEY    9 6762891
1633 RALPH S SCHURTZ     6761807
1645 ANNA STALEY       1 6761660
1646 WILLIAM L CAMPBELL  #6769991
1750 SANDEL WILBERT JR6 6765401
1767 E E JARVI         9 6769640
1790 THOMAS W HARRALL  6 6761041
1810 DEAN C WILLIAMS     #6769086
1819 GEORGE F AMOS JR  9 6769936
1840                NP
1845 M WEAVER          4 6761056
1848                NP
1852                NP
1891 KEITH WAGAR       5 6761098
1905 JOHN HESSELINK      6765612
1950                NP
1959 DAVID E CARPENTER   6761700
1981 JAMES R TIMMONS     6761631
2000 C H STEKETEE        6761178
2005 DR ROBT L PAINE     6761020
2134 JAMES B WYNSMA      #6769022
2136 DONALD D EVERLING9  6761883
2168 JOHN F SHIPLEY    9 6769694
2190 ADRIAN L FAASSE   9 6769359
2220 ALBERT H LADEWIG  3 6761875
2228 ROGER R BOYER     4 6761687
2242 M J VANDERVEEN      6769636
2265 RALPH P AUBLE       6761151
2278 T S VANDERVEEN      6761758
2290 WILLIAM J KEYS      #6769901
2308 WILLARD A RINK    0 6769482
2320 PAUL C DDZEMAN    0 6761646
2333 LEWIS J HAWKINS     OR61129
2341 GEORGE D DRAKE      6761811
2383 ROBERT C HARTER     9491894
2395 RAYMOND J SLATER  8 9491872

      ******    49506
2400 CLAR W EGGEBEEN   6 9491470
2410 WALTER GOEBEL       9491862
2426 CARL D KEREKES      9491859
2429 NICHOLAS KIK JR     9491434
2442 MARINUS HENDRICKS   9491895
2465*COMPUNICT INC       #9490281
     V L VANDERKOOY    1 9498126
2500 RALPH E JENSEN      9491485
2501 CONRAD LENGER       9491435
2510 DR JAMES C NORMAN -9493314
2611 WILLIAM DELANY      9491882
2621 EARL D HART         9491345
2633 PAUL F CARPENTER  1 9494435
2653 GERALD V JAKEWAY    9491363
2670 JOHN SCOTT BALDWIN  #9494899
2681 WILLIAM J BERG      9490468
2693 PETER GROENDYK    0 9491893
2715 ALFRED SCOTT        9491532
2727 GERRIT SCHREUR    3 9491336
2733 R L EDISON          9490820
2743 WAYNE H FELLOWS     9490485
2751 HENRY DOLL        4 9492127
2779 JERRY F KINNEY    0 9490288
2780                NP
2789 DAVID C PUTNEY    9 9497658
2795 C B WARNERS         9491557
2796 JOHN J TIMMER       9491555
2800 LESTER R DEKOSTER   9491542
2805 PAUL L CADARET    3 9491558
2808 DR H C HOLKEBOER  I 9496239
2811 GERRIT BAKER      4 9490490
2822 ARTHUR J STROLL     #9497218
2824 MALCOLM SMITH     8 9491556
2826 GUS DEVRIES         9491657
2829*CASCADE CHRISTN CH  9491360
     *REV R GAYLORD      9491360
2833*CASCADE CHRISTN CH  9491261
     *FISH CASCADE CH    9491261
2834 J E MANGNUSDN     9 9494927
2840*THORNS APPLIANCE      9490220
2844*THORNAPPLE HARDWRE  9490940
2896 M FISHER          0 9491285
2898 G G SUTHERLAND    1 9492828
2899 CLARE L SNYDER      9491655
2902 THOMAS CARPENTER  1 9497329
2904 VERN E KINGSLAND    9491957
2914 FRED E BONENKD      9491658
2915 ROBERT L DEJONG   1 9499233
2926 FREDRICK W KELLEY   9491656
2929 CLAUS PAHL        4 9493078
2930 WILLARD CRUMBACK  4 9493981
2950 J W FLETCHER        9491569
2962 RUSSELL L YOUNG     9491433
2965 MARVIN E MINGERINK
                       6 9490131
2975 WALTER K SCHMIOT    9491386
2984 VICTOR LUMLEY       9491385
2986 LLOYD R WINSLOW     9491326
3010 HARRY H SHENG     5 9491347
3021 CHARLES A DEURLOOO  9496839
3024                NP
3032 GEORGE TEACHMAN   8 9497316
3044 EVART C HINELINE    9491376
3056 JACK R LYONS        9491464
3082 J E COPE            9491467
3148 ROBERT JANDERNOA    9491595
3150 W V GRIFFITH      6 9490472
3161 WILLIAM H BENEDICT
                       4 9491471
3191 THOMAS P MITCHELL9  9496206
3199 LEE PATTERSON     0 9492342

      ******R R  1******    49508
3275 NANCY R FRIESEN     -9492432
3285                NP
3312 NORMAN D DEWEERD  5 9492742
3381 R E RIEBEL        3 9498502
3421 BUCK WHITLEY        -9493446
3521 GLADYS KENT         9491337
     WALTER C PALM       9491337
3637 ARTHUR MARTINEZ     9491758
3706 JACK MEYERING       9493557
3900*BEALL MANUFACTURNG-9499070
3910*MONROE INC            #9429820
4224 LEO M VENNEMAN    4 9493811
4359                NP
4410 RICHARD D TOWNSEND
                       1 9493693
4849                NP
4909 BERT VANDERLAAN     6988337
5090 CURT J DANIELS      #6986696
5106 ROBERT HENDERSON  1 6986833
5111 DONALD L RUNOHAUG   MY88356
5138 EDWARD N DEVREE     6988227
5225 THEODORE C RIZOR  8 6986348
5312 C V E RICHARDSON    6986128
5434 CLARENCE COOKE      6988387
5545 RICHARD G HOUSKAMP
                       9 6986354
5584 RICHO B FRIEDRICH   6988607
5610 R F PAFFHAUSEN      6988305
5651 ROBERT F SMITH    1 6988919
5691 R J VANDERSCHUUR  9 6986453
5805 TED L KONING      0 6988922
5871*CASCADE CEMENT      6986820
     JOHN B DENHARTIGH1  6986820
   150 RESIDENCE       10 BUSINESS

THORNAPPLE RIVER SE  ADA

      ******    49301
7148 F DAVID THOMPSON  -6769373
7159*G H WALGREN CO      6769165
7172 EDWARD KUIPER     9 6769667
7195*ADA HTNG&PLMBNG CO  6769106
7199 TRENT M DEJONG      #6765521
7202 CHAS VANTIMMEREN    6761197
7205 DOUGLAS L COOK    4 6761011
7220 JOHN L STRACHAN   0 6769403
7227*ADA COMNTY CH       6761032
     K J BRUINEKOOL    1 6762321
7232 RICHARD DENSMORE  0 6761071
7240                NP
7242 ERWIN WICKS       9 6769549
7254 PETER HAGA        5 6761653
7263                NP
7270*CRDSWELL CABNT SH  #6769989
7276 KATIE SYTSMA      5 6761190
7283 FRANK J HOEKSTRA    6761165
7314                NP
7320                NP
7322                NP
7329                NP
7336 RICHARD ANDRE     9 6769455
7340 JAMES W DECKER      6761871
7349 ROBERT E MORRIS     6761010
7358 DAVID D SMELKER   7 6769240
7369 DOREEN WEAVER       #6765811
     DRISON WEAVER       6765811
7370 VIRGINIA M DALTONO  6769533
7373 OTTO E MEYER        OR65071
7380 WALTER C BUTTRICKO  6761747
7504*COVERED BRDG SHOP   #6762111
   27 RESIDENCE        5 BUSINESS

THORNAPPLE RIVER SE  ALTO

      ******    49302
6020 THOS E HAINSWORTH6  6988863
6050 WM C SCHELTEMA    7 6988468
6051 ROBERT A MILLER     6988608
6078 FRANCIS S VENEMA  5 6986037
6106 WILLIAM L LYSDAHL   6988559
     *SHIRLEY BEAUTY SHP 6988559
6139 A J THORINGTON    4 6986588
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6142 JACK FEUERSTEIN   0 6986217
6146 DOUGLAS N MILLS   1 6986046
6152 LAWRENCE D OTTEN50  6988350
6155 DONALD POSTHUMA     6988623
6160 HERMAN DAWSON       MY88342
6168 TERRY L HOUSE     0 6988926
6180 JOHN E COLLIER      #6986537
6200 LAWRENCE BENN       MY88847
6203 MRS ARLYN COMRIE  0 6986512
6235 RANDOLPH K NANZER   #6986509
6355 CHARLES KAY       1 6986036
6369 EDWARD L POSTMA     #6986763
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6396 C A CARLSON         MY88516
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6519 RUSSELL K EVANS   1 6988406
6621 DUANE A LECOY       MY88651
6633 CECIL E DECKER      MY88288
6639 GEORGE W COOLEY   6 6986057
6651 CARL C HIRT         6988609
6662 DOUGLAS F VERBURG   #6986548
6671 FRANK G RILEY     7 6988604
6694 JACK L LORING     1 6986769
     RAY M REMER         6986017
6719 VICKI COLBORN       #6988872
6724                NP
6731 HARRY H DEHAAN    B 6988505
6765 RALPH BISCHOFF    1 6986249
6766                NP
   37 RESIDENCE        1 BUSINESS

THORNAPPLE RIVER  CALDONA

      ******    49316
6807 ANTHONY STULGAITIS  MY88186
6816 PHILIP A JOYCE      6986263
6823                NP
6980 GROVER SIETING      6988213
6996 WEIR C DUKE       B 6986366
7000 HERBERT C YOUNG     MY88971
7013 GEORGE DELEEUW      MY88372
7024 RONALD M KEATING    6988176
7056 GILBERT W LEWIS     #6986864
7070 ROBERT A PRICE    0 6988729
7090 ROBERT A FRIESTAD1  6986755
7127 ROBERT MARSMAN    7 9493756
7166 ROGER C KEATING   9 6988395
7260 DAVID P PLITE     9 6769679
7262 THOMAS V MCINTYRE   #6986529
7263 FRED W HERR         #6769067
7307 ROBERT E PURDL    0 6769353
7319 EDWARD J LIS      1 6769646
7429 PHILLIP VENNEMAN  9 8911526
7475 JOHN J BIESCHKE   6 8911419
7505                NP
7535                NP
7551 CHARLES L TEBBEN    #8911285
7580 ORVAL K VANRYN      #8918831
7590 GEORGE C WIERENGA   #8918855
7613 LAWRENCE GABRIELSE  #8913514
7693 ROBERT WALSH        8911233
7777 ROBERT WILLIAMS   1 8911412
7850 THEODORE DAMSTRA    #8918881
7860 JAMES SOLLENBERGER
                       7 8918429
7911 A H DUBOIS          8918217
8137 ROBERT B CAMPBELL3  8918572
8150 MICHAEL R ROZELL  6 8911018
8180 GLENN D MILLER    5 8918709
8190                NP
8200                NP
8220 C CARL ERICKSON     8918624
8222 M GLENN TROYER    6 8911017
8238 DALLAS G HUNT     1 8911040
8241 MANLY C ELDRIDGE    8918980
8361 CHARLES E TAYLOR  8 8911538
8398 JESSE LARSON        8911324
8597 ROBERT J ROZELL     #8911311
8600 JAMES HYNES         8918554
   44 RESIDENCE
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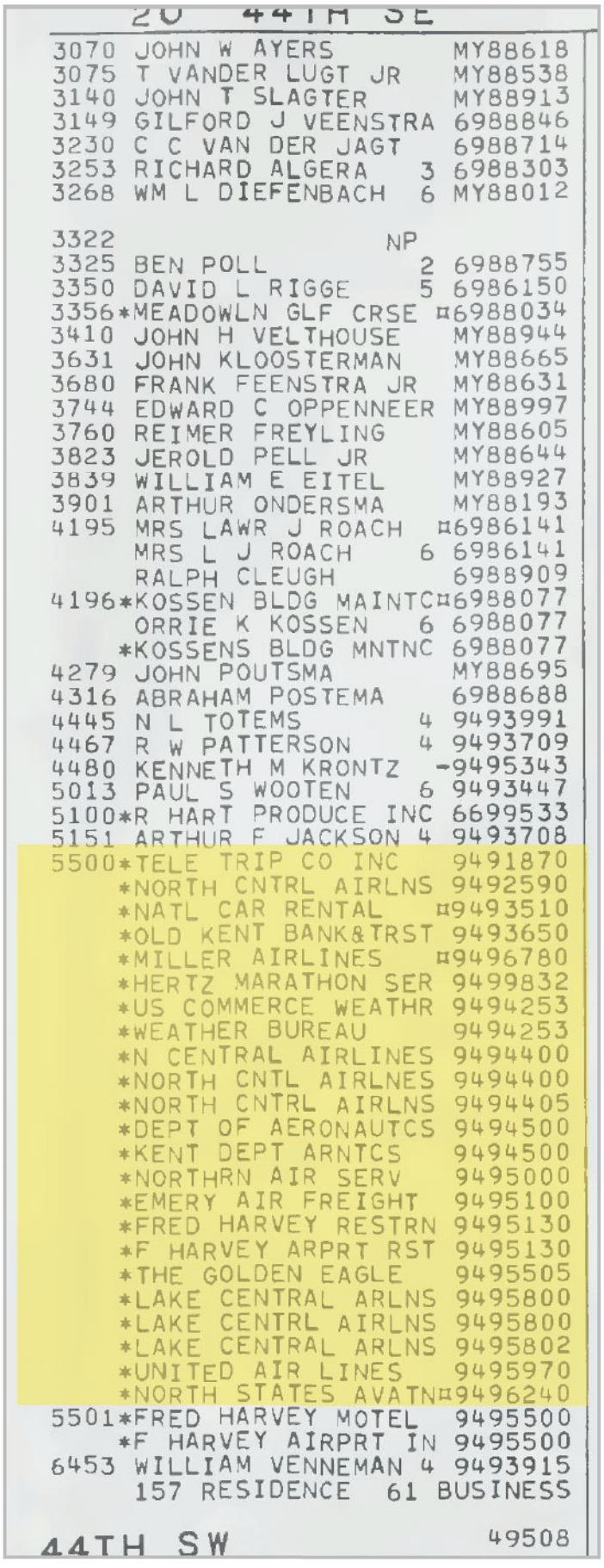
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1967



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3075 T VANDER LUGT JR MY88538
3140 JOHN T SLAGTER MY88913
3149 GILFORD J VEENSTRA 6988846
3230 C C VAN DER JAGT 6988714
3253 RICHARD ALGERA 3 6988303
3268 WM L DIEFENBACH 6 MY88012

3322 NP
3325 BEN POLL 2 6988755
3350 DAVID L RIGGE 5 6986150
3356*MEADOWLN GLF CRSE ¤6988034
3410 JOHN H VELTHOUSE MY88944
3631 JOHN KLOOSTERMAN MY88665
3680 FRANK FEENSTRA JR MY88631
3744 EDWARD C OPPENNEER MY88997
3760 REIMER FREYLING MY88605
3823 JEROLD PELL JR MY88644
3839 WILLIAM E EITEL MY88927
3901 ARTHUR ONDERSMA MY88193
4195 MRS LAWR J ROACH ¤6986141
MRS L J ROACH 6 6986141
RALPH CLEUGH 6988909
4196*KOSSEN BLDG MAINTC¤6988077
ORRIE K KOSSEN 6 6988077
*KOSSENS BLDG MNTNC 6988077
4279 JOHN POUTSMA MY88695
4316 ABRAHAM POSTEMA 6988688
4445 N L TOTEMS 4 9493991
4467 R W PATTERSON 4 9493709
4480 KENNETH M KRONTZ -9495343
5013 PAUL S WOOTEN 6 9493447
5100*R HART PRODUCE INC 6699533
5151 ARTHUR F JACKSON 4 9493708
5500*TELE TRIP CO INC 9491870
*NORTH CNTRL AIRLNS 9492590
*NATL CAR RENTAL ¤9493510
*OLD KENT BANK&TRST 9493650
*MILLER AIRLINES ¤9496780
*HERTZ MARATHON SER 9499832
*US COMMERCE WEATHR 9494253
*WEATHER BUREAU 9494253
*N CENTRAL AIRLINES 9494400
*NORTH CNTL AIRLNES 9494400
*NORTH CNTRL AIRLNS 9494405
*DEPT OF AERONAUTCS 9494500
*KENT DEPT ARNTCS 9494500
*NORTHRN AIR SERV 9495000
*EMERY AIR FREIGHT 9495100
*FRED HARVEY RESTRN 9495130
*F HARVEY ARPRT RST 9495130
*THE GOLDEN EAGLE 9495505
*LAKE CENTRAL ARLNS 9495800
*LAKE CENTRL AIRLNS 9495800
*LAKE CENTRAL ARLNS 9495802
*UNITED AIR LINES 9495970
*NORTH STATES AVATN¤9496240
5501*FRED HARVEY MOTEL 9495500
*F HARVEY AIRPRT IN 9495500
6453 WILLIAM VENNEMAN 4 9493915
157 RESIDENCE 61 BUSINESS

44TH SW 49508

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1967

```
2811 GERRIT BAKER          4 9490490
2822 THELMA I HUBBARD      5 9491364
2824 R F SMITH              9491556
2826 GUS DE VRIES           9491657
2829*CASCADE CHRISTN CH     9491360
    *REV R GAYLORD          9491360
2834 HENRY R DE VRIES       9491559
2839*CASCADE TWP OFC       -9490523
2840*THORNS APPL TV&REC     9490220
2844*THORNAPPLE HARDWRE     9490940
2896 M FRANCES HEFFRON      9491374
2899 CLARE L SNYDER         9491655
2902 KATHRYN HARRIS         9491682
2904 VERN E KINGSLAND       9491957
2914 FRED E BONENKO         9491658
2915 JAMES M CARR          5 9492395
2926 FREDK W KELLEY         9491656
2929 CLAUS PAHL            4 9493078
2930 WILLARD CRUMBACK      4 9493981
2950 J W FLETCHER           9491569
2962 RUSSELL L YOUNG        9491433
2965 MARVIN MINGERINK      6 9490131
2975 WALTER K SCHMIDT       9491386
2984 VICTOR LUMLEY          9491385
2986 LLOYD R WINSLOW        9491326
3007 ADRIAN H VERSPOOR      9492782
3010 HARRY H T SHENG       5 9491347
3021*EWALD STEEL CO        -9496300
    *UNITED WIRE CO        ¤9496300
3024 JACOB J VISSER        5 9491958
3032                    NP
3044 EVART C HINELINE       9491376
3056 JACK R LYONS           9491464
3082 J E COPE               9491467
3148 ROBERT JANDERNOA       9491595
3150 W V GRIFFITH          6 9490472
3161 WM H BENEDICT JR      4 9491471
3191 NORM R CREAMER        6 9494126
     THOMAS CRAMER         ¤9496276

     ..................      49508
3275 GREGORY L FREY        6 9493445
3312 NORMAN D DEWEERD      5 9492742
3421 A VAN DER WEIDE       5 9493012
3521 GLADYS KENT            9491337
     WALTER C PALM          9491337
3637 ARTHUR MARTINEZ        9491758
3706 JACK MEYERING          9493557
4224 LEO M VENNEMAN        4 9493811
4359                    NP
4410 PAT KELLEY           ¤9496789
4849 DONALD P BOTTING      MY88730
4909 BERT VANDERLAAN        6988337
5090 R L VANDER MEULEN6    6988101
     R L VANDERMEULEN 4    6988101
5106 CHARLES R SHIELS 5    6988138
5111 DONALD L RUNDHAUG     MY88356
5138 EDWARD N DEVREE       MY88227
5225 LARRY P LINK          6 6986177
5312 C V E RICHARDSON       6986128
5434 CLARENCE COOKE        MY88387
5584 RICHD B FRIEDRICH     MY88607
5610 R F PAFFHAUSEN        MY88305
5805 NORMAN SWAINSTON      MY88664
     142 RESIDENCE    9 BUSINESS
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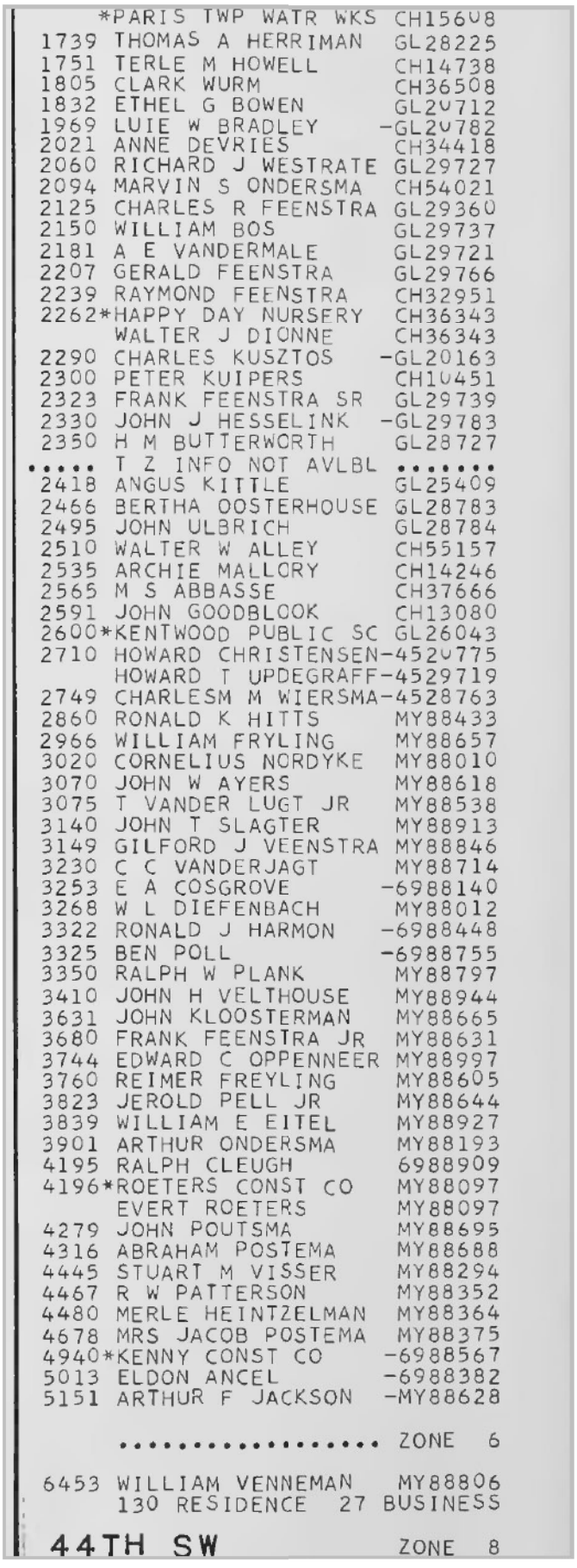
Target Street	Cross Street	Source
✔	-	Bresser's Cross-Index Directory

44TH ST SE 1962



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     *PARIS TWP WATR WKS CH15608
 1739 THOMAS A HERRIMAN  GL28225
 1751 TERLE M HOWELL     CH14738
 1805 CLARK WURM         CH36508
 1832 ETHEL G BOWEN      GL20712
 1969 LUIE W BRADLEY    -GL20782
 2021 ANNE DEVRIES       CH34418
 2060 RICHARD J WESTRATE GL29727
 2094 MARVIN S ONDERSMA  CH54021
 2125 CHARLES R FEENSTRA GL29360
 2150 WILLIAM BOS        GL29737
 2181 A E VANDERMALE     GL29721
 2207 GERALD FEENSTRA    GL29766
 2239 RAYMOND FEENSTRA   CH32951
 2262*HAPPY DAY NURSERY  CH36343
      WALTER J DIONNE    CH36343
 2290 CHARLES KUSZTOS   -GL20163
 2300 PETER KUIPERS      CH10451
 2323 FRANK FEENSTRA SR  GL29739
 2330 JOHN J HESSELINK  -GL29783
 2350 H M BUTTERWORTH    GL28727
..... T Z INFO NOT AVLBL .......
 2418 ANGUS KITTLE       GL25409
 2466 BERTHA OOSTERHOUSE GL28783
 2495 JOHN ULBRICH       GL28784
 2510 WALTER W ALLEY     CH55157
 2535 ARCHIE MALLORY     CH14246
 2565 M S ABBASSE        CH37666
 2591 JOHN GOODBLOOK     CH13080
 2600*KENTWOOD PUBLIC SC GL26043
 2710 HOWARD CHRISTENSEN-4520775
      HOWARD T UPDEGRAFF-4529719
 2749 CHARLESM M WIERSMA-4528763
 2860 RONALD K HITTS     MY88433
 2966 WILLIAM FRYLING    MY88657
 3020 CORNELIUS NORDYKE  MY88010
 3070 JOHN W AYERS       MY88618
 3075 T VANDER LUGT JR   MY88538
 3140 JOHN T SLAGTER     MY88913
 3149 GILFORD J VEENSTRA MY88846
 3230 C C VANDERJAGT     MY88714
 3253 E A COSGROVE      -6988140
 3268 W L DIEFENBACH     MY88012
 3322 RONALD J HARMON   -6988448
 3325 BEN POLL          -6988755
 3350 RALPH W PLANK      MY88797
 3410 JOHN H VELTHOUSE   MY88944
 3631 JOHN KLOOSTERMAN   MY88665
 3680 FRANK FEENSTRA JR  MY88631
 3744 EDWARD C OPPENNEER MY88997
 3760 REIMER FREYLING    MY88605
 3823 JEROLD PELL JR     MY88644
 3839 WILLIAM E EITEL    MY88927
 3901 ARTHUR ONDERSMA    MY88193
 4195 RALPH CLEUGH        6988909
 4196*ROETERS CONST CO   MY88097
      EVERT ROETERS      MY88097
 4279 JOHN POUTSMA       MY88695
 4316 ABRAHAM POSTEMA    MY88688
 4445 STUART M VISSER    MY88294
 4467 R W PATTERSON      MY88352
 4480 MERLE HEINTZELMAN  MY88364
 4678 MRS JACOB POSTEMA  MY88375
 4940*KENNY CONST CO    -6988567
 5013 ELDON ANCEL       -6988382
 5151 ARTHUR F JACKSON  -MY88628

      ..................ZONE  6

 6453 WILLIAM VENNEMAN   MY88806
      130 RESIDENCE  27 BUSINESS

 44TH SW                 ZONE  8
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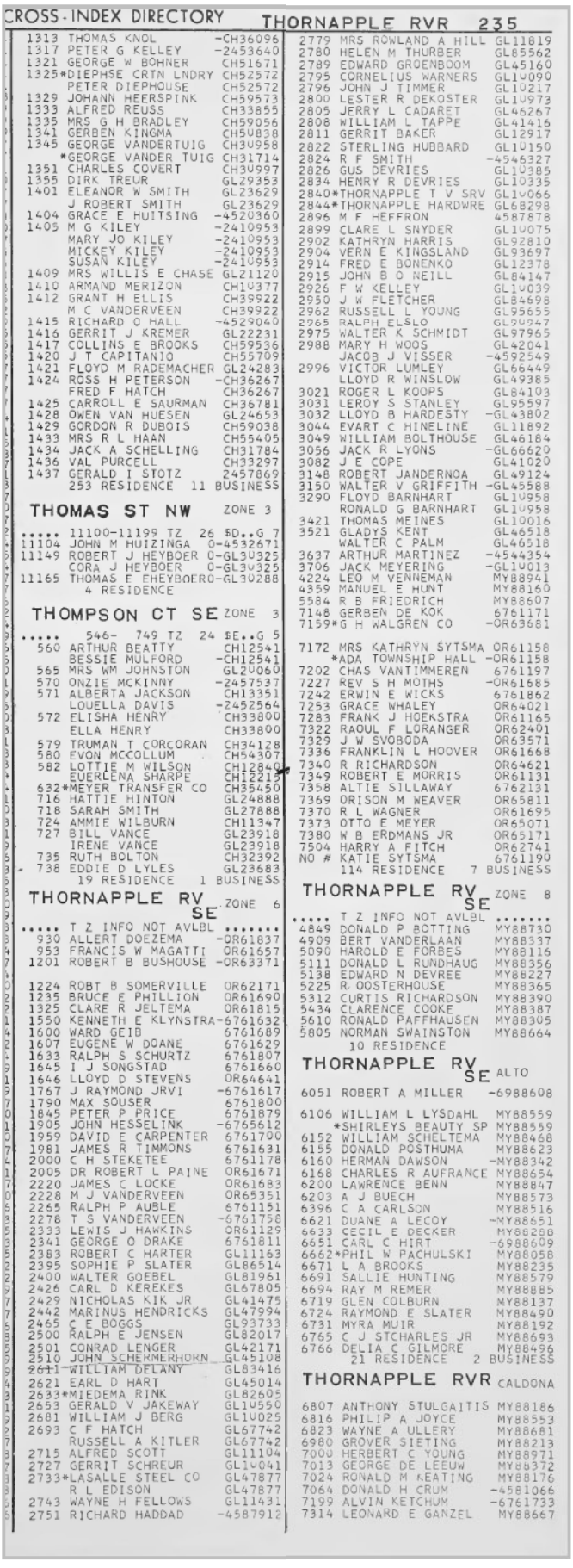
Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1962



CROSS-INDEX DIRECTORY THORNAPPLE RVR 235

1313 THOMAS KNOL -CH36096
1317 PETER G KELLEY -2453640
1321 GEORGE W BOHNER CH51671
1325*DIEPHSE CRTN LNDRY CH52572
PETER DIEPHOUSE CH52572
1329 JOHANN HEERSPINK CH59573
1333 ALFRED REUSS CH33855
1335 MRS G H BRADLEY CH59056
1341 GERBEN KINGMA CH5U838
1345 GEORGE VANDERTUIG CH3U958
*GEORGE VANDER TUIG CH31714
1351 CHARLES COVERT CH3U997
1355 DIRK TREUR GL29353
1401 ELEANOR W SMITH GL23629
J ROBERT SMITH GL23629
1404 GRACE E HUITSING -4520360
1405 M G KILEY -2410953
MARY JO KILEY -2410953
MICKEY KILEY -2410953
SUSAN KILEY -2410953
1409 MRS WILLIS E CHASE GL21120
1410 ARMAND MERIZON CH1U377
1412 GRANT H ELLIS CH39922
M C VANDERVEEN CH39922
1415 RICHARD O HALL -4529040
1416 GERRIT J KREMER GL22231
1417 COLLINS E BROOKS CH59536
1420 J T CAPITANIO CH55709
1421 FLOYD M RADEMACHER GL24283
1424 ROSS H PETERSON -CH36267
FRED F HATCH CH36267
1425 CARROLL E SAURMAN CH36781
1428 OWEN VAN HUESEN GL24653
1429 GORDON R DUBOIS CH59038
1433 MRS R L HAAN CH55405
1434 JACK A SCHELLING CH31784
1436 VAL PURCELL CH33297
1437 GERALD I STOTZ 2457869
253 RESIDENCE 11 BUSINESS

THOMAS ST NW ZONE 3

..... 11100-11199 TZ 26 $D..G 7
11104 JOHN M HUIZINGA 0-4532671
11149 ROBERT J HEYBOER 0-GL3U325
CORA J HEYBOER 0-GL3U325
11165 THOMAS E EHEYBOERO-GL3U288
4 RESIDENCE

THOMPSON CT SE ZONE 3

..... 546- 749 TZ 24 $E..G 5
560 ARTHUR BEATTY CH12541
BESSIE MULFORD -CH12541
565 MRS WM JOHNSTON GL2U060
570 ONZIE MCKINNY -2457537
571 ALBERTA JACKSON CH13351
LOUELLA DAVIS -2452564
572 ELISHA HENRY CH33800
ELLA HENRY CH33800
579 TRUMAN T CORCORAN CH34128
580 EVON MCCOLLUM CH54307
582 LOTTIE M WILSON CH12849
EUERLENA SHARPE CH12215
632*MEYER TRANSFER CO CH35450
716 HATTIE HINTON GL24888
718 SARAH SMITH GL27888
724 AMMIE WILBURN CH11347
727 BILL VANCE GL23918
IRENE VANCE GL23918
735 RUTH BOLTON CH32392
738 EDDIE D LYLES GL23683
19 RESIDENCE 1 BUSINESS

THORNAPPLE RV SE ZONE 6

..... T Z INFO NOT AVLBL .....
930 ALLERT DOEZEMA -OR61837
953 FRANCIS W MAGATTI OR61657
1201 ROBERT B BUSHOUSE -OR63371

1224 ROBT B SOMERVILLE OR62171
1235 BRUCE E PHILLION OR61690
1325 CLARE R JELTEMA OR61815
1550 KENNETH E KLYNSTRA-6761632
1600 WARD GEIB 6761689
1607 EUGENE W DOANE 6761629
1633 RALPH S SCHURTZ 6761807
1645 I J SONGSTAD 6761660
1646 LLOYD D STEVENS OR64641
1767 J RAYMOND JRVI -6761617
1790 MAX SOUSER 6761800
1845 PETER P PRICE 6761879
1905 JOHN HESSELINK -6765612
1959 DAVID E CARPENTER 6761700
1981 JAMES R TIMMONS 6761631
2000 C H STEKETEE 6761178
2005 DR ROBERT L PAINE OR61671
2220 JAMES C LOCKE OR61683
2228 M J VANDERVEEN OR65351
2265 RALPH P AUBLE 6761151
2278 T S VANDERVEEN -6761758
2333 LEWIS J HAWKINS OR61129
2341 GEORGE O DRAKE 6761811
2383 ROBERT C HARTER GL11163
2395 SOPHIE P SLATER GL86514
2400 WALTER GOEBEL GL81961
2426 CARL D KEREKES GL67805
2429 NICHOLAS KIK JR GL41475
2442 MARINUS HENDRICKS GL47994
2465 C E BOGGS GL93733
2500 RALPH E JENSEN GL82017
2501 CONRAD LENGER GL42171
2510 JOHN SCHERMERHORN GL45108
2611 WILLIAM DELANY GL83416
2621 EARL D HART GL45014
2633*MIEDEMA RINK GL82605
2653 GERALD V JAKEWAY GL1U550
2681 WILLIAM J BERG GL1U025
2693 C F HATCH GL67742
RUSSELL A KITLER GL67742
2715 ALFRED SCOTT GL11104
2727 GERRIT SCHREUR GL1U041
2733*LASALLE STEEL CO GL47877
R L EDISON GL47877
2743 WAYNE H FELLOWS GL11431
2751 RICHARD HADDAD -4587912

2779 MRS ROWLAND A HILL GL11819
2780 HELEN M THURBER GL85562
2789 EDWARD GROENBOOM GL45160
2795 CORNELIUS WARNERS GL1U090
2796 JOHN J TIMMER GL1U217
2800 LESTER R DEKOSTER GL1U973
2805 JERRY L CADARET GL46267
2808 WILLIAM L TAPPE GL41416
2811 GERRIT BAKER GL12917
2822 STERLING HUBBARD GL1U150
2824 R F SMITH -4546327
2826 GUS DEVRIES GL1U385
2834 HENRY R DEVRIES GL10335
2840*THORNAPPLE T V SRV GL1U066
2844*THORNAPPLE HARDWRE GL68298
2896 M F HEFFRON 4587878
2899 CLARE L SNYDER GL1U075
2902 KATHRYN HARRIS GL92810
2904 VERN E KINGSLAND GL93697
2914 FRED E BONENKO GL12378
2915 JOHN B O NEILL GL84147
2926 F W KELLEY GL1U039
2950 J W FLETCHER GL84698
2962 RUSSELL L YOUNG GL95655
2965 RALPH ELSLO GL90947
2975 WALTER K SCHMIDT GL97965
2988 MARY H WOOS GL42041
JACOB J VISSER -4592549
2996 VICTOR LUMLEY GL66449
LLOYD R WINSLOW GL49385
3021 ROGER L KOOPS GL84103
3031 LEROY S STANLEY GL95597
3032 LLOYD B HARDESTY -GL43802
3044 EVART C HINELINE GL11892
3049 WILLIAM BOLTHOUSE GL46184
3056 JACK R LYONS -GL66620
3082 J E COPE GL41020
3148 ROBERT J ANDERNOA GL49124
3150 WALTER V GRIFFITH -GL45588
3290 FLOYD BARNHART GL1U958
RONALD G BARNHART GL1U958
3421 THOMAS MEINES GL10016
3521 GLADYS KENT GL46518
WALTER C PALM GL46518
3637 ARTHUR MARTINEZ -4544354
3706 JACK MEYERING -GL1U013
4224 LEO M VENNEMAN MY88941
4359 MANUEL E HUNT MY88160
5584 R B FRIEDRICH MY88607
7148 GERBEN DE KOK 6761171
7159*G H WALGREN CO -OR63681

7172 MRS KATHRYN SYTSMA OR61158
*ADA TOWNSHIP HALL -OR61158
7202 CHAS VANTIMMEREN 6761197
7227 REV S H MOTHS -OR61685
7242 ERWIN E WICKS 6761862
7253 GRACE WHALEY OR64021
7283 FRANK J HOEKSTRA OR61165
7322 RAOUL F LORANGER OR62401
7329 J W SVOBODA OR63571
7336 FRANKLIN L HOOVER OR61668
7340 R RICHARDSON OR64621
7349 ROBERT E MORRIS OR61131
7358 ALTIE SILLAWAY 6762131
7369 ORISON M WEAVER OR65811
7370 R L WAGNER OR61695
7373 OTTO E MEYER OR65071
7380 W B ERDMANS JR OR65171
7504 HARRY A FITCH OR62741
NO # KATIE SYTSMA 6761190
114 RESIDENCE 7 BUSINESS

THORNAPPLE RV SE ZONE 8

..... T Z INFO NOT AVLBL .....
4849 DONALD P BOTTING MY88730
4909 BERT VANDERLAAN MY88337
5090 HAROLD E FORBES MY88116
5111 DONALD L RUNDHAUG MY88356
5138 EDWARD N DEVREE MY88227
5225 R OOSTERHOUSE MY88365
5312 CURTIS RICHARDSON MY88390
5434 CLARENCE COOKE MY88387
5610 RONALD PAFFHAUSEN MY88305
5805 NORMAN SWAINSTON MY88664
10 RESIDENCE

THORNAPPLE RV SE ALTO

6051 ROBERT A MILLER -6988608

6106 WILLIAM L LYSDAHL MY88559
*SHIRLEYS BEAUTY SP MY88559
6152 WILLIAM SCHELTEMA MY88468
6155 DONALD POSTHUMA MY88623
6160 HERMAN DAWSON -MY88342
6168 CHARLES R AUFRANCE MY88654
6200 LAWRENCE BENN MY88847
6203 A J BUECH MY88573
6396 C A CARLSON MY88516
6621 DUANE A LECOY -MY88651
6633 CECIL E DECKER MY88288
6651 CARL C HIRT -6988609
6662*PHIL W PACHULSKI MY88058
6671 L A BROOKS MY88235
6691 SALLIE HUNTING MY88579
6694 RAY M REMER MY88885
6719 GLEN COLBURN MY88137
6724 RAYMOND E SLATER MY88490
6731 MYRA MUIR MY88192
6765 C J STCHARLES JR MY88693
6766 DELIA C GILMORE MY88496
21 RESIDENCE 2 BUSINESS

THORNAPPLE RVR CALDONA

6807 ANTHONY STULGAITIS MY88186
6816 PHILIP A JOYCE MY88553
6823 WAYNE A ULLERY MY88681
6980 GROVER SIETING MY88213
7000 HERBERT C YOUNG MY88971
7013 GEORGE DE LEEUW MY88372
7024 RONALD M KEATING MY88176
7064 DONALD H CRUM -4581066
7199 ALVIN KETCHUM -6761733
7314 LEONARD E GANZEL MY88667

Target Street	Cross Street	Source
✓	-	Bresser's Cross-Index Directory

44TH ST SE 1959

2674	S CHRISTENSEN	CH1-2540
	*CHRISTENSEN TPFF	CH1-2540
44 th	SE	ZONE 6
2966	WM FRYLING	MY8-8657
3020	C NORDYKE	MY8-8010
3070	JOHN W AYERS	MY8-8618
3075	WAYNE VERSTRATE	MY8-859B
3140	JOHN T SLAGTER	MY8-8913
3149	G VEENSTRA	MY8-8846
3165	G J VEENSTRA	MY8-8B46
3230	C C VAN DER JAGT	MY8-8714
	WM H HUTCHINSON	MYB-8423
3253	BEN POLL	MY8-8696
3268	WM L DIEFENBACH	MY8-8012
3350	RALPH PLANK	MY8-8797
3410	J H VELTHOUSE	MY8-8944
3631	JOHN KLOSSTERMAN	MY8-8665
3680	FRANK FEENSTRA	MY8-8001
3760	DOROTHY STEVENS	MY8-8605
	REIMER FREYLING	MY8-8605
3B23	JEROLD PELL	MY8-8644
3839	RALPH ONDERSMA	MY8-8935
3901	A ONDERSMA	MY8-8193
4195	RALPH CLEUGH	MY8-8682
4196	EVERT ROETERS	MY8-8769
4279	JOHN POUTSMA	MY8-8695
4316	A POSTEMA	MY8-B68B
4445	ERNEST AUSTHOF	MY8-8395
4467	R W PATTERSON	MY8-8352
4480	MERLE HEINTZELMAN	MY8-8364
467B	JACOB POSTEMA	MY8-8375
4940	JEAN WEATHERBY	MY8-8632
5013	JACK M LOWE	MYB-8308
5045	ROBT D JOHNSON	MY8-8856
5101	MATT WHITE	MY8-8302
	MATT WHIRE	MY8-8302
5117	THOS GOORHOUSE	MY8-8157
5151	H A VAN KOEVERING	MY8-8386
5225	CHESTER W NEAL	MY8-8609
5251	JAS A MUSTE	MY8-8564
5305	JACK GREEN	MY8-8140
5311	WARNER J BRUINS	MY8-BB98
5331	JACK THORNTON	MY8-8498
6453	WM VENNEMAN	MY8-8806
	139 RES 23 BUS	
44 th	SW	ZONE 8

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

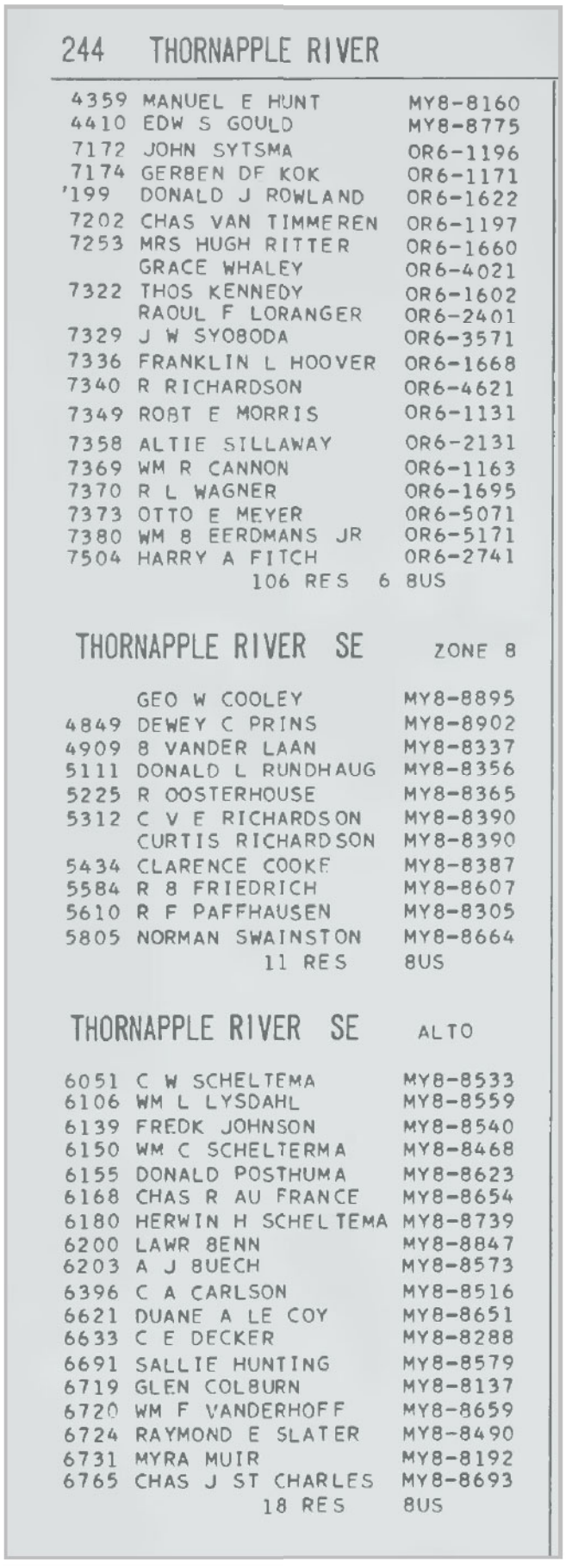
THORNAPPLE RIVER DR SE 1959

THORNAPPLE RIVER SE ZONE 6

	KATIE SYTSMA	OR6-1190
	MARIE SOMERVILLE	OR6-2171
	*POWER HSE	OR6-4411
1201	ROBT B BUSHOUSE	OR6-3371
1235	MARTIN J FRAHM	OR6-2821
1550	H EDMUND MATTHEWS	OR6-2931
1600	WARD GEIB	OR6-5616
1607	FREDICK M DOANE	OR6-4258
1633	RALPH S SCHURTZ	OR6-4684
1645	I J SONSTAD	OR6-4252
1768	W C AFTON JR	OR6-4682
1772	KENNETH NELLIST	OR6-4686
	GROVER FASE	OR6-4687
	GEO F AMOS JR	OR6-4851
1790	MAX SOUSER	OR6-4688
1845	PETER P PRICE	OR6-4111
1905	RICHARD HUSTY	OR6-4853
1959	DAVID E CARPENTER	OR6-4856
1981	J R TIMMONS	OR6-1631
2000	C H STEKETEE	OR6-1178
2005	ROBT L PAINE DDS	OR6-4854
2220	JAS C LOCKE	OR6-1683
2333	LEWIS J HAWKINS	OR6-1129
2341	GEO O ORAKE	OR6-5392
2383	ROBT C HARTER	GL1-0770
2395	R J SLATER	GL8-6514
2400	WALTER GOEBEL	GL8-1961
2426	C D KEREKES	GL6-7805
2429	NICHOLAS KIK JR	GL4-1475
2442	MARINUS HENDRICKS	GL1-0704
2465	C E BOGGS	GL9-3733
	*HERFF JONES CO	GL9-3733
	*MICH SCHL PICTURE	GL6-6920
2500	RALPH E JENSEN	GL8-2017
2501	CONRAD LENGER	GL4-2171
2510	WM A FLETCHER	GL1-2028
2611	WM DE LANY	GL8-3416
2633	R MIEDEMA	GL8-2605
2653	RUSSELL W CASE	GL4-6649
2670	FREDK K WYKES	GL1-0777
2681	WM J BERG	GL1-0025
2693	RUSSELL A KITLER	GL6-7742
	C F HATCH	GL6-7742
2715	ALFREO SCOTT	GL1-0644
2727	GERRIT SCHREUR	GL1-0041
2733	*LA SALLE STEEL CO	GL4-7877
	R L EDISON	GL4-7877
2743	WAYNE H FELLOWS	GL1-0653
2751	LYLE E DYKHUIZEN	GL1-0711
2779	MRS A R HILL	GL1-3048
2780	HELEN M THURBER	GL8-5562
2789	EOW GROENBOOM	GL4-5160
2795	CORNELIUS WARNERS	GL1-0090
2796	JOHN J TIMMER	GL1-0639
2800	LESTER R DE KOSTER	GL1-0973
2808	JACK C OSTROM	GL4-1140
2811	G BAKER	GL1-2917
2821	ROGER I WYKES JR	GL8-5570
2822	STERLING HUBBARD	GL1-0150
2824	FRED OE YOUNG	GL1-0883
2826	*THORNAPPLE RV SERV	GL1-0066
	GUS OE VRIES	GL1-0603
2827	FRANK DE VRIES	GL6-9815
2834	LLOYD A OEAN	GL1-3057
2896	CHAS H COMPTON	GL9-4858
2899	CLARE L SNYDER	GL1-0075
2902	KATHRYN HARRIS	GL9-2810
2904	VERN E KINGSLAND	GL9-3697
2914	FRED F BONENKO	GL1-0086
2915	R O NEILL	GL6-6779
2926	FREOK W KELLEY	GL1-0039
2950	J W FLETCHER	GL8-4698
2962	RUSSELL L YOUNG	GL9-5655
2965	RALPH ELSLO	GL9-0947
2975	WALTER K SCHMIDT	GL9-7965
2984	VICTOR LUMLEY	GL6-6449
2986	LLOYO R WINSLO	GL4-9385
2988	SOL WANROOY	GL1-0279
	MARY H WOOD	GL4-2041
2990	LLOYO B HARDESTY	GL4-3802
2995	ROGER L KOOPS	GL8-4103
3065	LARRY L BROWN	GL6-7738
3070	JACK R LYONS	GL6-6620
3082	ROBT F COPF	GL4-1020
3100	ROBT JANOERNOA	GL4-9124
3110	PETER C BOOGERT	GL1-0664
3120	*W V GRIFFITH CONTR	GL9-7839
3421	THOS MEINES	GL1-2050
3521	WALTER C PALM	GL1-0720
	G KENT	GL1-0720
3796	JACK MEYERING	GL1-3098
4075	GEO R VENNEMAN	MY8-8549

Target Street	Cross Street	Source
-	✓	Bresser's Cross-Index Directory

THORNAPPLE RIVER DR SE 1959



244 THORNAPPLE RIVER

4359	MANUEL E HUNT	MY8-8160
4410	EDW S GOULD	MY8-8775
7172	JOHN SYTSMA	OR6-1196
7174	GERBEN DE KOK	OR6-1171
'199	DONALD J ROWLAND	OR6-1622
7202	CHAS VAN TIMMEREN	OR6-1197
7253	MRS HUGH RITTER	OR6-1660
	GRACE WHALEY	OR6-4021
7322	THOS KENNEDY	OR6-1602
	RAOUL F LORANGER	OR6-2401
7329	J W SYOBODA	OR6-3571
7336	FRANKLIN L HOOVER	OR6-1668
7340	R RICHARDSON	OR6-4621
7349	ROBT E MORRIS	OR6-1131
7358	ALTIE SILLAWAY	OR6-2131
7369	WM R CANNON	OR6-1163
7370	R L WAGNER	OR6-1695
7373	OTTO E MEYER	OR6-5071
7380	WM B EERDMANS JR	OR6-5171
7504	HARRY A FITCH	OR6-2741
	106 RES 6 BUS	

THORNAPPLE RIVER SE ZONE 8

	GEO W COOLEY	MY8-8895
4849	DEWEY C PRINS	MY8-8902
4909	B VANDER LAAN	MY8-8337
5111	DONALD L RUNDHAUG	MY8-8356
5225	R OOSTERHOUSE	MY8-8365
5312	C V E RICHARDSON	MY8-8390
	CURTIS RICHARDSON	MY8-8390
5434	CLARENCE COOKE	MY8-8387
5584	R B FRIEDRICH	MY8-8607
5610	R F PAFFHAUSEN	MY8-8305
5805	NORMAN SWAINSTON	MY8-8664
	11 RES	BUS

THORNAPPLE RIVER SE ALTO

6051	C W SCHELTEMA	MY8-8533
6106	WM L LYSDAHL	MY8-8559
6139	FREDK JOHNSON	MY8-8540
6150	WM C SCHELTERMA	MY8-8468
6155	DONALD POSTHUMA	MY8-8623
6168	CHAS R AU FRANCE	MY8-8654
6180	HERWIN H SCHELTEMA	MY8-8739
6200	LAWR BENN	MY8-8847
6203	A J BUECH	MY8-8573
6396	C A CARLSON	MY8-8516
6621	DUANE A LE COY	MY8-8651
6633	C E DECKER	MY8-8288
6691	SALLIE HUNTING	MY8-8579
6719	GLEN COLBURN	MY8-8137
6720	WM F VANDERHOFF	MY8-8659
6724	RAYMOND E SLATER	MY8-8490
6731	MYRA MUIR	MY8-8192
6765	CHAS J ST CHARLES	MY8-8693
	18 RES	BUS

A1 and A28

5500 44th Street SE

Grand Rapids, MI 49512

Inquiry Number: 6946651.4

April 19, 2022

EDR Historical Topo Map Report

with QuadMatch™

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

EDR Historical Topo Map Report

04/19/22

Site Name:

A1 and A28
5500 44th Street SE
Grand Rapids, MI 49512
EDR Inquiry # 6946651.4

Client Name:

BLDI Consultants
150 Fountain Place
Grand Rapids, MI 49503
Contact: Rachel Kane

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

Search Results:

P.O.# 225360.01
Project: A1 and A28

Coordinates:

Latitude:	42.886718 42° 53' 12" North
Longitude:	-85.512406 -85° 30' 45" West
UTM Zone:	Zone 16 North
UTM X Meters:	621474.88
UTM Y Meters:	4749308.47
Elevation:	777.52' above sea level

Maps Provided:

2019
2017
2016
2014
1978, 1981, 1982
1972
1967
1914, 1918

Disclaimer - Copyright and Trademark Notice

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

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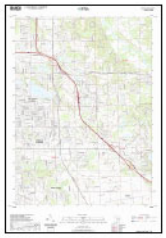
Topo Sheet Key

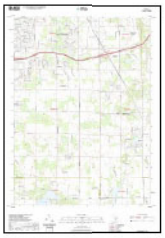
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2019 Source Sheets

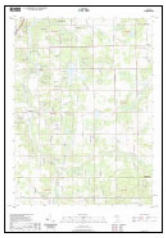


Grand Rapids East
2019
7.5-minute, 24000

Cascade
2019
7.5-minute, 24000

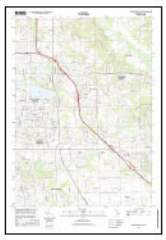


Caledonia
2019
7.5-minute, 24000



Alto
2019
7.5-minute, 24000

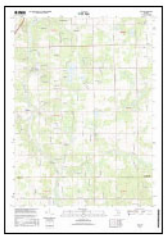
2017 Source Sheets



Grand Rapids East
2017
7.5-minute, 24000

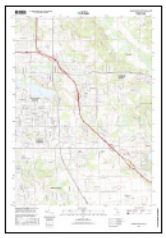
Cascade
2017
7.5-minute, 24000

Caledonia
2017
7.5-minute, 24000



Alto
2017
7.5-minute, 24000

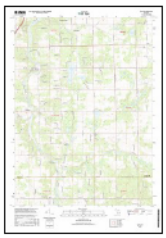
2016 Source Sheets



Grand Rapids East
2016
7.5-minute, 24000

Cascade
2016
7.5-minute, 24000

Caledonia
2016
7.5-minute, 24000



Alto
2016
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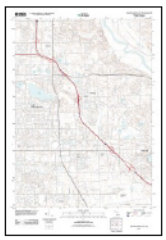
2014 Source Sheets



Grand Rapids East
2014
7.5-minute, 24000

Cascade
2014
7.5-minute, 24000

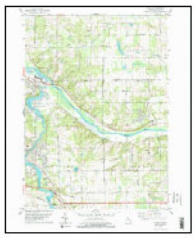
Caledonia
2014
7.5-minute, 24000

Alto
2014
7.5-minute, 24000

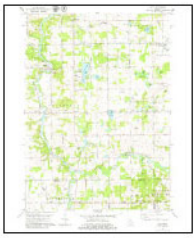
Topo Sheet Key

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

1978, 1981, 1982 Source Sheets

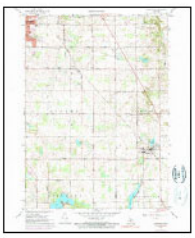


Cascade
1978
7.5-minute, 24000
Aerial Photo Revised 1974



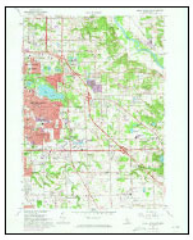
Alto
1978
7.5-minute, 24000
Aerial Photo Revised 1974

Grand Rapids East
1981
7.5-minute, 24000
Aerial Photo Revised 1980

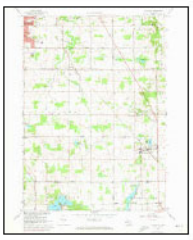


Caledonia
1982
7.5-minute, 24000
Aerial Photo Revised 1972

1972 Source Sheets

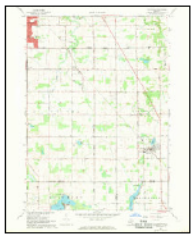


Grand Rapids East
1972
7.5-minute, 24000
Aerial Photo Revised 1972

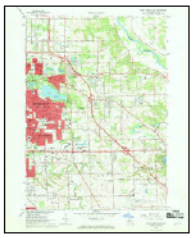


Caledonia
1972
7.5-minute, 24000
Aerial Photo Revised 1972

1967 Source Sheets



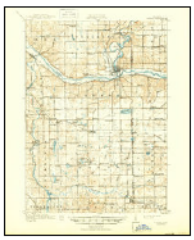
Caledonia
1967
7.5-minute, 24000
Aerial Photo Revised 1965



Grand Rapids East
1967
7.5-minute, 24000
Aerial Photo Revised 1965

1914, 1918 Source Sheets

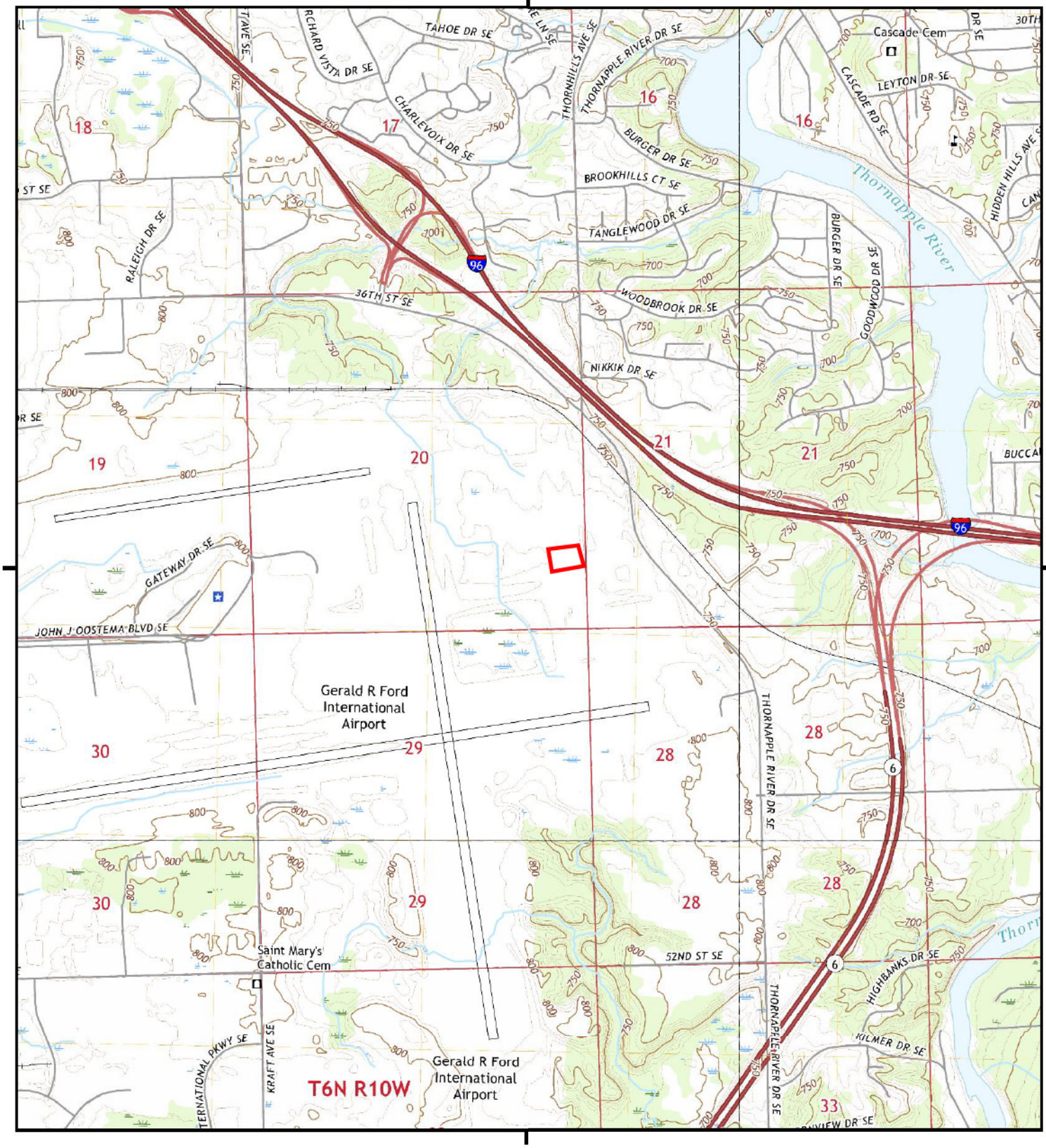
Grand Rapids
1914
15-minute, 62500



Lowell
1918
15-minute, 62500

Historical Topo Map

2019



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

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

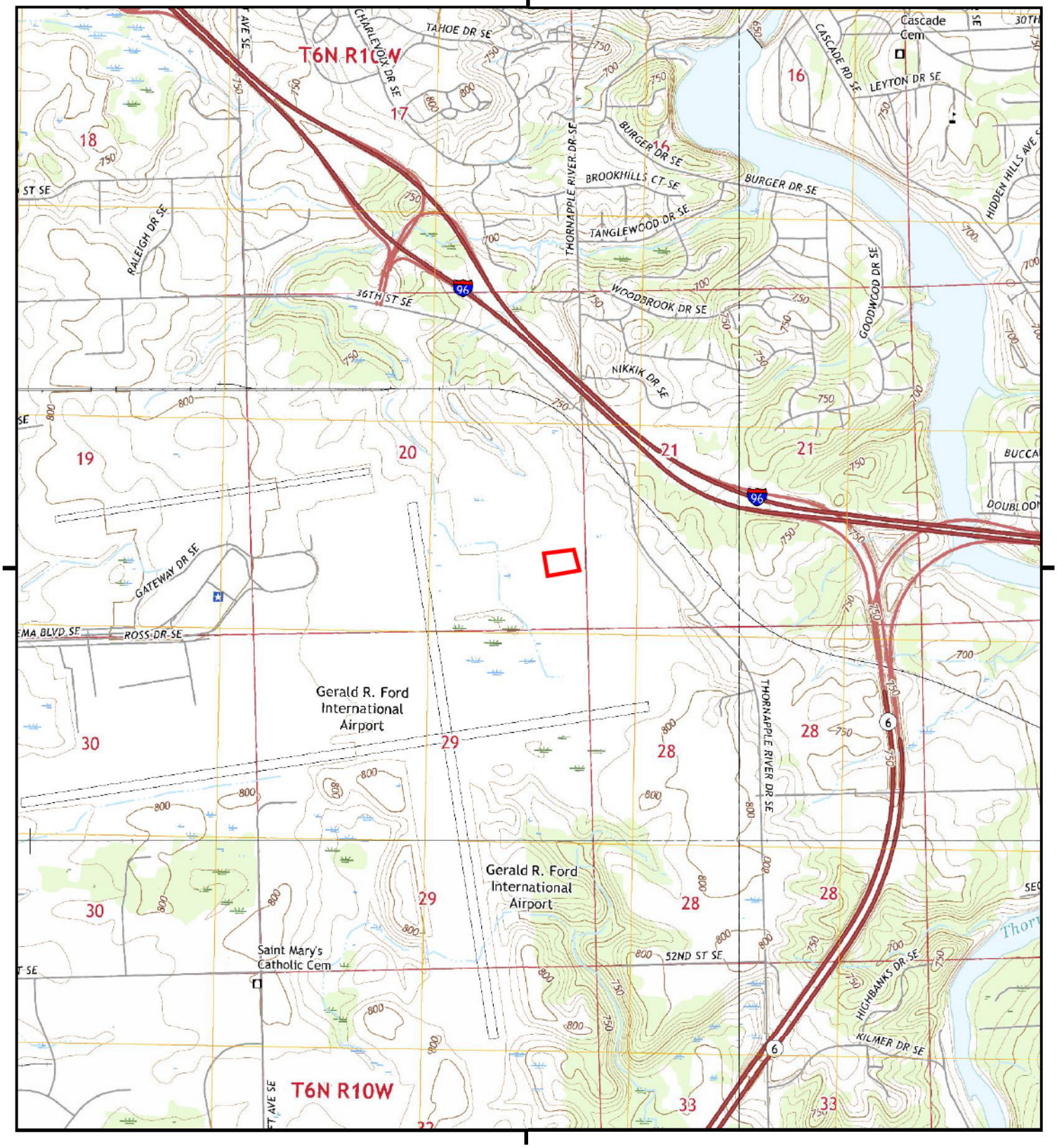
TP, Grand Rapids East, 2019, 7.5-minute
NE, Cascade, 2019, 7.5-minute
SE, Alto, 2019, 7.5-minute
SW, Caledonia, 2019, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

2017



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

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W E
SW S SE

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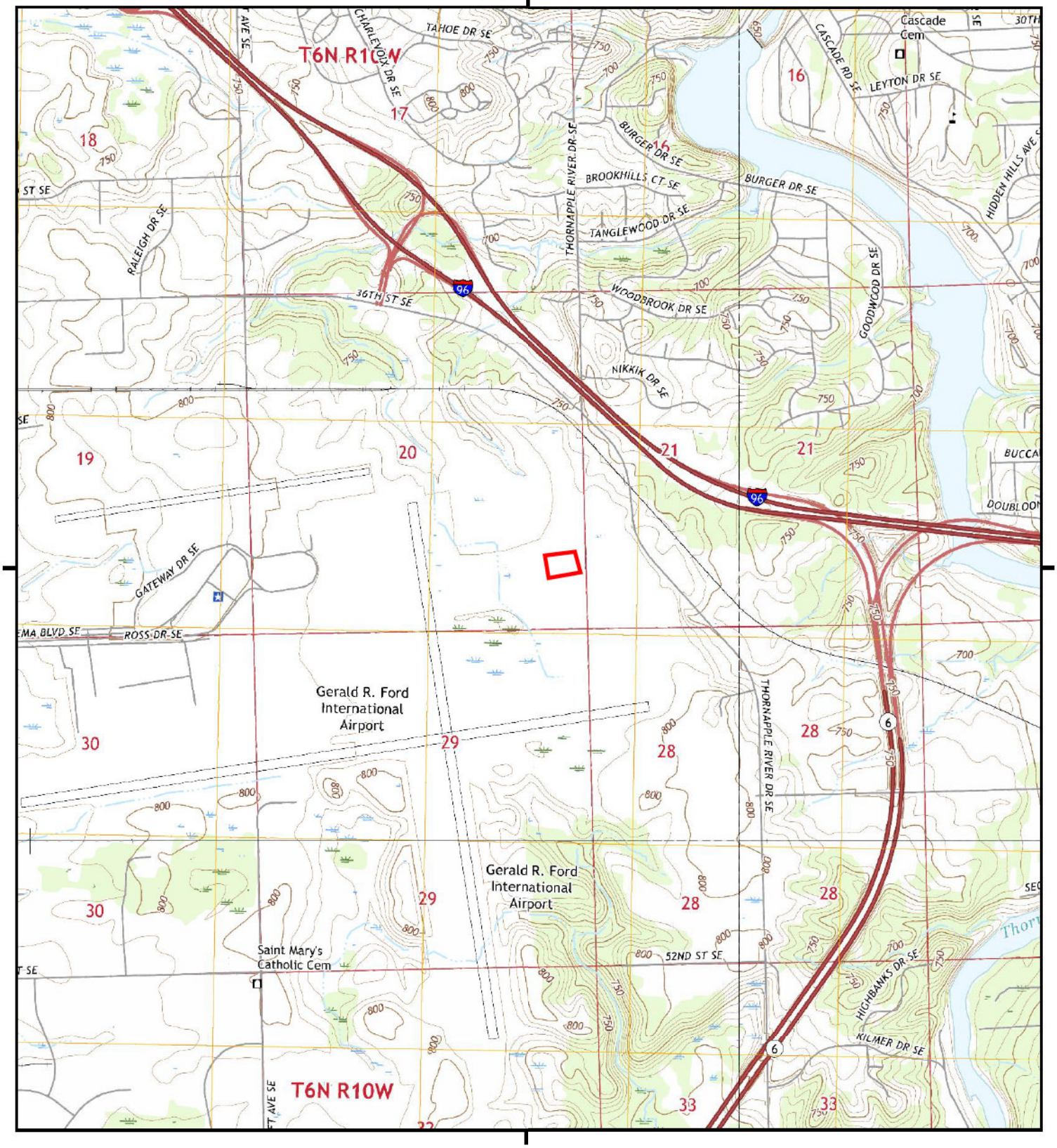
NE, Cascade, 2017, 7.5-minute
SE, Alto, 2017, 7.5-minute
SW, Caledonia, 2017, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

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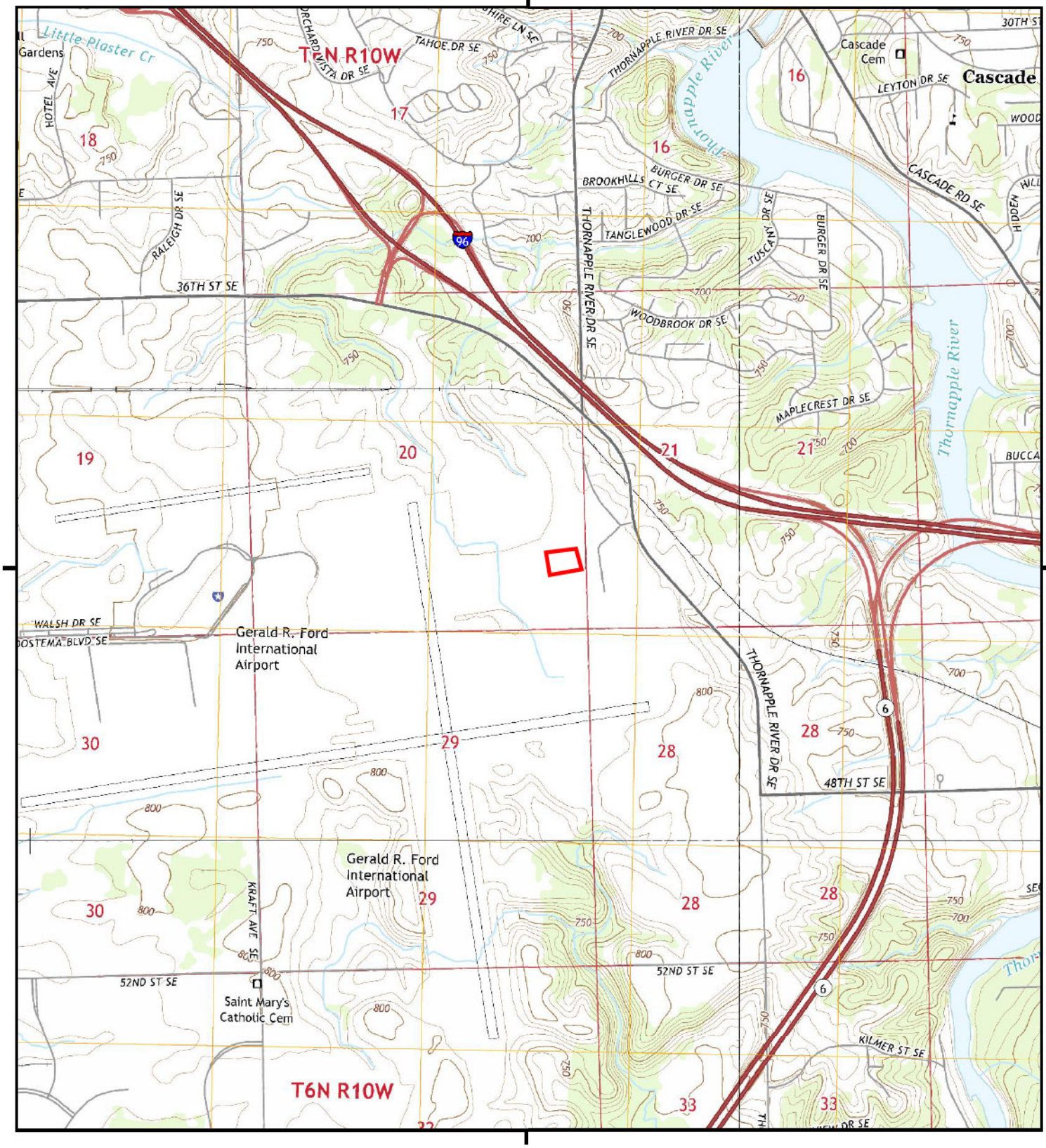
NE, Cascade, 2016, 7.5-minute
SE, Alto, 2016, 7.5-minute
SW, Caledonia, 2016, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

2014



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W E
SW S SE

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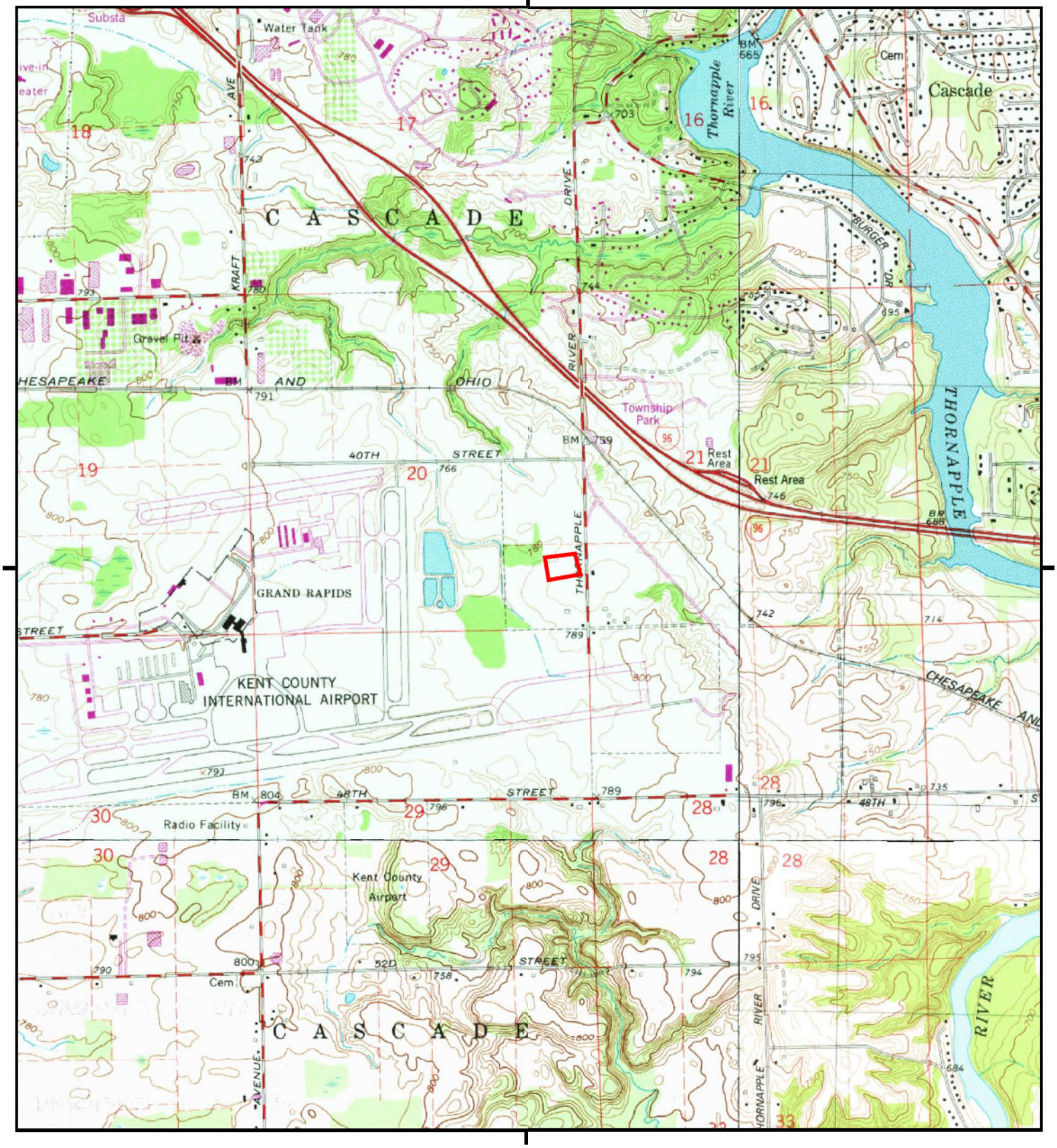
NE, Cascade, 2014, 7.5-minute
SE, Alto, 2014, 7.5-minute
SW, Caledonia, 2014, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

1978, 1981, 1982



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W E
SW S SE

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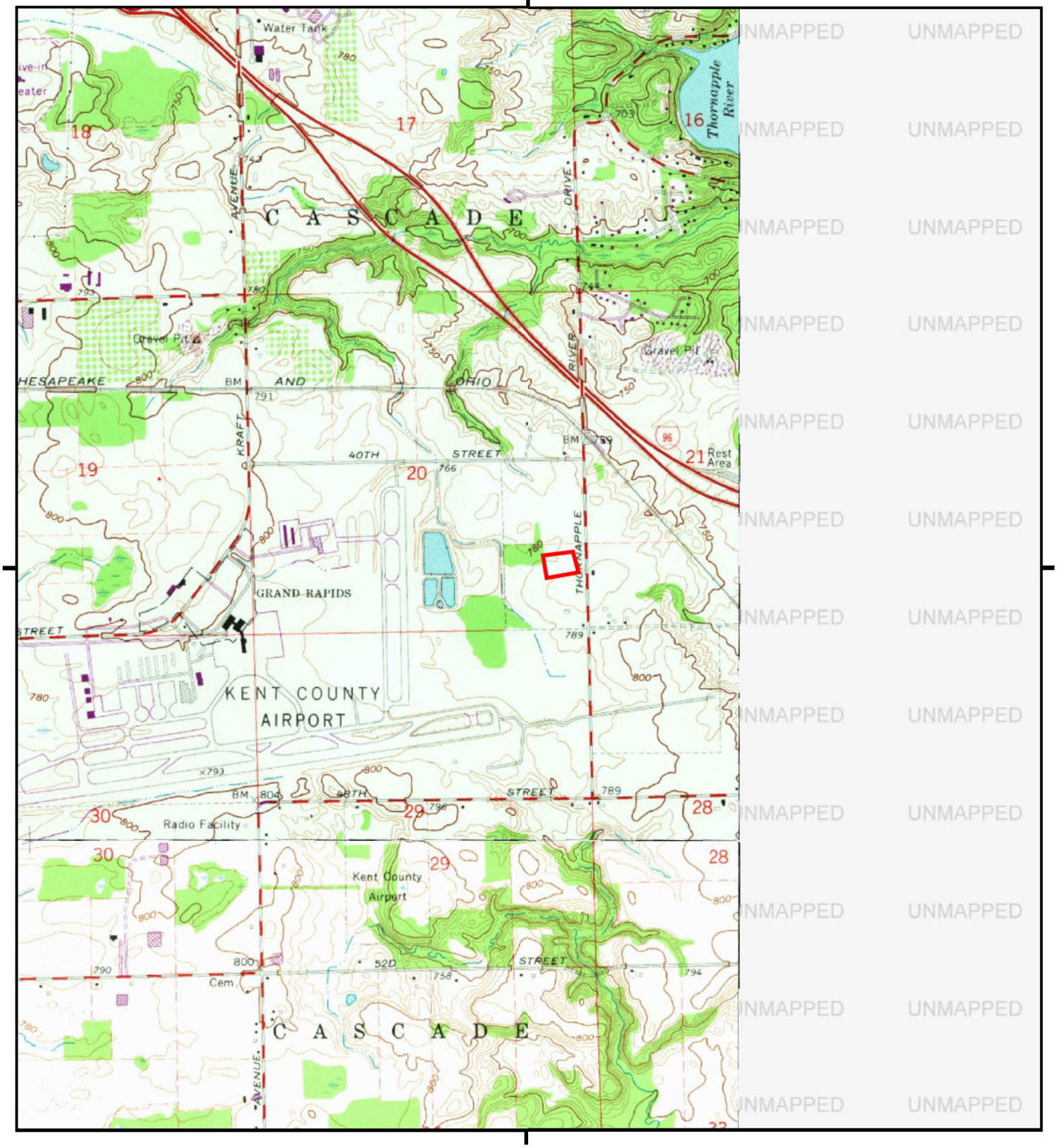
NE, Cascade, 1978, 7.5-minute
SE, Alto, 1978, 7.5-minute
SW, Caledonia, 1982, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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

0 Miles 0.25 0.5 1 1.5

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W E
SW S SE

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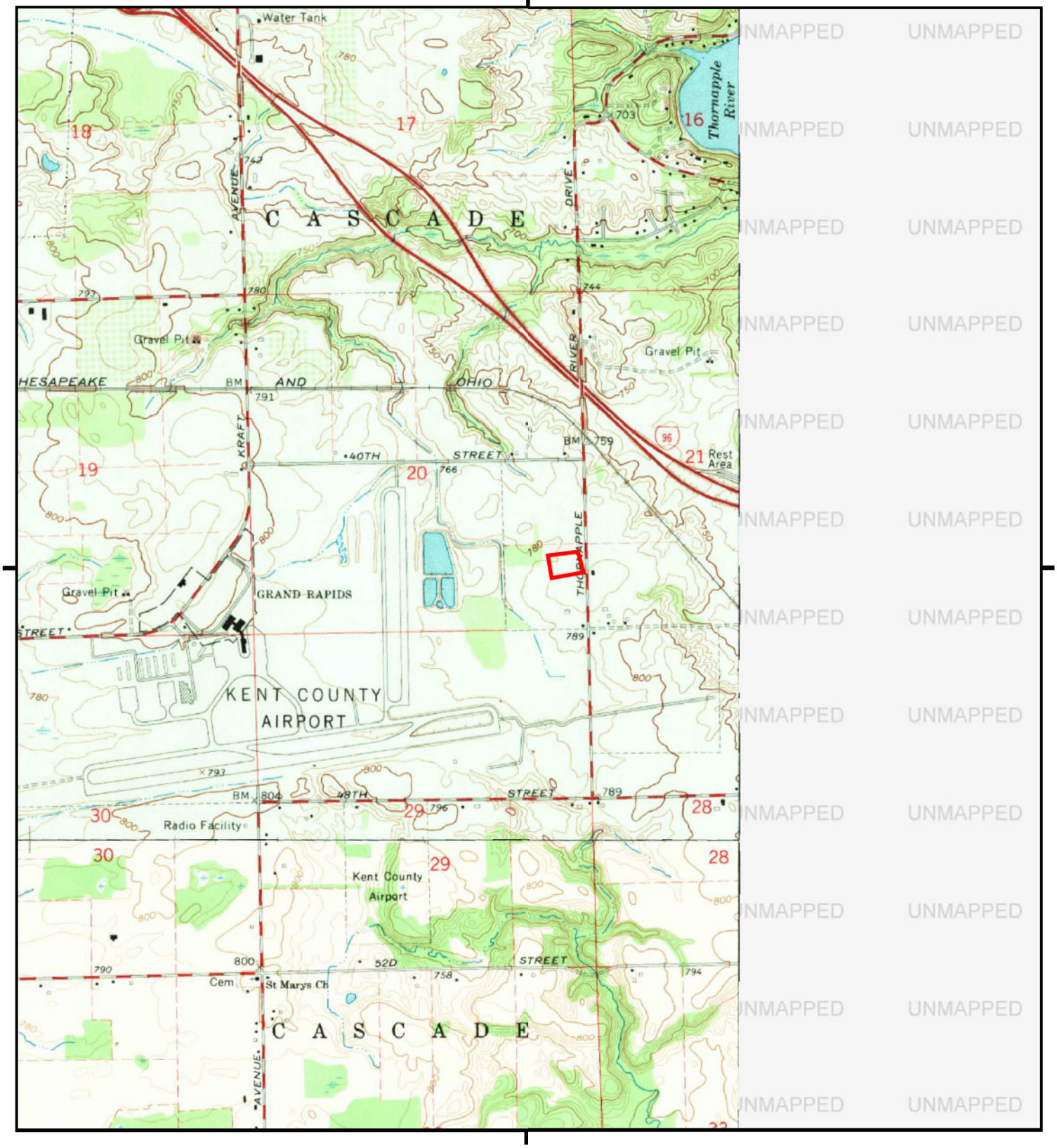
SW, Caledonia, 1972, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

Historical Topo Map

1967



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

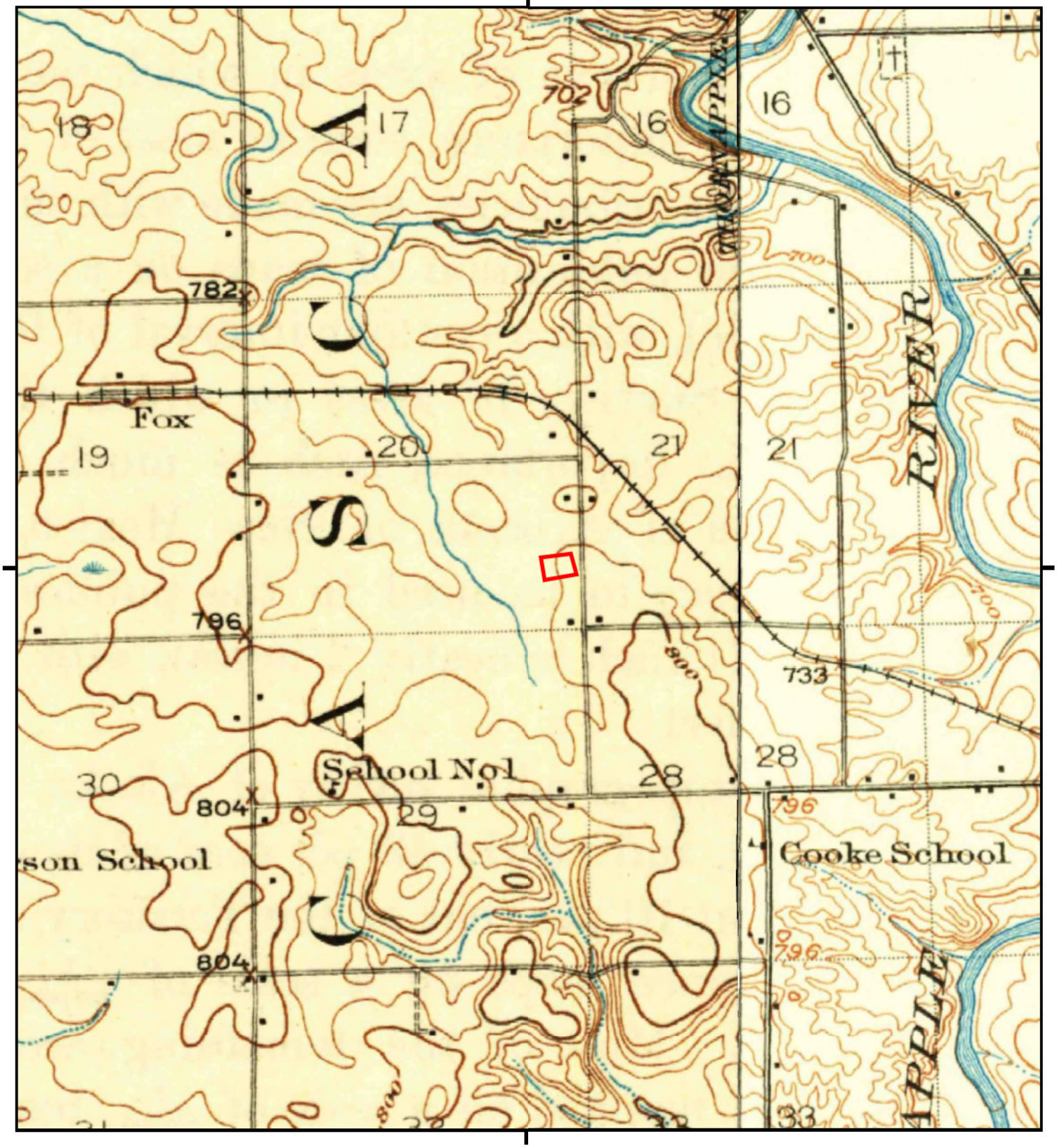
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Grand Rapids East, 1967, 7.5-minute
SW, Caledonia, 1967, 7.5-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N



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0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Grand Rapids, 1914, 15-minute
E, Lowell, 1918, 15-minute

SITE NAME: A1 and A28
ADDRESS: 5500 44th Street SE
Grand Rapids, MI 49512
CLIENT: BLDI Consultants

N

APPENDIX F

Interview Documentation

BLDI

Phase I Environmental Site Assessment

User Questionnaire for Phase I ESA Additional Inquiries

The User Questionnaire is to be completed by the User.

The ASTM Standard E1527-21 defines the User as *"the party seeking to use Practice E1527 to complete an environmental site assessment (ESA) of the subject property."* Examples of Users include, but are not limited to, a potential purchaser or tenant of a property, or a lender. Typically the current owner is not the User of the Phase I ESA.

Information Provided to: BLDI, Inc. Main Office | 150 Fountain Street NE | Grand Rapids, MI 49503

User - Please Complete this Portion (including contact information and appropriate reliance parties)

Date:	4/14/2022
User Name:	US DOT - Federal Aviation Administration
Full Address:	2300 East Devon Ave, Ste 450, Des Plaines, Illinois 60018
Contact:	Steven Myers
Phone:	847-294-7591
Subject Property Name:	Proposed GRR ATCT Site B58
Subject Property Address:	N/A
Reliance Parties:	N/A

As stated in ASTM E1527-21, Appendix X3:

"To qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001 (the "Brownfields Amendments"), the user must conduct the following inquiries required by 40 C.F.R. §§ 312.25, 312.28, 312.29, 312.30, and 312.31. These inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees. 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."

Please answer all questions to the best of your knowledge and in good faith. Mark the column corresponding to the appropriate response. Additional details necessary to explain any YES or UNKNOWN response must be provided in the "Comments" column. Add pages as necessary.

Note: U/NR indicates "Unknown" or "No Response", and "N/A" indicates not applicable.

---

1) Did a search of land title records (or judicial records where appropriate) identify any environmental liens filed or recorded against the subject property under federal, tribal, state, or local law?

- ☐ **Yes**
- ☐ **No**
- ☑ **U/NR**

Comments: The FAA has not performed a title search on this property as of this moment.

2) Did a search of land title records (or judicial records where appropriate) identify any AULs, 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 against the subject property under federal, tribal, state, or local law?

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments: The property has to be used for aviation purposes under the Airport Improvement Program Grant assurances.

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

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments:

4) Does the purchase price being paid for this subject property reasonably reflect the fair market value of the property? If you conclude that there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present at the subject property?

- ☐ **Yes**
- ☐ **No**
- ☑ **U/NR**

Comments: The FAA would receive the property under utilizing a $0 lease as per grant assurances.

5) Are you aware of commonly known or reasonably ascertainable information about the subject property that would help the environmental professional to identify conditions indicative of releases or threatened releases?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA has no knowledge of any past occurrences of chemical use or releases on the subject property.

5a) Do you know the past uses of the subject property?

- ☑ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments: The subject property has been utilized as agricultural land or as undeveloped airport property since the 1960's.

5b) Do you know of specific chemicals that are present or once were present at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA does not have reason to believe that chemicals were ever present or stored on the property.

5c) Do you know of spills or other chemical releases that have taken place at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA is unaware of any past or present chemical releases or spills that have occurred on the subject property.

5d) Do you know of any environmental cleanups that have taken place at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA is unaware of any environmental cleanups that have occurred on the subject property.

5e) Do you know the current use of the subject property?

- ☐ **Yes**
- ☐ **No**
- ☐ **U/NR**

Comments: The subject property is currently undeveloped airport property.

5f) Can you confirm that the address listed for the subject property on this User Questionnaire is the entire (and, as applicable, only) legal address for the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The specific property is not developed and does not currently have an address.

6) Based on your knowledge and experience related to the subject property, are there any obvious indicators that point to the presence or likely presence of releases at the subject property?

- ☐ **Yes**
- ☑ **No**
- ☐ **U/NR**

Comments: The FAA has no knowledge to indicate the presence or likely presence of release on the property.

Electronic Signature:

By typing your name in the Signature box below, you are signing this document electronically.
You agree your electronic signature is the legal equivalent of your manual signature on this document.

Signature:	Steven Myers
Print Name:	Steven Myers
Representing:	US DOT - FAA
Title:	Environmental Protection Specialist
Date:	4/14/2022

STATE OF MICHIGAN

DEPARTMENT OF NATURAL RESOURCES

WATER RESOURCES COMMISSION

In the matter of: Kent County Department of Aeronautics
5500 44th Street, S.E.
Grand Rapids, Michigan 49508

DETERMINATION OF PERMIT EXEMPTION

Determination No. GWE - 0298

IT IS THE EXPRESS FINDING OF FACT OF THE MICHIGAN WATER RESOURCES COMMISSION THAT:

1. Pursuant to rule 2206 (R 323.2206) of the Part 22 Rules of the General Rules of the Water Resources Commission: Groundwater Quality, discharges into the groundwaters of the state are regulated by permits issued in accordance with sections 5, 7(1), and 8(b) of the Michigan Water Resources Commission Act (1929 PA 245, as amended).

2. Rule 2209 (R 323.2209) of the Groundwater Quality Rules list activities which are exempt from permit, hydrogeological reporting, and groundwater monitoring requirements.

3. On August 8, 1990, Gerald A. Lovell submitted a request for a Commission determination that a facility located in Section 20 of Cascade Township, Kent County, does not require a discharge permit.

4. The request is for the land application of up to 3,414,000 gallons of diluted sludge from four sanitary sewage lagoons.

5. Pursuant to Rule 2209(2), "Other activities may be exempted from a permit on a case-by-case basis, if the criteria that the Commission deems necessary are met."

6. Gerald A. Lovell, an authorized representative of Kent County Department of Aeronautics, has certified, in writing, that the discharge meets the requirements of the rule.

7. Staff have reviewed this request and recommend that the Commission determine that Rule 2209(2) applies and the exemption granted because this is a one time discharge for the purpose of permanently closing a wastewater treatment system.

AFTER CONSIDERATION OF THIS MATTER, THE MICHIGAN WATER RESOURCES COMMISSION DETERMINES THAT:

1. The land application of up to 3,414,000 gallons of sludge, with a concentration of no greater than 8% to 10% solids to liquid applied at a rate no greater than 20 dry tons per acre that originates from the Kent County International Airport sewage lagoons located in Section 20 of Cascade Township, Kent County, which is described in the exemption request dated August 8, 1990, and supplemented August 16, 1990 and August 22, 1990, meets the requirements of Rule 2209(2).

2. The land application of sludge not diluted down to an 8% to 10% solids to liquid ratio, the land application of sludge in excess of 20 dry tons per acre, and the land application of diluted sludge in excess of 3,414,000 gallons are expressly prohibited.

3. The discharge of any other water or wastewater to the waters of the state without a discharge permit is expressly prohibited.

4. Wastewater effluent shall not be applied within 150 feet of property lines, 150 feet from surface waters, 150 feet from private drinking water wells and 800 feet from water wells used for drinking water.

5. Prior to discharge the applicant must receive approval of plans for land applying the diluted sludge from the Waste Characterization Unit of the Waste Management Division, Department of Natural Resources.

6. Vegetation approved by the Waste Management Division shall be maintained on the application sites during periods of discharge.

7. The applicant shall submit to the Waste Management Division information detailing any proposed change in this discharge which may have an impact upon this Determination of Permit Exemption at least 30 days prior to the proposed implementation of that change. Any such change in the discharge will require a new determination by the Commission.

8. Provided all the conditions set forth herein are met, no discharge permit under Act 245, P.A. 1929, as amended, is required for this discharge.

9. Authorization to discharge pursuant to this exemption shall expire October 1, 1991.

The Commission retains jurisdiction to modify this action or to enter any further actions as the facts and circumstances may warrant.

THIS DETERMINATION ADOPTED this 18th day of October 1990, by the Water Resources Commission, to be signed on behalf of the Commission by the Assistant Executive Secretary.

Alan J. Howard
Assistant Executive Secretary
Water Resources Commission

Rich S. ✓
Dick M. ✓

NATURAL RESOURCES COMMISSION
THOMAS J. ANDERSON
MARLENE J. FLUHARTY
GORDON E. GUYER
KERRY KAMMER
ELLWOOD A. MATTSON
O. STEWART MYERS
RAYMOND POUPORE

STATE OF MICHIGAN

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

STEVENS T. MASON BUILDING
P.O. BOX 30028
LANSING, MI 48909

DAVID F. HALES, Director

November 9, 1990

Mr. Gerald A. Lovell
Kent County Department of Aeronautics
5500 44th Street, S.E.
Grand Rapids, Michigan 49508

Dear Mr. Lovell:

Enclosed is Determination of Permit Exemption, GWE - 0298, issued by the Michigan Water Resources Commission at its October 18, 1990 meeting. The Determination provides for the land application by Kent County Department of Aeronautics of up to 3,414,000 gallons of diluted sludge from four sanitary sewage lagoons.

Please review carefully the conditions of the Determination. In particular, please notice that any change in the discharge will require a new Determination by the Commission.

Questions concerning this Determination can be directed to the Groundwater Section, Waste Management Division (telephone 517-373-8148), or the Waste Management Division Grand Rapids District Office, (telephone 616-456-5071).

Sincerely,

Alan J. Howard
Assistant Executive Secretary
Water Resources Commission

Enclosure

cc: Kent County Health Department
Cascade Township Supervisor
Grand Rapids District Office

R1026
3/89

Appendix C – Early Agency Coordination

Agency Contact List

Federal & State Coordination - Master List

Salutation line	Contact Name	Title	Organization	Address	City, State, Zip	Phone or Email
Mr. Schumaker	Ryan Schumaker	State Historic Preservation Officer	State Historic Preservation Office	300 North Washington Square	Lansing, Michigan 48933	grennellb@michigan.gc
Mr. Duffiney	Tony Duffiney	State Director	USDA - APHIS Wildlife Services	2803 Jolly Rd., Suite 100,	Okemos, MI 48864	517-336-1928
Mr. Watling	Jim Watling	Supervisor	EGLE, Water Resources Division, Transportation Review Unit	P.O. Box 30458	Lansing, MI 48909-7958	517-599-9002
Mr. Simon	Charlie Simon	Chief	U.S. Army Corps of Engineers, Detroit District, Regulatory & Permits	477 Michigan Avenue, Room 603	Detroit, MI 48226-2550	313-226-2218
Mr. Civak	Thomas Civak	Regional Administrator	Federal Emergency Management Agency, Region 5	536 South Clark Street, 6th Floor	Chicago, Illinois 60605	312-408-5500
Ms. Gagliardo	Jean Gagliardo	District Conservationist	USDA, Natural Resource Conservation Service, Portage Service Center	5950 Portage Road	Portage, MI 49002	269-382-5121 ext 3
Mr. Hicks	Scott Hicks	Field Office Supervisor	US Fish and Wildlife - Michigan Field Office	2651 Coolidge Road, Suite 101	East Lansing, Michigan 48823	517-351-6274
Mr. Westlake	Kenneth Westlake	Chief	EPA Region 5 , NEPA Implementation Section	77 West Jackson Boulevard	Chicago, Illinois 60604	
Ms. Lott	Shannon Lott	Natural Resources Deputy	Michigan Department of Natural Resources, Executive Division	P.O. Box 30028	Lansing, MI 48909	517-243-3166/517-284-5810

Local & Political Coordination - Master List

Mr. Washington	Mark Washingotn	City Manager	Office of the City Manager, City of Grand Rapids	300 Monroe Ave. NW, 6th Floor	Grand Rapids, MI 49503	(616) 456-3165
Ms. Bohatch	Connie Bohatch	Community Development Director	Community Development Department, City of Grand Rapids	300 Monroe Ave. NW, Suite 460	Grand Rapids, MI 49503	(616) 456-3677
Ms. Turkelson	Kristin Turkelson	Planning Director	Planning Department, City of Grand Rapids	1120 Monroe Abe. NW, 3rd Floor	Grand Rapids, MI 49503	(616) 456-4100
Mr. Schweitzer	Terry Schweitzer	Community Development Director	Planning Department, City of Kentwood	PO Box 8848	Kentwood, MI 49518	(616) 554-0710
Ms. Golder	Lisa Golder	Economic Development Department Contact	Economic Development Office, City of Kentwood	PO Box 8848	Kentwood, MI 49518	(616) 554-0709
Ms. Mapes	Mary Mapes	President	Planning Comission, City of East Grand Rapids	750 Lakeside Dr SE	East Grand Rapids, MI 49506	(616) 784-2007
Mr. Davis	George Davis	President	Zoning Board of Appeals, City of East Grand Rapids	750 Lakeside Dr SE	East Grand Rapids, MI 49506	(616) 784-2007
Ms. Hendrick	Andrea Hendrick	Community Planning & Development Director	Plannnig Department, Cascade Township	5920 Tahoe Dr. SE	Grand Rapids, MI 49546-7123	(616) 949-0224
Ms. Smith-Jacoby	Madison Smith-Jacoby	Zoning Administrator	Plannnig Department, Cascade Township	5920 Tahoe Dr. SE	Grand Rapids, MI 49546-7123	(616) 949-0224
Ms. Lesperance	Grace Lesperance	Supervisor	Cascade Township	5920 Tahoe Dr. SE	Grand Rapids, MI 49546-7123	(616) 949-1501
Mr. Bujak	Walter Bujak	Comissioner	District 21 Comissioner, Kent County	300 Monroe Ave NW	Grand Rapids, MI 49503	(616) 632-7157
Ms. Posthumus Lyons	Lisa Posthumus Lyons	County Clerk/Register	County Clerk, Kent County	300 Monroe Ave NW	Grand Rapids, MI 49503-2288	(616) 632-7640

Native American Coordination - Master List

Salutation line	Contact Name	Title	Organization	Address	City, State, Zip	Phone
Chairperson	James Williams	Chairman	Lac Vieux Desert Band of Lake Superior Chippewa of Michigan	East 23968 Pow Wow Trail	Watersmeet, MI 49969	(906) 358-4577
Chairperson	Larry Romanelli	Ogema	Little River Band of Ottawa Indians	2608 Government Center Drive	Manistee, MI 49660	(231) 723-3270
Chairperson	Regina Gasco-Bentley	Chairperson	Little Traverse Bay Bands of Odawa Indians	7500 Odawa Circle	Harbor Springs, MI 49740-9692	(231) 242-1411
Chairperson	Gena Kakkak	Chairwoman	Menominee Indian Tribe of Wisconsin	W2908 Tribal Office Loop	Keshena, WI 54135	(715) 799-5100
Chairperson	Douglas Lankford	Chief	Miami Tribe of Oklahoma	3410 P St.	Miami, OK 74354	(918) 541-1300
Chairperson	Ethel Cook	Chief	Ottawa Tribe of Oklahoma	13 South Highway 69a	Miami, OK 74354	(918) 540-1536
Chairperson	Darrell Seki	Chairperson	Red Lake Band of Chippewa Indians, Minnesota	Hwy 1 East, 2400 Council Street	Red Lake, MN 56671	(218) 679-3341
Chairperson	Aaron Payment	Chairperson	Sault-Ste. Marie Tribe of Chippewa Indians of Michigan	523 Ashman Street	Sault Ste. Marie, MI 49783	(906) 635-4969

Sample Early Coordination Letter

April 29, 2024

«Contact_Name»
«Title»
«Organization»
«Address»
«City_State_Zip»

Re: Early Coordination Review of Air Traffic Control Tower Relocation
Gerald R. Ford International Airport, Grand Rapids, Michigan

Dear «Salutation_line»:

The Federal Aviation Administration (FAA) is exploring the potential impacts of relocating the existing Air Traffic Control Tower (ATCT) to a new location at the Gerald R. Ford International Airport (Airport or GRR).

To proceed with the proposed action, an Environmental Assessment (EA) is necessary to define and analyze potential impacts of the proposed action and evaluate any reasonable alternatives. This EA will also be developed to further determine whether any potential impacts are significant enough to necessitate an Environmental Impact Statement (EIS). During the EA project, investigations will be conducted to identify potential social, economic, and environmental (SEE) impacts related to the improvements being proposed. Any potential SEE impacts will be documented and considered as required by the National Environmental Policy Act (NEPA).

The FAA is the lead federal agency and as such, the EA will be prepared in accordance with NEPA, FAA Order 1050.1F, *Environmental Impacts: Policies and Procedures,* and FAA Order 5050.4B. *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*.

It should be noted that the FAA does not necessarily endorse the proposed project, nor have they agreed to a Preferred Alternative. The FAA will evaluate the Purpose and Need, any prudent and feasible alternatives including the No-Build Alternative, and to identify associated impacts in order to select a Preferred Alternative. A summary of the proposed action includes:

- Construction of a new ATCT
- Potential removal of the existing ATCT

As part of our early agency coordination, we are attempting to identify key issues that will need to be addressed during the NEPA process. To accomplish this, your organization's comments are being requested for the above referenced project as it relates to the following:

- Your specific areas of concern / regulatory jurisdiction
- Specific benefits of the project for your organization or to the public
- Any available technical information / data for the project site
- Potential mitigation / permitting requirements for project implementation

For your convenience, several maps and figures are enclosed that illustrate the Airport's location and approximate project area limits. To sufficiently address key project issues and maintain the project schedule, your comments are requested by **May 31, 2024.**

Please send your written or email comments to:

MEAD & HUNT, Inc.
William Ballard, AICP
2605 Port Lansing Road
Lansing, MI 48906
517-321-8334 | william.ballard@meadhunt.com

Sincerely,

William Ballard, AICP
Project Manager
Mead & Hunt, Inc.

On behalf of the Federal Aviation Administration

Enclosures

Cc: Michelle Baker, Airport Environmental Manager
Alec Martino, FAA

Sample Early Tribal Coordination Letter

April 24, 2024

«Contact_Name»
«Title»
«Organization»
«Address»
«City_State_Zip»

Re: Early Coordination Review of Air Traffic Control Tower Relocation
Gerald R. Ford International Airport, Grand Rapids, Michigan

Dear Chairperson:

On behalf of the Federal Aviation Administration (FAA), this letter serves to inform you of a project planned for the Gerald R. Ford International Airport (Airport), located in Grand Rapids, Michigan.

The FAA is exploring the potential impacts of relocating the Air Traffic Control Tower (ATCT) at the Airport.

A summary of the proposed action includes:

- Construction of a new ATCT
- Potential removal of the existing ATCT

For your convenience, several maps and figures are enclosed that illustrate the Airport's location and approximate project area limits.

The FAA would be pleased to receive your comments regarding this project, information you wish to share pertaining to archaeological or historical resources located in the project area, or notification that you would like to become an interested party under Section 106 of the National Historic Preservation Act. In order to sufficiently address key project issues and maintain the project schedule, your comments are requested by **May 31, 2024**.

Please send your written or email comments to:

Mr. Alec Martino
Federal Aviation Administration
2300 East Devon Ave.
Des Plaines, IL 60018
847-294-8037 / alec.martino@faa.gov

Sincerely,

Alec Martino
Environmental Engineer

Enclosures

cc:

Michelle Baker, Airport Environmental Manager
William Ballard, Mead & Hunt

Airport Location Map

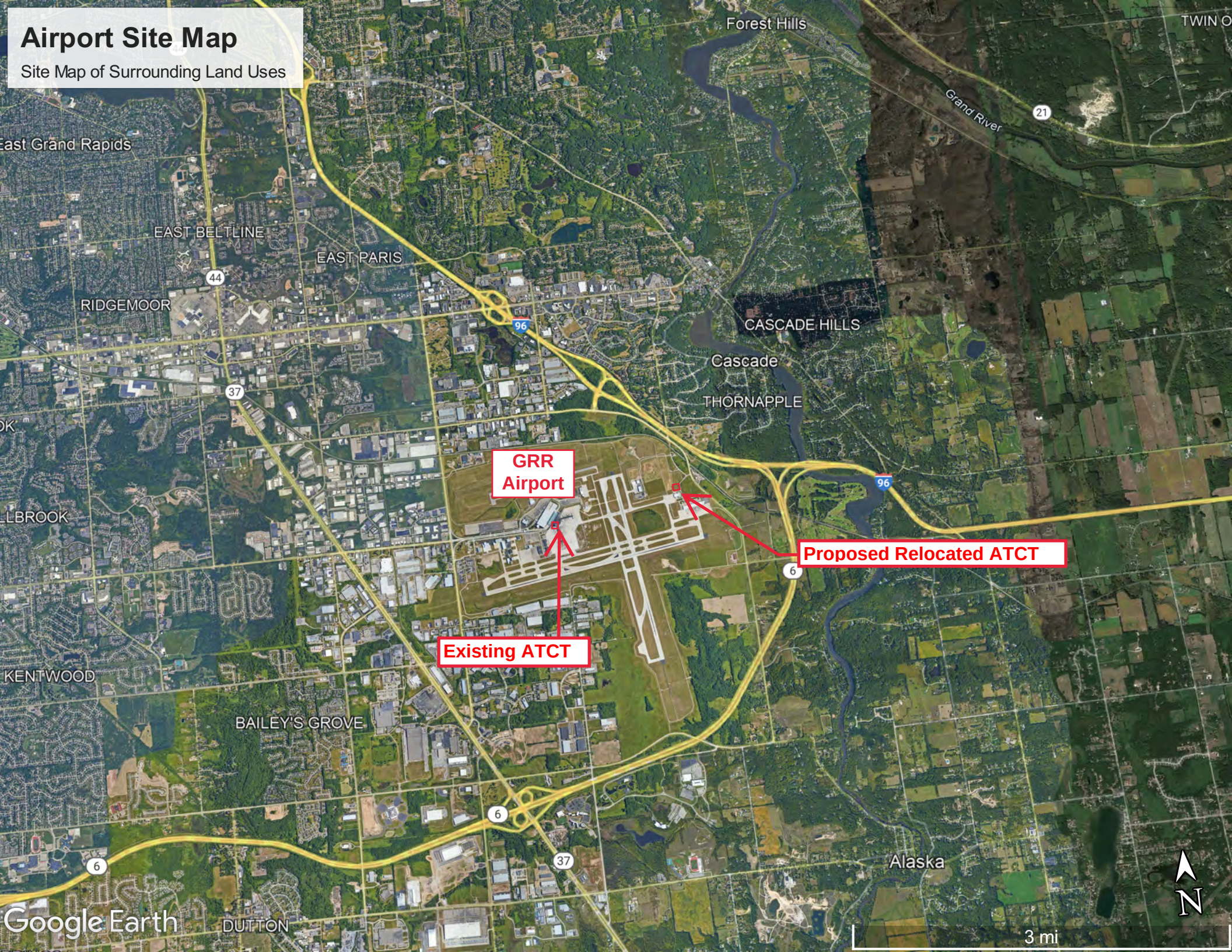
Gerald R. Ford International Airport
Grand Rapids, MI

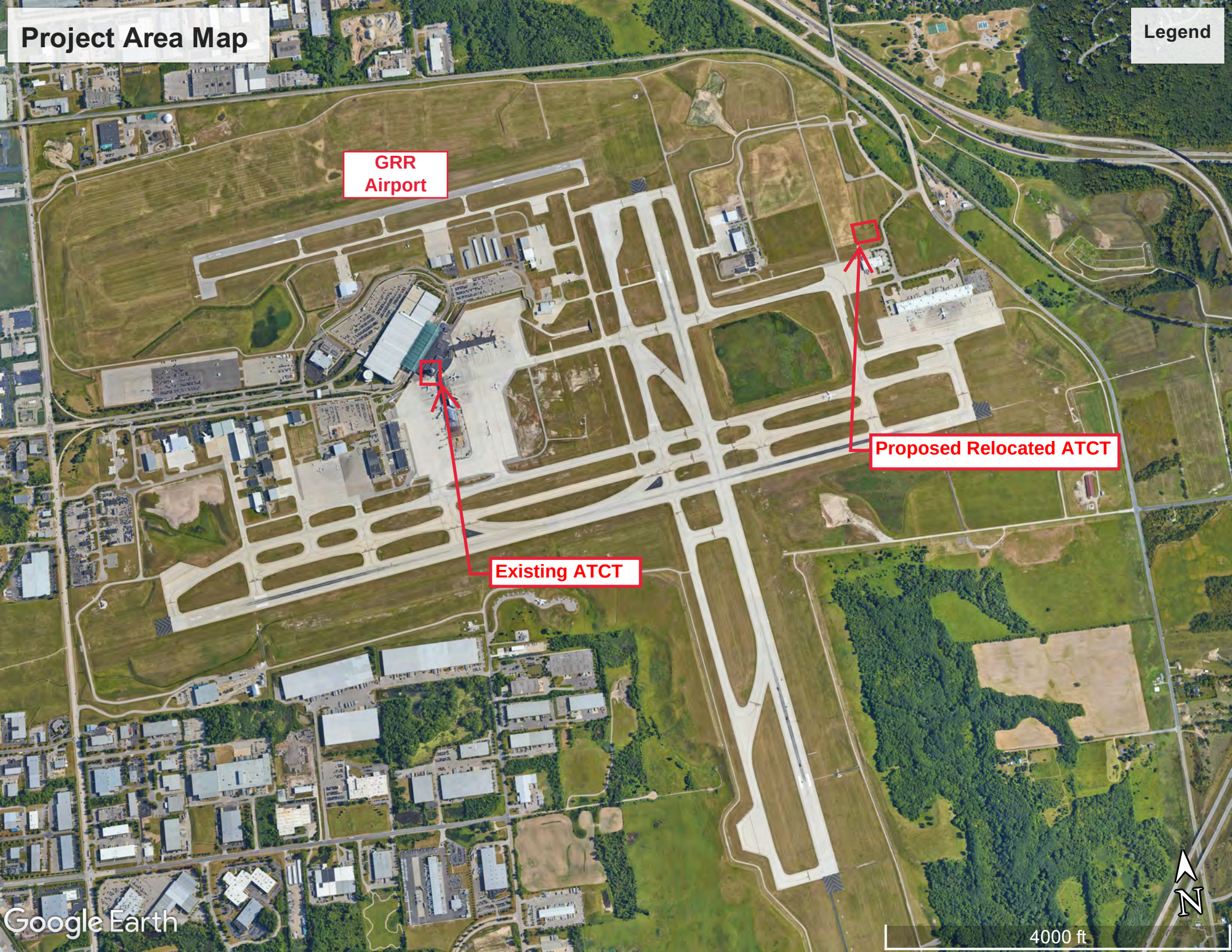
1:2,311,162

0 12.5 25 50 mi

0 20 40 80 km

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS


Airport Site Map
Site Map of Surrounding Land Uses
Forest Hills
East Grand Rapids
EAST BELTLINE
EAST PARIS
RIDGEMOOR
CASCADE HILLS
Cascade
THORNAPPLE
GRR Airport
Proposed Relocated ATCT
Existing ATCT
KENTWOOD
BAILEY'S GROVE
Alaska
DUTTON
Grand River
Google Earth
3 mi
N


Project Area Map
Legend
GRR Airport
Proposed Relocated ATCT
Existing ATCT
Google Earth
N
4000 ft

Agency Responses

From: Courtney Beard
To: Courtney Beard
Subject: FW: Project: GRR ATCT Relocate-EA - File Transfer - GRR EGLE Wetland Mtg
Date: Wednesday, February 12, 2025 11:37:29 AM

Courtney Beard

Direct: 517-908-3146 | Transfer Files

meadhunt.com | Experience Exceptional

From: Johnson, Ben (EGLE) <JohnsonB67@michigan.gov>
Sent: Tuesday, February 11, 2025 4:24 PM
To: Cole Kiernan <Cole.Kiernan@meadhunt.com>
Cc: Brauna Hartzell <brauna.hartzell@meadhunt.com>; William Ballard <william.ballard@meadhunt.com>; Courtney Beard <Courtney.Beard@meadhunt.com>
Subject: RE: Project: GRR ATCT Relocate-EA - File Transfer - GRR EGLE Wetland Mtg

> Some people who received this message don't often get email from johnsonb67@michigan.gov. Learn why this is important

Hi Cole,

Thank you for the photo log and the aerials. I was able to look over some additional historical aerials and did some further review. Based on what was provided and what I found, I did not see any evidence that there were historical wetlands in the project area. In addition, there is nothing to suggest that any regulated wetlands are in the project area either. The drainage ditch along the fence line appears to be manmade and would be exempt under Part 303. This project, as it is proposed, would not require a permit from our office.

Let me know if there are any other questions or concerns,

Ben Johnson
Water Resources Division – Transportation Review Unit
Michigan Department of Environment, Great Lakes, and Energy
Cell: 616-295-2787
Email: johnsonb67@michigan.gov
http://mi.gov/egletransportationreview

From:	William Ballard
To:	Courtney Beard
Subject:	FW: Early Coordination Review of Air Traffic Control Tower Relocation correspondence for Gerald R. Ford International Airport
Date:	Monday, June 3, 2024 9:45:16 AM
Attachments:	MeadHuntlogo_87950253-989c-49b2-a74f-a156c21c38dd.png Early Coordination Review of Air Traffic Control Tower Relocation correspondence for Gerald R. Ford International Airport.pdf

FYI.

Bill Ballard, **AICP**

Project Manager | Aviation

Direct: 517-908-3105 | Cell: 989-640-1060 | Transfer Files

LinkedIn | Facebook | Instagram

From: Wood, Kimberly (EGLE) <WOODK2@michigan.gov>
Sent: Friday, May 31, 2024 3:48 PM
To: William Ballard <william.ballard@meadhunt.com>
Subject: Early Coordination Review of Air Traffic Control Tower Relocation correspondence for Gerald R. Ford International Airport

You don't often get email from woodk2@michigan.gov. Learn why this is important

Correcting email address

From: Wood, Kimberly (EGLE)
Sent: Friday, May 31, 2024 3:47 PM
To: william.ballard@meadhunt.com.
Cc: Johnson, Ben (EGLE) <JohnsonB67@michigan.gov>; Watling, James (EGLE) <WATLINGJ@michigan.gov>
Subject: Early Coordination Review of Air Traffic Control Tower Relocation correspondence for Gerald R. Ford International Airport

Please see attached Early Coordination Review of Air Traffic Control Tower Relocation correspondence for Gerald R. Ford International Airport. **If you have any questions, please contact Benjamin Johnson at 616-295-2787 or JohnsonB67@Michigan.gov**

STATE OF MICHIGAN
DEPARTMENT OF
ENVIRONMENT, GREAT LAKES, AND ENERGY
LANSING

GRETCHEN WHITMER
GOVERNOR

PHILLIP D. ROOS
DIRECTOR

May 31, 2024

VIA EMAIL

William Ballard, AICP
Mead & Hunt, Inc.
2605 Port Lansing Road
Lansing, Michigan 48906

Dear William Ballard:

SUBJECT: Early Coordination Review of Air Traffic Control Tower Relocation
Gerald R. Ford International Airport
Kent County, T06N R10W Section 20
Michigan Department of Environment, Great Lakes, and Energy (EGLE)
Water Resources Division (WRD)

Thank you for your April 29, 2024, early coordination letter regarding the development of an Environmental Assessment (EA) for the proposed relocation of the air traffic control tower (ATCT) at Gerald R. Ford International Airport. The EA will evaluate potential impacts of the proposed infrastructure listed in the early coordination letter.

The WRD has the following comments:

a) Available wetland inventories indicate the presence of hydric soils and mapped wetlands in the proposed ATCT relocation site. Any impacts to regulated wetlands will require a permit under Part 303, Wetlands Protection, of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). All potential wetlands within the project area should be delineated by a professional wetland consultant, and then submitted to Transportation Review Unit for verification. Our recommendation is to submit a Voluntary Transportation Preliminary Review request in MiEnviro for a site inspection to provide site-specific recommendations and verification of wetland delineations prior to applying for a permit. Wetland mitigation will likely be required for any unavoidable impacts as a result of this project.

b) The proposed relocation site does not intersect with any mapped streams or floodplains and would NOT require a permit under Part 301, Inland Lakes and Streams, or Part 31, Water Resources Protection, of the NREPA, if confirmed with a field inspection.

c) A review of our database shows an occurrence of the state threatened plant species, Virginia Bluebells (*Mertensia virginica*), within the project location. You should consult with the Michigan Department of Natural Resources prior to preforming work or applying for permits.

Thank you for the opportunity to comment on this EA. If you have any questions regarding this letter, please contact me at 616-295-2787 or at Johnsonb67@Michigan.gov.

Sincerely,

Benjamin Johnson
EGLE – WRD
Transportation Review Unit

cc: James Watling, EGLE

From:	William Ballard
To:	Courtney Beard
Subject:	FW: MDNR Comments: Air Traffic Control Tower Relocation -- Geral R. Ford Airport, Grand Rapids
Date:	Thursday, May 23, 2024 3:29:28 PM
Attachments:	image002.png MeadHuntlogo_87950253-989c-49b2-a74f-a156c21c38dd.png Early Coordination Review of Air Traffic Control Tower Relocation - Gerald R. Ford Airport, Grand Rapids.pdf

fyi

Bill Ballard, **AICP**

Project Manager | Aviation

Direct: 517-908-3105 | Cell: 989-640-1060 | Transfer Files

LinkedIn | Facebook | Instagram

From: Sadler, Taunia (DNR) <SadlerT@michigan.gov>
Sent: Thursday, May 23, 2024 3:28 PM
To: William Ballard <william.ballard@meadhunt.com>
Cc: Sadler, Taunia (DNR) <SadlerT@michigan.gov>; Hiller, Lindsay (DNR) <HillerL1@michigan.gov>; Mills, Mark (DNR) <MILLSM@michigan.gov>; Kalejs, Guntis (DNR) <KALEJSG@michigan.gov>
Subject: MDNR Comments: Air Traffic Control Tower Relocation -- Geral R. Ford Airport, Grand Rapids

Dear Mr. Ballard,

Please see below response from MDNR Wildlife Biologist Nik Kalejs regarding the Air Traffic Control Relocation project at Gerald R. Ford Airport.

Thank you,
Taunia

Taunia Sadler
Executive Assistant to Deputy Directors Shannon Lott and Kristin Phillips
Michigan Department of Natural Resources
517-930-4989

From: Kalejs, Guntis (DNR) <KALEJSG@michigan.gov>
Sent: Thursday, May 23, 2024 3:15 PM
To: Lott, Shannon (DNR) <LottS1@michigan.gov>; Mills, Mark (DNR) <MILLSM@michigan.gov>
Cc: Sadler, Taunia (DNR) <SadlerT@michigan.gov>; Hiller, Lindsay (DNR) <HillerL1@michigan.gov>
Subject: Early Review of Air Traffic Control Tower Relocation -- Geral R. Ford Airport, Grand Rapids

Based on the maps provided by Mead & Hunt, Inc., I reviewed the site of the proposed control tower relocation on 05/23/24. The area is primarily open field type with a mixture of grasses, some legumes (red clover), common forbs, and weeds (dandelion). Various access roads and buildings associated with airport operations are adjacent to the proposed site. Due to the high degree of development, there are no wildlife or habitat concerns. While I am not aware of the specific benefits of the project, there do not seem to be any overriding permit issues or limitations that would affect the proposed tower relocation project.

Nik Kalejs, Biologist
Muskegon SGA
231-788-5055

Appendix D – Biological Resources

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Michigan Ecological Services Field Office
2651 Coolidge Road Suite 101
East Lansing, MI 48823-6360
Phone: (517) 351-2555 Fax: (517) 351-1443

In Reply Refer To: 08/08/2024 14:28:43 UTC
Project Code: 2024-0127659
Project Name: Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

Official Species List
The attached species list identifies any Federally threatened, endangered, proposed and candidate species that may occur within the boundary of your proposed project or may be affected by your proposed project. The list also includes designated critical habitat if present within your proposed project area or affected by your project. This list is provided to you as the initial step of the consultation process required under section 7(c) of the Endangered Species Act, also referred to as Section 7 Consultation.

Under 50 CFR 402.12(e) (the regulations that implement section 7 of the Endangered Species Act), the accuracy of this species list should be verified after 90 days. You may verify the list by visiting the IPaC website (https://ipac.ecosphere.fws.gov/) at regular intervals during project planning and implementation. To update an Official Species List in IPaC: from the My Projects page, find the project, expand the row, and click Project Home. In the What's Next box on the Project Home page, there is a Request Updated List button to update your species list. Be sure to select an "official" species list for all projects.

Consultation requirements and next steps
Section 7 of the Endangered Species Act of 1973 requires that actions authorized, funded, or carried out by Federal agencies not jeopardize Federally threatened or endangered species or adversely modify designated critical habitat. To fulfill this mandate, Federal agencies (or their designated non-Federal representative) must consult with the Fish and Wildlife Service if they determine their project may affect listed species or critical habitat.

There are two approaches to evaluating the effects of a project on listed species.

Approach 1. Use the All-species Michigan determination key in IPaC. This tool can assist you in

making determinations for listed species for some projects. In many cases, the determination key will provide an automated concurrence that completes all or significant parts of the consultation process. Therefore, we strongly recommend screening your project with the **All-Species Michigan Determination Key (Dkey)**. For additional information on using IPaC and available Determination Keys, visit https://www.fws.gov/media/mifo-ipac-instructions (and click on the attachment). Please carefully review your Dkey output letter to determine whether additional steps are needed to complete the consultation process.

Approach 2. Evaluate the effects to listed species on your own without utilizing a determination key. Once you obtain your official species list, you are not required to continue in IPaC, although in most cases using a determination key should expedite your review. If the project is a Federal action, you should review our section 7 step-by-step instructions before making your determinations: https://www.fws.gov/office/midwest-region-headquarters/midwest-section-7-technical-assistance. If you evaluate the details of your project and conclude "no effect," document your findings, and your listed species review is complete; you do not need our concurrence on "no effect" determinations. If you cannot conclude "no effect," you should coordinate/consult with the Michigan Ecological Services Field Office. The preferred method for submitting your project description and effects determination (if concurrence is needed) is electronically to EastLansing@fws.gov. Please include a copy of this official species list with your request.

For all **wind energy projects**, please contact this field office directly for assistance, even if no Federally listed plants, animals or critical habitat are present within your proposed project area or may be affected by your proposed project.

Migratory Birds
Please see the "Migratory Birds" section below for important information regarding incorporating migratory birds into your project planning. Our Migratory Bird Program has developed recommendations, best practices, and other tools to help project proponents voluntarily reduce impacts to birds and their habitats. The Bald and Golden Eagle Protection Act prohibits the take and disturbance of eagles without a permit. If your project is near an eagle nest or winter roost area, see our Eagle Permits website at https://www.fws.gov/program/eagle-management to help you avoid impacting eagles or determine if a permit may be necessary.

Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/partner/council-conservation-migratory-birds.

We appreciate your consideration of threatened and endangered species during your project

planning. Please include a copy of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- USFWS National Wildlife Refuges and Fish Hatcheries
- Bald & Golden Eagles
- Migratory Birds
- Wetlands

OFFICIAL SPECIES LIST

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Michigan Ecological Services Field Office
2651 Coolidge Road Suite 101
East Lansing, MI 48823-6360
(517) 351-2555

PROJECT SUMMARY

Project Code: 2024-0127659

Project Name: Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation

Project Type: Airport - New Construction

Project Description: Relocating and replacing the ATCT at GRR with construction of a 17,500 sq. ft. base building and associated site work including grading, drainage, utilities, and fencing. No tree removal will occur with the proposed project.

Project Location:

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.887540349999995,-85.50913285822722,14z

Counties: Kent County, Michigan

ENDANGERED SPECIES ACT SPECIES

There is a total of 7 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species. Note that 1 of these species should be considered only under certain conditions.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries[1], as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

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1. NOAA Fisheries, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

MAMMALS

NAME	STATUS
Indiana Bat *Myotis sodalis* There is **final** critical habitat for this species. Your location does not overlap the critical habitat. Species profile: https://ecos.fws.gov/ecp/species/5949 General project design guidelines: https://ipac.ecosphere.fws.gov/project/DEWUP4RYNVADDCWW7FYJMTM6B4/documents/generated/6982.pdf	Endangered
Northern Long-eared Bat *Myotis septentrionalis* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9045	Endangered
Tricolored Bat *Perimyotis subflavus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/10515	Proposed Endangered

BIRDS

NAME	STATUS
Whooping Crane *Grus americana* Population: U.S.A. (AL, AR, CO, FL, GA, ID, IL, IN, IA, KY, LA, MI, MN, MS, MO, NC, NM, OH, SC, TN, UT, VA, WI, WV, western half of WY) No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/758	Experimental Population, Non-Essential

REPTILES

NAME	STATUS
Eastern Massasauga (=rattlesnake) *Sistrurus catenatus* No critical habitat has been designated for this species. This species only needs to be considered under the following conditions: ▪ For all Projects: Project is within EMR Range Species profile: https://ecos.fws.gov/ecp/species/2202 General project design guidelines: https://ipac.ecosphere.fws.gov/project/DEWUP4RYNVADDCWW7FYJMTM6B4/documents/generated/5280.pdf	Threatened

INSECTS

NAME	STATUS
Karner Blue Butterfly *Lycaeides melissa samuelis* There is **proposed** critical habitat for this species. Species profile: https://ecos.fws.gov/ecp/species/6656	Endangered
Monarch Butterfly *Danaus plexippus* No critical habitat has been designated for this species. Species profile: https://ecos.fws.gov/ecp/species/9743	Candidate

CRITICAL HABITATS

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

YOU ARE STILL REQUIRED TO DETERMINE IF YOUR PROJECT(S) MAY HAVE EFFECTS ON ALL ABOVE LISTED SPECIES.

USFWS NATIONAL WILDLIFE REFUGE LANDS AND FISH HATCHERIES

Any activity proposed on lands managed by the National Wildlife Refuge system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS OR FISH HATCHERIES WITHIN YOUR PROJECT AREA.

BALD & GOLDEN EAGLES

Bald and golden eagles are protected under the Bald and Golden Eagle Protection Act[1] and the Migratory Bird Treaty Act[2].

Any person or organization who plans or conducts activities that may result in impacts to bald or golden eagles, or their habitats[3], should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

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1. The Bald and Golden Eagle Protection Act of 1940.
2. The Migratory Birds Treaty Act of 1918.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

There are likely bald eagles present in your project area. For additional information on bald eagles, refer to Bald Eagle Nesting and Sensitivity to Human Activity

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31

NAME	BREEDING SEASON
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

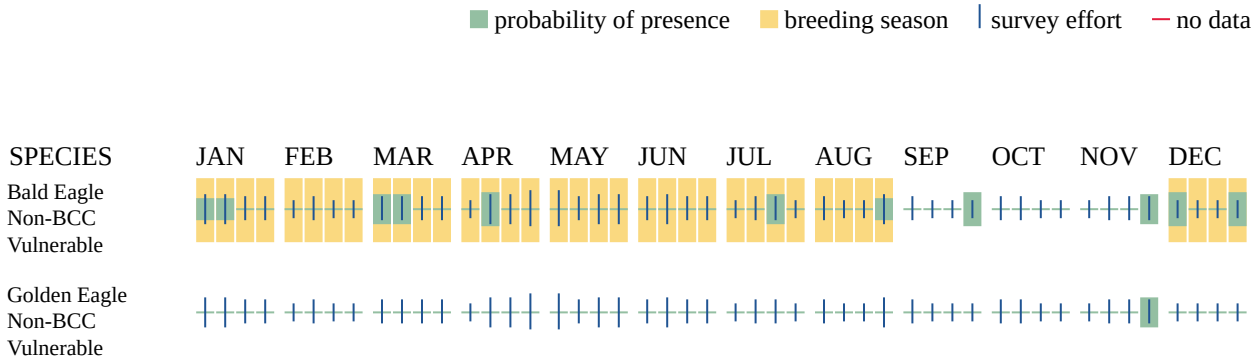
Probability of Presence (■)

Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

Breeding Season (■)
Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.



Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management

- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

MIGRATORY BIRDS

Certain birds are protected under the Migratory Bird Treaty Act[1] and the Bald and Golden Eagle Protection Act[2].

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats[3] should follow appropriate regulations and consider implementing appropriate conservation measures, as described in the links below. Specifically, please review the "Supplemental Information on Migratory Birds and Eagles".

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1. The Migratory Birds Treaty Act of 1918.
2. The Bald and Golden Eagle Protection Act of 1940.
3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, see the PROBABILITY OF PRESENCE SUMMARY below to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
American Golden-plover *Pluvialis dominica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/10561	Breeds elsewhere
Bald Eagle *Haliaeetus leucocephalus* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1626	Breeds Dec 1 to Aug 31
Black Tern *Chlidonias niger surinamenisis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3093	Breeds May 15 to Aug 20

NAME	BREEDING SEASON
Black-billed Cuckoo *Coccyzus erythropthalmus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9399	Breeds May 15 to Oct 10
Bobolink *Dolichonyx oryzivorus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9454	Breeds May 20 to Jul 31
Canada Warbler *Cardellina canadensis* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9643	Breeds May 20 to Aug 10
Chimney Swift *Chaetura pelagica* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9406	Breeds Mar 15 to Aug 25
Golden Eagle *Aquila chrysaetos* This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities. https://ecos.fws.gov/ecp/species/1680	Breeds elsewhere
Golden-winged Warbler *Vermivora chrysoptera* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/8745	Breeds May 1 to Jul 20
Grasshopper Sparrow *Ammodramus savannarum perpallidus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/8329	Breeds Jun 1 to Aug 20
Henslow's Sparrow *Centronyx henslowii* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/3941	Breeds May 1 to Aug 31
Lesser Yellowlegs *Tringa flavipes* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9679	Breeds elsewhere
Marbled Godwit *Limosa fedoa* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9481	Breeds May 1 to Jul 31

NAME	BREEDING SEASON
Pectoral Sandpiper *Calidris melanotos* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9561	Breeds elsewhere
Red-headed Woodpecker *Melanerpes erythrocephalus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9398	Breeds May 10 to Sep 10
Rusty Blackbird *Euphagus carolinus* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9478	Breeds elsewhere
Semipalmated Sandpiper *Calidris pusilla* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9603	Breeds elsewhere
Short-billed Dowitcher *Limnodromus griseus* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9480	Breeds elsewhere
Upland Sandpiper *Bartramia longicauda* This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA https://ecos.fws.gov/ecp/species/9294	Breeds May 1 to Aug 31
Wood Thrush *Hylocichla mustelina* This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska. https://ecos.fws.gov/ecp/species/9431	Breeds May 10 to Aug 31

PROBABILITY OF PRESENCE SUMMARY

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read "Supplemental Information on Migratory Birds and Eagles", specifically the FAQ section titled "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

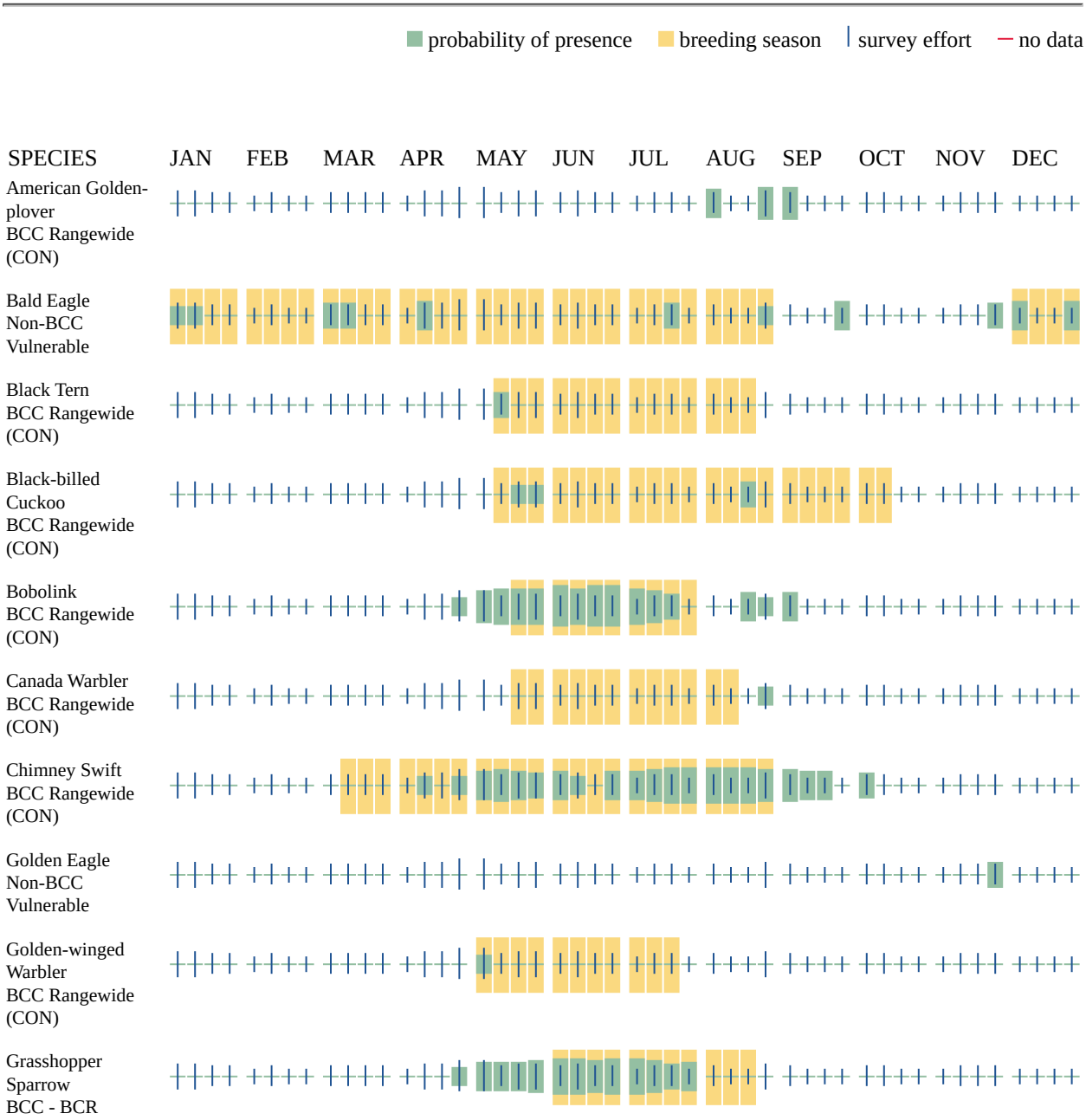
Green bars; the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during that week of the year.

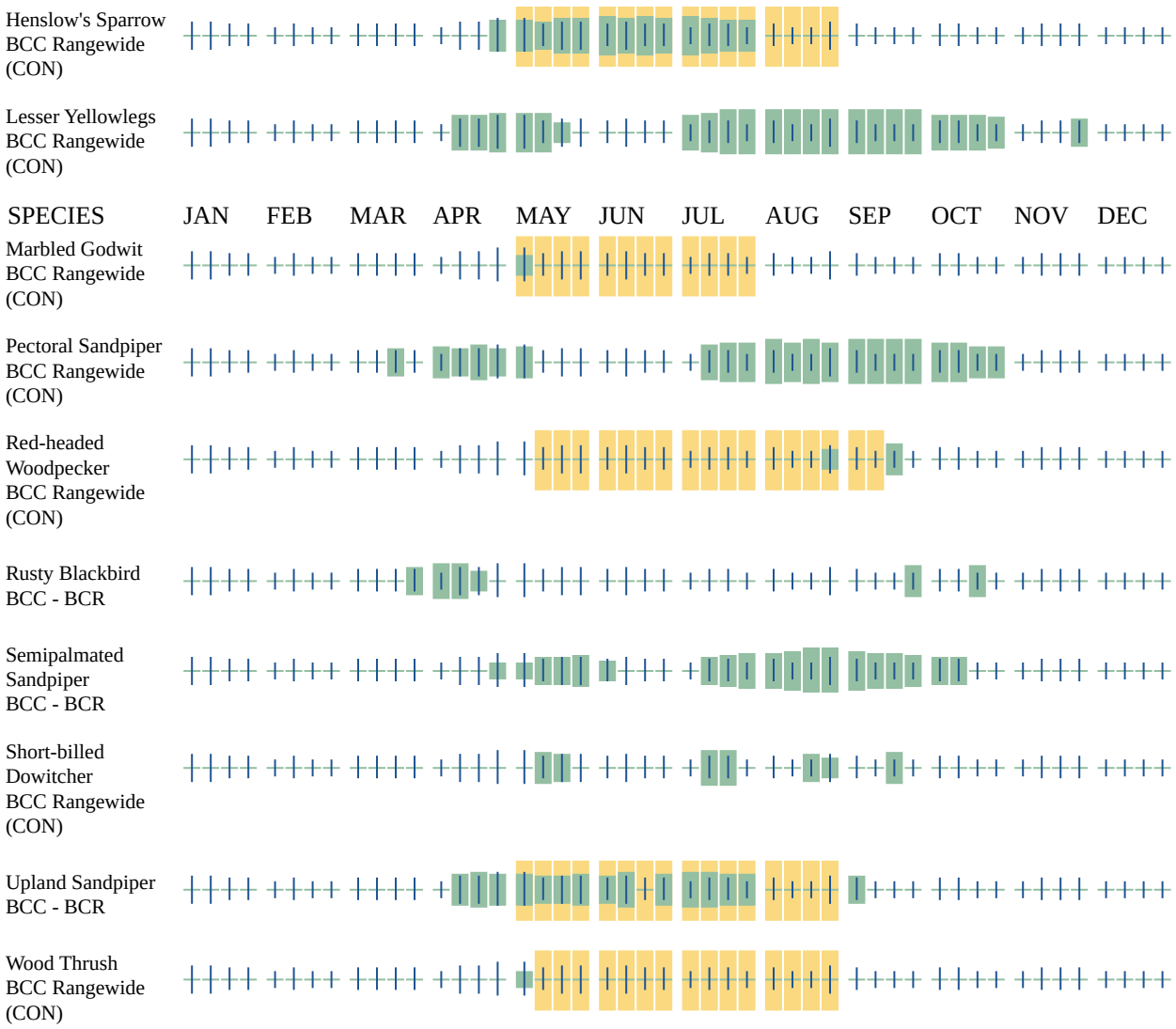
Breeding Season (■)

Yellow bars; liberal estimate of the timeframe inside which the bird breeds across its entire range.

Survey Effort (|)
Vertical black lines; the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps.

No Data (–)
A week is marked as having no data if there were no survey events for that week.





Additional information can be found using the following links:

- Eagle Management https://www.fws.gov/program/eagle-management
- Measures for avoiding and minimizing impacts to birds https://www.fws.gov/library/collections/avoiding-and-minimizing-incidental-take-migratory-birds
- Nationwide conservation measures for birds https://www.fws.gov/sites/default/files/documents/nationwide-standard-conservation-measures.pdf
- Supplemental Information for Migratory Birds and Eagles in IPaC https://www.fws.gov/media/supplemental-information-migratory-birds-and-bald-and-golden-eagles-may-occur-project-action

WETLANDS

Impacts to NWI wetlands and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local U.S. Army Corps of Engineers District.

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

THERE ARE NO WETLANDS WITHIN YOUR PROJECT AREA.

IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Brauna Hartzell
Address: 2440 Deming Way
City: Middleton
State: WI
Zip: 53562
Email brauna.hartzell@meadhunt.com
Phone: 6082736380

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

United States Department of the Interior

FISH AND WILDLIFE SERVICE
Michigan Ecological Services Field Office
2651 Coolidge Road Suite 101
East Lansing, MI 48823-6360
Phone: (517) 351-2555 Fax: (517) 351-1443

In Reply Refer To: 08/08/2024 14:40:18 UTC
Project code: 2024-0127659
Project Name: Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation

Subject: Verification letter for the project named 'Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation' for specified threatened and endangered species that may occur in your proposed project location consistent with the Michigan Endangered Species Determination Key (Michigan DKey)

Dear Brauna Hartzell:

The U.S. Fish and Wildlife Service (Service) received on **August 08, 2024** your effect determination(s) for the 'Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation' (the Action) using the Michigan DKey within the Information for Planning and Consultation (IPaC) system. The Service developed this system in accordance with the Endangered Species Act of 1973 (ESA) (87 Stat.884, as amended; 16 U.S.C. 1531 et seq.).

Based on your answers and the assistance of the Service's Michigan DKey, you made the following effect determination(s) for the proposed Action:

Species	**Listing Status**	**Determination**
Eastern Massasauga (=rattlesnake) (*Sistrurus catenatus*)	Threatened	NLAA
Indiana Bat (*Myotis sodalis*)	Endangered	No effect
Karner Blue Butterfly (*Lycaeides melissa samuelis*)	Endangered	No effect
Monarch Butterfly (*Danaus plexippus*)	Candidate	No effect
Northern Long-eared Bat (*Myotis septentrionalis*)	Endangered	No effect
Tricolored Bat (*Perimyotis subflavus*)	Proposed Endangered	No effect
Whooping Crane (*Grus americana*)	Experimental Population, Non-Essential	No effect

The Service will notify you within 30 calendar days if we determine that this proposed Action does not meet the criteria for a "may affect, not likely to adversely affect" (NLAA) determination

for Federally listed species in Michigan. If we do not notify you within that timeframe, you may proceed with the Action under the terms of the NLAA concurrence provided here. This verification period allows the Michigan Ecological Services Field Office to apply local knowledge to evaluation of the Action, as we may identify a small subset of actions having impacts that were unanticipated. In such instances, the Michigan Ecological Services Field Office may request additional information to verify the effects determination reached through the Michigan DKey.

Your agency has met consultation requirements by informing the Service of your "No Effect" determination(s). No consultation is required for species that you determined will not be affected by the Action.

Please provide sufficient project details on your project homepage in IPaC (Define Project, Project Description) to support your conclusions and the Service's 30-day review period. Failure to disclose important aspects of your project that would influence the outcome of your effects determinations may negate your determinations and invalidate this letter. If you have site-specific information that leads you to believe a different determination is more appropriate for your project than what the Dkey concludes, you can and should proceed based on the best available information.

The Service recommends that you contact the Service or re-evaluate the project in IPaC if: 1) the scope or location of the proposed Action is changed; 2) new information reveals that the action may affect listed species or designated critical habitat in a manner or to an extent not previously considered; 3) the Action is modified in a manner that causes effects to listed species or designated critical habitat; or 4) a new species is listed or critical habitat designated. If any of the above conditions occurs, additional consultation with the Service should take place before project changes are final or resources committed.

For non-Federal representatives: Please note that when a project requires consultation under section 7 of the Act, the Service must consult directly with the Federal action agency unless that agency formally designates a non-Federal representative (50 CFR 402.08). Non-Federal representatives may prepare analyses or conduct informal consultations; however, the ultimate responsibility for section 7 compliance under the Act remains with the Federal agency. If the Federal agency concurs with your determination, the project as proposed has completed section 7 consultation. All documents and supporting correspondence should be provided to the Federal agency for their records.

Bald and Golden Eagles:
Bald eagles, golden eagles, and their nests are protected under the Bald and Golden Eagle Protection Act (54 Stat. 250, as amended, 16 U.S.C. 668a-d) (Eagle Act). The Eagle Act prohibits, except when authorized by an Eagle Act permit, the "taking" of bald and golden eagles and defines "take" as "pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, molest or disturb." The Eagle Act's implementing regulations define disturb as "…to agitate or bother a bald or golden eagle to a degree that causes, or is likely to cause, based on the best scientific information available, (1) injury to an eagle, (2) a decrease in its productivity, by substantially interfering with normal breeding, feeding, or sheltering behavior, or (3) nest abandonment, by substantially interfering with normal breeding, feeding, or sheltering behavior."

If the Action may impact bald or golden eagles, additional coordination with the Service under the Eagle Act may be required. For more information on eagles and conducting activities in the vicinity of an eagle nest, please visit https://www.fws.gov/library/collections/all-about-eagles. In addition, the Service developed the National Bald Eagle Management Guidelines (May 2007) in order to assist landowners in avoiding the disturbance of bald eagles. The full Guidelines are available at https://www.fws.gov/media/national-bald-eagle-management-guidelines-0.

If you have further questions regarding potential impacts to eagles, please contact Chris Mensing, Chris_Mensing@fws.gov or 517-351-2555.

Monarch butterfly and other pollinators
In December 2020, after an extensive status assessment of the monarch butterfly, we determined that listing the monarch under the Endangered Species Act is warranted but precluded by higher priority actions to amend the Lists of Endangered and Threatened Wildlife and Plants. Therefore, the Service added the monarch butterfly to the candidate list. The Service will review its status each year until we are able to begin developing a proposal to list the monarch.

The Endangered Species Act does not establish protections or consultation requirements for candidate species. Some Federal and State agencies may have policy requirements to consider candidate species in planning. We encourage implementing measures that will remove or reduce threats to these species and possibly make listing unnecessary.

For all projects, we recommend the following best management practices (BMPs) to benefit monarch and other pollinators.

Monarch and Pollinator BMP Recommendations

Consider monarch and other pollinators in your project planning when possible. Many pollinators are declining, including species that pollinate key agricultural crops and help maintain natural plant communities. Planting a diverse group of native plant species will help support the nutritional needs of Michigan’s pollinators. We recommend a mix of flowering trees, shrubs, and herbaceous plants so that something is always blooming and pollen is available during the active periods of the pollinators, roughly early spring through fall (mid-March to mid-October). To benefit a wide variety of pollinators, choose a wide range of flowers with diverse colors, heights, structure, and flower shape. It is important to provide host plants for any known butterfly species at your site, including native milkweed for Monarch butterfly. Incorporating a water source (e.g., ephemeral pool or low area) and basking areas (rocks or bare ground) will provide additional resources for pollinators.

Many pollinators need a safe place to build their nests and overwinter. During spring and summer, leave some areas unmowed or minimize the impacts from mowing (e.g., decrease frequency, increase vegetation height). In fall, leave areas unraked and leave plant stems standing. Leave patches of bare soil for ground nesting pollinators.

Avoid or limit pesticide use. Pesticides can kill more than the target pest. Some pesticide residues can kill pollinators for several days after the pesticide is applied. Pesticides can also kill natural predators, which can lead to even worse pest problems.

Planting native wildflowers can also reduce the need to mow and water, improve bank stabilization by reducing erosion, and improve groundwater recharge and water quality.

Resources:

https://www.fws.gov/initiative/monarchs
https://www.fws.gov/library/collections/pollinators

Wetland impacts:
Section 404 of the Clean Water Act of 1977 (CWA) regulates the discharge of dredged or fill material into waters (including wetlands) of the United States. Regulations require that activities permitted under the CWA (including wetland permits issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE)) not jeopardize the continued existence of species listed as endangered or threatened. Permits issued by the U.S. Army Corps of Engineers must also consider effects to listed species pursuant to section 7 of the Endangered Species Act. The Service provides comments to the agencies that may include permit conditions to help avoid or minimize impacts to wildlife resources including listed species. For this project, we consider the conservation measures you agreed to in the determination key and/or as part of your proposed action to be non-discretionary. If you apply for a wetland permit, these conservation measures should be explicitly incorporated as permit conditions. Include a copy of this letter in your wetland permit application to streamline the threatened and endangered species review process.

Summary of conservation measures for your project You agreed to the following conservation measures to avoid adverse effects to listed species and our concurrence is only valid if the measures are fully implemented. These must be included as permit conditions if a permit is required and/or included in any contract language.

Eastern massasauga: Materials used for erosion control and site restoration must be wildlife-friendly. Do not use erosion control products containing plastic mesh netting or other similar material that could entangle eastern massasauga rattlesnake (EMR). Several products for soil erosion and control exist that do not contain plastic netting including net-less erosion control blankets (for example, made of excelsior), loose mulch, hydraulic mulch, soil binders, unreinforced silt fences, and straw bales. Others are made from natural fibers (such as jute) and loosely woven together in a manner that allows wildlife to wiggle free.

Eastern massasauga: To increase human safety and awareness of EMR, those implementing the project must first review the EMR factsheet (available at https://www.fws.gov/media/eastern-massasauga-rattlesnake-fact-sheet), and watch MDNR's "60-Second Snakes: The Eastern Massasauga Rattlesnake" video (available at https://www.youtube.com/watch?v=-PFnXe_e02w).

Eastern massasauga: During project implementation, report sightings of any federally listed species, including EMR, to the Service within 24 hours.

Eastern massasauga: The project will not result in permanent loss of more than one acre of wetland or conversion of more than 10 acres of EMR upland habitat (uplands associated with high quality wetland habitat) to other land uses.

Eastern massasauga: The project will occur entirely within the EMR active season (April 15 through October 15 in the southern Lower Peninsula; in the northern Lower Peninsula May 1 through October 1).

Listed bats: The action will not include temporary or permanent lighting of roadway(s), facility(ies), and/or parking lot(s).

Action Description
You provided to IPaC the following name and description for the subject Action.

1. Name

Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation

2. Description

The following description was provided for the project 'Gerald R. Ford International Airport (GRR) Air Traffic Control Tower (ATCT) Relocation':

> Relocating and replacing the ATCT at GRR with construction of a 17,500 sq. ft. base building and associated site work including grading, drainage, utilities, and fencing. No tree removal will occur with the proposed project.

The approximate location of the project can be viewed in Google Maps: https://www.google.com/maps/@42.887540349999995,-85.50913285822722,14z

QUALIFICATION INTERVIEW

1. Are there any possible effects to any listed species or to designated critical habitat from your project or effects from any other actions or projects subsequently made possible by your project?

   Select "Yes" even if the expected effects to the species or critical habitat are expected to be 1) extremely unlikely (discountable), 2) can't meaningfully be measured, detected, or evaluated (insignificant), or 3) wholly beneficial.

   Select "No" to confirm that the project details and supporting information allow you to conclude that listed species and their habitats will not be exposed to any effects (including discountable, insignificant, or beneficial effects) and therefore, you have made a "no effect" determination for all species. If you are unsure, select YES to answer additional questions about your project.

   Yes

2. This determination key is intended to assist the user in the evaluating the effects of their actions on Federally listed species in Michigan. It does not cover other prohibited activities under the Endangered Species Act (e.g., for wildlife: import/export, Interstate or foreign commerce, possession of illegally taken wildlife, purposeful take for scientific purposes or to enhance the survival of a species, etc.; for plants: import/export, reduce to possession, malicious destruction on Federal lands, commercial sale, etc.) or other statutes. Click yes to acknowledge that you must consider other prohibitions of the ESA or other statutes outside of this determination key.

   Yes

3. Is the action the approval of a long-term (i.e., in effect greater than 10 years) permit, plan, or other action? (e.g., a new or re-issued hydropower license, a large-scale land management plan, or other kinds of documents that provide direction for projects or actions that may be conducted over a long term (>10 years) without the need for additional section 7 consultation).

   No

4. Is the action being funded, authorized, or carried out by a Federal agency?

   Yes

5. Does the action involve the installation or operation of wind turbines?

   No

6. Are there at least 30 days prior to your action occurring? Endangered species consultation must be completed before taking any action that may have effects to listed species. The Service also needs 30 days to review projects before we can verify conclusions in some dkey output letters. For example, if you have already started some components of the project on the ground (e.g., removed vegetation) before completing this key, answer “no” to this question. The only exception is if you have a Michigan Field Office pre-approved emergence survey (i.e., if you have conducted pre-approved emergence surveys for listed bats before tree removal, you can still answer yes to this question).

   Yes

7. Does the action involve constructing a new communications tower or modifying an existing communications tower?

   No

8. Does the activity involve aerial or other large-scale application of any chemical (including insecticide, herbicide, etc.)?

   No

9. Does your project include water withdrawal (ground or surface water) greater than 10,000 gallons/day?

   No

10. Will your action permanently affect hydrology?

    No

11. Will your action temporarily affect hydrology?

    No

12. Will your project have any direct impacts to a stream or river (e.g., Horizontal Directional Drilling (HDD), hydrostatic testing, stream/road crossings, new storm-water outfall discharge, dams, other in-stream work, changes to water quality or hydrology, etc.)?

    No

13. Does your project have the potential to indirectly impact the stream/river or the riparian zone (e.g., cut and fill, horizontal directional drilling, hydrostatic testing, construction, vegetation removal, discharge, changes to water quality or hydrology, etc.)?

    No

14. Will your action disturb the ground or existing vegetation? This includes any off road vehicle access, soil compaction, digging, seismic survey, directional drilling, heavy equipment, grading, trenching, placement of fill, pesticide application, vegetation management (including removal or maintenance using equipment or chemicals), cultivation, development, etc.

    Yes

15. Is the action a utility-scale solar development project?

    Note: Solar projects are considered utility scale if they will be 1 megawatt or larger.

    No

16. [Hidden semantic] Does the action intersect the MOBU AOI?

    Automatically answered
    Yes

17. Under the ESA, monarchs remain warranted but precluded by listing actions of higher priority. The monarch is a candidate for listing at this time. The Endangered Species Act does not establish protections or consultation requirements for candidate species. Some Federal and State agencies may have policy requirements to consider candidate species in planning. We encourage implementing measures that will remove or reduce threats to these species and possibly make listing unnecessary. If your project will have no effect on monarch butterflies (for example, if your project won't affect their habitat or individuals), then you can make a "no effect" determination for this project. Are you making a "no effect" determination for monarch?

    Yes

18. [Hidden Semantic] Does the action intersect the Eastern massasauga rattlesnake area of influence?

    Automatically answered
    Yes

19. Does your action involve prescribed fire?

    No

20. Will this action occur entirely in the Eastern massasauga rattlesnake inactive season (October 16 through April 14)?

    No

21. Will this action occur entirely in the Eastern massasauga rattlesnake active season (April 15 through October 15)?

    Yes

22. Will the action result in permanent loss of more than one acre of wetland or conversion of more than 10 acres of uplands of potential Eastern massasauga rattlesnake habitat (uplands associated with high quality wetland habitat) to other land uses?

    No

23. Will you use wildlife safe materials for erosion control and site restoration and eliminate the use of erosion control products containing plastic mesh netting or other similar material that could ensnare Eastern massasauga rattlesnake?

    Yes

24. Will you watch MDNR's "60-Second Snakes: The Eastern Massasauga Rattlesnake (EMR)" video, review the EMR factsheet or call 517-351-2555 to increase human safety and awareness of EMR?

    Yes

25. Will all action personnel report any Eastern massasauga rattlesnake observations, or observation of any other listed threatened or endangered species, during action implementation to the Service within 24 hours?

    Yes

26. [Hidden Semantic] Does the action intersect the Karner blue butterfly area of influence?

    Automatically answered
    Yes

27. Will the action occur in oak savanna, oak or pine barrens, openings within oak forest, old fields in association with oak forest, or openings or rights-of-way with abundant native grasses and wildflowers?

    No

28. [Hidden Semantic] Does the action area intersect the whooping crane (ex. Pop) area of influence?

    Automatically answered
    Yes

29. Have you determined that the action will have no effect on individuals within the whooping crane nonessential experimental population (NEP)?

    Yes

30. The project has the potential to affect federally listed bats. Does the action area contain any known or potential bat hibernacula (natural caves, abandoned mines, or underground quarries)?

    No

31. Has a presence/absence bat survey or field-based habitat assessment following the Service's Range-wide Indiana Bat and Northern Long-eared Bat Summer Survey Guidelines been conducted within the action area?

    No

32. Does the action involve removal/modification of a human structure (barn, house or other building) known to contain roosting bats?

    No

33. Does the action include removal/modification of an existing bridge or culvert?

    No

34. Does the action include temporary or permanent lighting of roadway(s), facility(ies), and/or parking lot(s)?

    No

35. Does the action include one or more of the following: (1) tree cutting/trimming, (2) prescribed fire, (3) pesticide (including insecticide and/or rodenticide), and/or (4) herbicide/fungicide application?

    No

36. [Hidden Semantic] Does the action area intersect the Indiana bat AOI?

    Automatically answered
    Yes

37. [Hidden Semantic] Does this project intersect the northern long-eared bat area of influence?

    Automatically answered
    Yes

38. [Hidden semantic] Does the action intersect the Tricolored bat AOI/SLA/range?

    Automatically answered
    Yes

39. The tricolored bat was proposed for listing as endangered on September 13, 2022. In Michigan, the tricolored bat was rare pre-white nose syndrome (WNS) and is exceedingly rare post-WNS. The species has been observed in 12 Michigan counties to date, largely during the fall or winter. With very few exceptions, the species has not been observed in Michigan in the summer months, and no maternity colonies have been found. During winter, tricolored bats hibernate in caves, abandoned mines, and abandoned tunnels ranging from small to large in size. During spring, summer and fall months, they roost primarily among leaf clusters of live or recently dead deciduous/hardwood trees.

    Are you making a no effect determination on this project for the tricolored bat?

    Yes

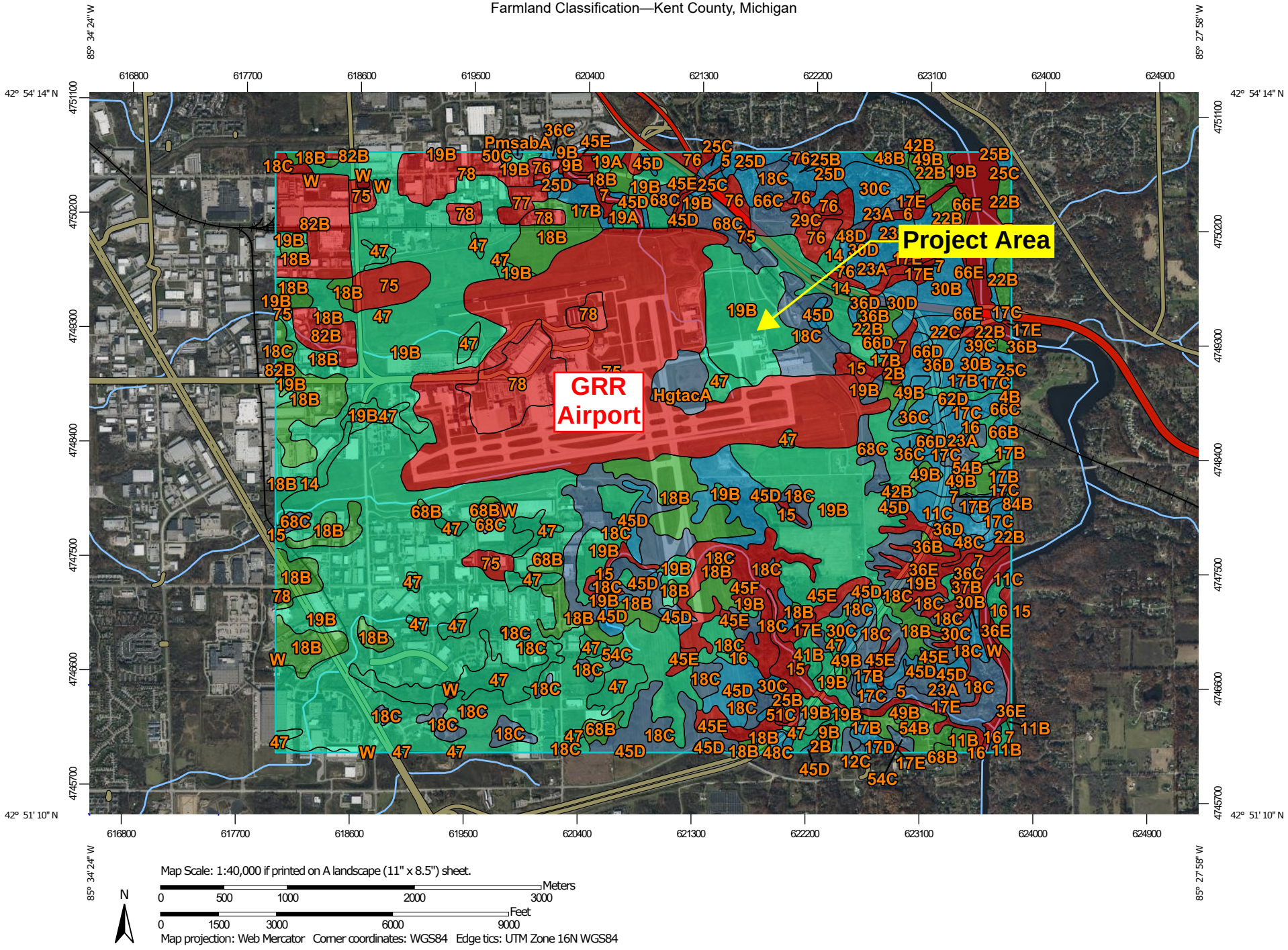
IPAC USER CONTACT INFORMATION

Agency: Private Entity
Name: Brauna Hartzell
Address: 2440 Deming Way
City: Middleton
State: WI
Zip: 53562
Email brauna.hartzell@meadhunt.com
Phone: 6082736380

LEAD AGENCY CONTACT INFORMATION

Lead Agency: Federal Aviation Administration

Appendix E – Farmland



Map Scale: 1:40,000 if printed on A landscape (11" x 8.5") sheet.

N

Meters: 0 500 1000 2000 3000

Feet: 0 1500 3000 6000 9000

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

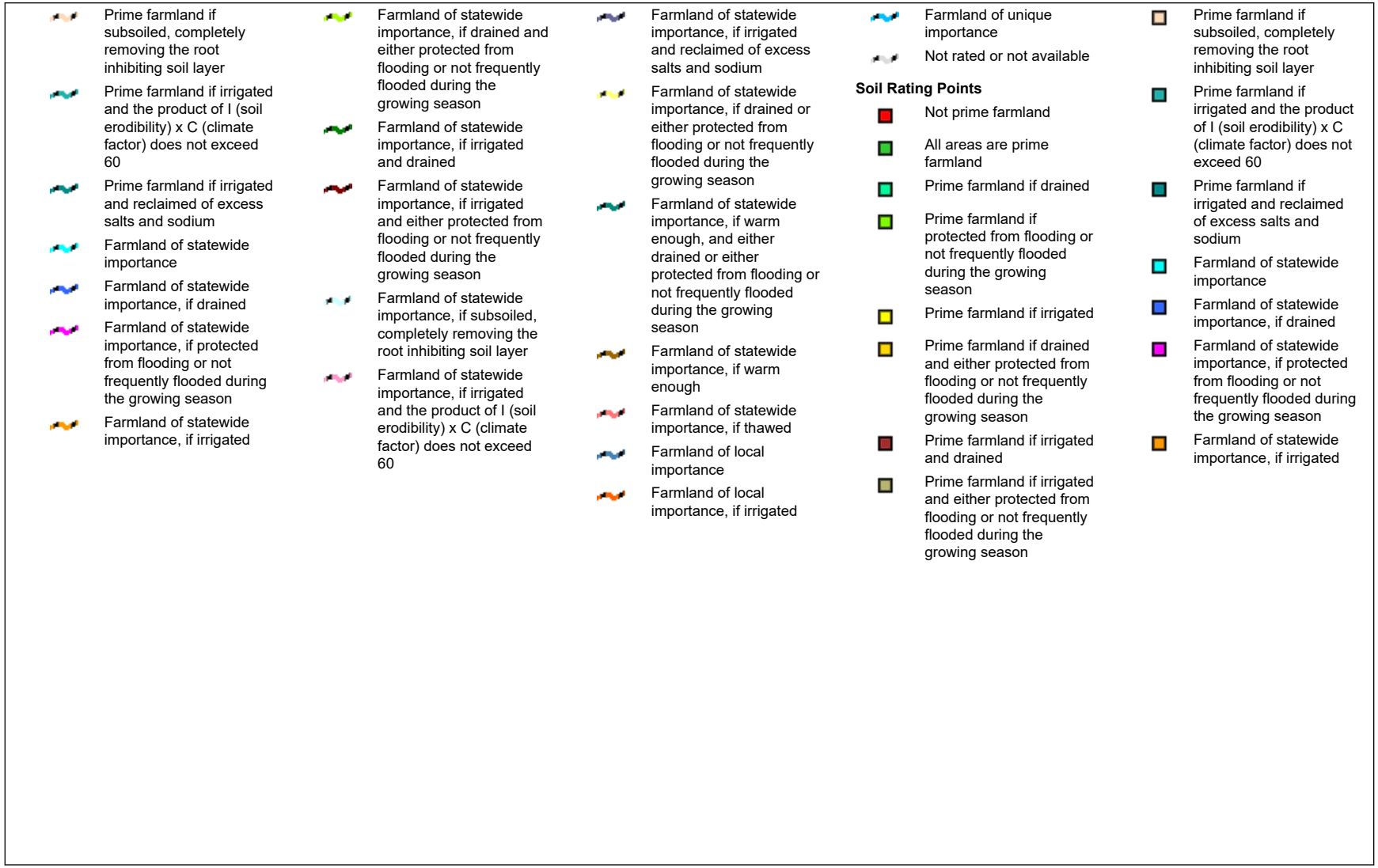
Soils

Soil Rating Polygons

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if subsoiled, completely removing the root inhibiting soil layer
- Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Prime farmland if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance
- Farmland of statewide importance, if drained
- Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated
- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated
- Farmland of unique importance
- Not rated or not available

Soil Rating Lines

- Not prime farmland
- All areas are prime farmland
- Prime farmland if drained
- Prime farmland if protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated
- Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
- Prime farmland if irrigated and drained
- Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season


Prime farmland if subsoiled, completely removing the root inhibiting soil layer
Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Prime farmland if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance
Farmland of statewide importance, if drained
Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated
Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated and drained
Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if warm enough
Farmland of statewide importance, if thawed
Farmland of local importance
Farmland of local importance, if irrigated
Farmland of unique importance
Not rated or not available
Soil Rating Points
Not prime farmland
All areas are prime farmland
Prime farmland if drained
Prime farmland if protected from flooding or not frequently flooded during the growing season
Prime farmland if irrigated
Prime farmland if drained and either protected from flooding or not frequently flooded during the growing season
Prime farmland if irrigated and drained
Prime farmland if irrigated and either protected from flooding or not frequently flooded during the growing season
Prime farmland if subsoiled, completely removing the root inhibiting soil layer
Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
Prime farmland if irrigated and reclaimed of excess salts and sodium
Farmland of statewide importance
Farmland of statewide importance, if drained
Farmland of statewide importance, if protected from flooding or not frequently flooded during the growing season
Farmland of statewide importance, if irrigated

- Farmland of statewide importance, if drained and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if irrigated and drained
- Farmland of statewide importance, if irrigated and either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if subsoiled, completely removing the root inhibiting soil layer
- Farmland of statewide importance, if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60
- Farmland of statewide importance, if irrigated and reclaimed of excess salts and sodium
- Farmland of statewide importance, if drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough, and either drained or either protected from flooding or not frequently flooded during the growing season
- Farmland of statewide importance, if warm enough
- Farmland of statewide importance, if thawed
- Farmland of local importance
- Farmland of local importance, if irrigated
- Farmland of unique importance
- Not rated or not available

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Kent County, Michigan
Survey Area Data: Version 22, Aug 25, 2023

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Oct 4, 2022—Nov 7, 2022

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Farmland Classification

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
2B	Oakville fine sand, moderately wet, 0 to 4 percent slopes	Not prime farmland	7.6	0.1%
4B	Perrin gravelly loamy sand, 0 to 4 percent slopes	Not prime farmland	0.2	0.0%
5	Algansee loamy fine sand	Farmland of local importance	59.1	0.9%
6	Glendora loamy sand	Not prime farmland	12.0	0.2%
7	Cohoctah loam	Not prime farmland	55.2	0.8%
9B	Rimer loamy fine sand, 0 to 4 percent slopes	Not prime farmland	13.3	0.2%
11B	Owosso-Marlette sandy loams, 2 to 6 percent slopes	All areas are prime farmland	9.7	0.1%
11C	Owosso-Marlette sandy loams, 6 to 12 percent slopes	Farmland of unique importance	28.2	0.4%
12B	Tustin loamy fine sand, 2 to 6 percent slopes	Farmland of local importance	1.9	0.0%
12C	Tustin loamy fine sand, 6 to 12 percent slopes	Farmland of local importance	4.8	0.1%
14	Shoals loam	Prime farmland if drained	38.3	0.6%
15	Sloan loam	Not prime farmland	65.1	1.0%
16	Ceresco loam	Prime farmland if drained	54.5	0.8%
17B	Chelsea loamy fine sand, 0 to 6 percent slopes	Farmland of unique importance	55.0	0.8%
17C	Chelsea loamy fine sand, 6 to 12 percent slopes	Farmland of unique importance	55.4	0.8%
17D	Chelsea loamy fine sand, 12 to 18 percent slopes	Farmland of unique importance	1.2	0.0%
17E	Chelsea loamy fine sand, 18 to 45 percent slopes	Not prime farmland	37.8	0.6%
18B	Glynwood loam, 2 to 6 percent slopes	All areas are prime farmland	451.7	6.6%
18C	Glynwood loam, 6 to 12 percent slopes	Farmland of local importance	487.4	7.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
19A	Blount loam, 0 to 2 percent slopes	Prime farmland if drained	16.1	0.2%
19B	Blount loam, 2 to 6 percent slopes	Prime farmland if drained	2,207.6	32.4%
22B	Oshtemo sandy loam, 0 to 6 percent slopes	All areas are prime farmland	75.7	1.1%
22C	Oshtemo sandy loam, 6 to 12 percent slopes	Farmland of unique importance	35.2	0.5%
23A	Thetford loamy sand, 0 to 3 percent slopes	Farmland of local importance	31.9	0.5%
25B	Oakville fine sand, 0 to 6 percent slopes	Farmland of unique importance	19.3	0.3%
25C	Oakville fine sand, 6 to 12 percent slopes	Farmland of unique importance	23.5	0.3%
25D	Oakville fine sand, 12 to 18 percent slopes	Farmland of unique importance	50.1	0.7%
25E	Oakville fine sand, 18 to 45 percent slopes	Not prime farmland	12.2	0.2%
29C	Plainfield sand, 6 to 12 percent slopes, spodic minor component	Not prime farmland	17.5	0.3%
30B	Spinks loamy sand, 0 to 6 percent slopes	Farmland of unique importance	68.7	1.0%
30C	Spinks loamy sand, 6 to 12 percent slopes	Farmland of unique importance	54.9	0.8%
30D	Spinks loamy sand, 12 to 18 percent slopes	Farmland of unique importance	61.9	0.9%
36B	Filer loam, 2 to 6 percent slopes	All areas are prime farmland	22.0	0.3%
36C	Filer loam, 6 to 12 percent slopes	Farmland of unique importance	33.8	0.5%
36D	Filer loam, 12 to 18 percent slopes	Farmland of unique importance	45.7	0.7%
36E	Filer loam, 18 to 35 percent slopes	Not prime farmland	79.6	1.2%
37B	Capac loam, Lake Michigan lobe, 0 to 4 percent slopes	Prime farmland if drained	3.2	0.0%
39C	Arkport loamy very fine sand, 6 to 12 percent slopes	Farmland of local importance	7.6	0.1%
41B	Kibbie loam, 0 to 4 percent slopes	Prime farmland if drained	12.9	0.2%
42B	Tedrow loamy fine sand, 0 to 4 percent slopes	Farmland of local importance	3.2	0.0%
45D	Perrinton loam, 12 to 18 percent slopes	Farmland of unique importance	195.1	2.9%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
45E	Perrinton loam, 18 to 25 percent slopes	Not prime farmland	78.8	1.2%
45F	Perrinton loam, 25 to 40 percent slopes	Not prime farmland	110.8	1.6%
47	Pewamo loam	Prime farmland if drained	249.4	3.7%
48B	Metea loamy sand, 2 to 6 percent slopes	All areas are prime farmland	7.5	0.1%
48C	Metea loamy sand, 6 to 12 percent slopes	Farmland of unique importance	7.7	0.1%
48D	Metea loamy sand, 12 to 18 percent slopes	Farmland of unique importance	16.1	0.2%
49B	Selfridge loamy sand, 0 to 4 percent slopes	All areas are prime farmland	38.6	0.6%
50C	Woodbeck silt loam, 6 to 12 percent slopes	Farmland of local importance	1.5	0.0%
51C	Oakville fine sand, loamy substratum, 6 to 12 percent slopes	Not prime farmland	3.1	0.0%
54B	Tuscola silt loam, 2 to 6 percent slopes	All areas are prime farmland	37.7	0.6%
54C	Tuscola silt loam, 6 to 12 percent slopes	Farmland of local importance	6.3	0.1%
62D	Tekenink fine sandy loam, 12 to 18 percent slopes	Farmland of unique importance	5.6	0.1%
66B	Boyer loamy sand, 0 to 6 percent slopes	Farmland of unique importance	9.1	0.1%
66C	Boyer loamy sand, 6 to 12 percent slopes	Farmland of unique importance	4.3	0.1%
66D	Boyer loamy sand, 12 to 18 percent slopes	Farmland of unique importance	37.2	0.5%
66E	Boyer loamy sand, 18 to 40 percent slopes	Not prime farmland	11.8	0.2%
68B	Saylesville silt loam, 2 to 6 percent slopes	All areas are prime farmland	32.9	0.5%
68C	Saylesville silt loam, 6 to 12 percent slopes	Farmland of local importance	82.8	1.2%
75	Udorthents, loamy	Not prime farmland	948.0	13.9%
76	Udipsamments, nearly level to steep	Not prime farmland	62.5	0.9%
77	Pits, gravel	Not prime farmland	18.3	0.3%
78	Urban land	Not prime farmland	213.2	3.1%
82B	Urban land-Perrinton complex, 0 to 8 percent slopes	Not prime farmland	148.3	2.2%

Map unit symbol	Map unit name	Rating	Acres in AOI	Percent of AOI
84B	Dixboro loamy fine sand, 0 to 4 percent slopes	Prime farmland if drained	3.0	0.0%
AdraaA	Adrian muck, 0 to 1 percent slopes	Farmland of local importance	3.0	0.0%
HgtacA	Houghton muck, lake moderated, 0 to 1 percent slopes	Farmland of local importance	40.1	0.6%
PmsabA	Palms muck, lake moderated, 0 to 1 percent slopes	Farmland of local importance	0.9	0.0%
W	Water	Not prime farmland	116.4	1.7%
Totals for Area of Interest			**6,811.7**	**100.0%**

Description

Farmland classification identifies map units as prime farmland, farmland of statewide importance, farmland of local importance, or unique farmland. It identifies the location and extent of the soils that are best suited to food, feed, fiber, forage, and oilseed crops. NRCS policy and procedures on prime and unique farmlands are published in the "Federal Register," Vol. 43, No. 21, January 31, 1978.

Rating Options

Aggregation Method: No Aggregation Necessary

Aggregation is the process by which a set of component attribute values is reduced to a single value that represents the map unit as a whole.

A map unit is typically composed of one or more "components". A component is either some type of soil or some nonsoil entity, e.g., rock outcrop. For the attribute being aggregated, the first step of the aggregation process is to derive one attribute value for each of a map unit's components. From this set of component attributes, the next step of the aggregation process derives a single value that represents the map unit as a whole. Once a single value for each map unit is derived, a thematic map for soil map units can be rendered. Aggregation must be done because, on any soil map, map units are delineated but components are not.

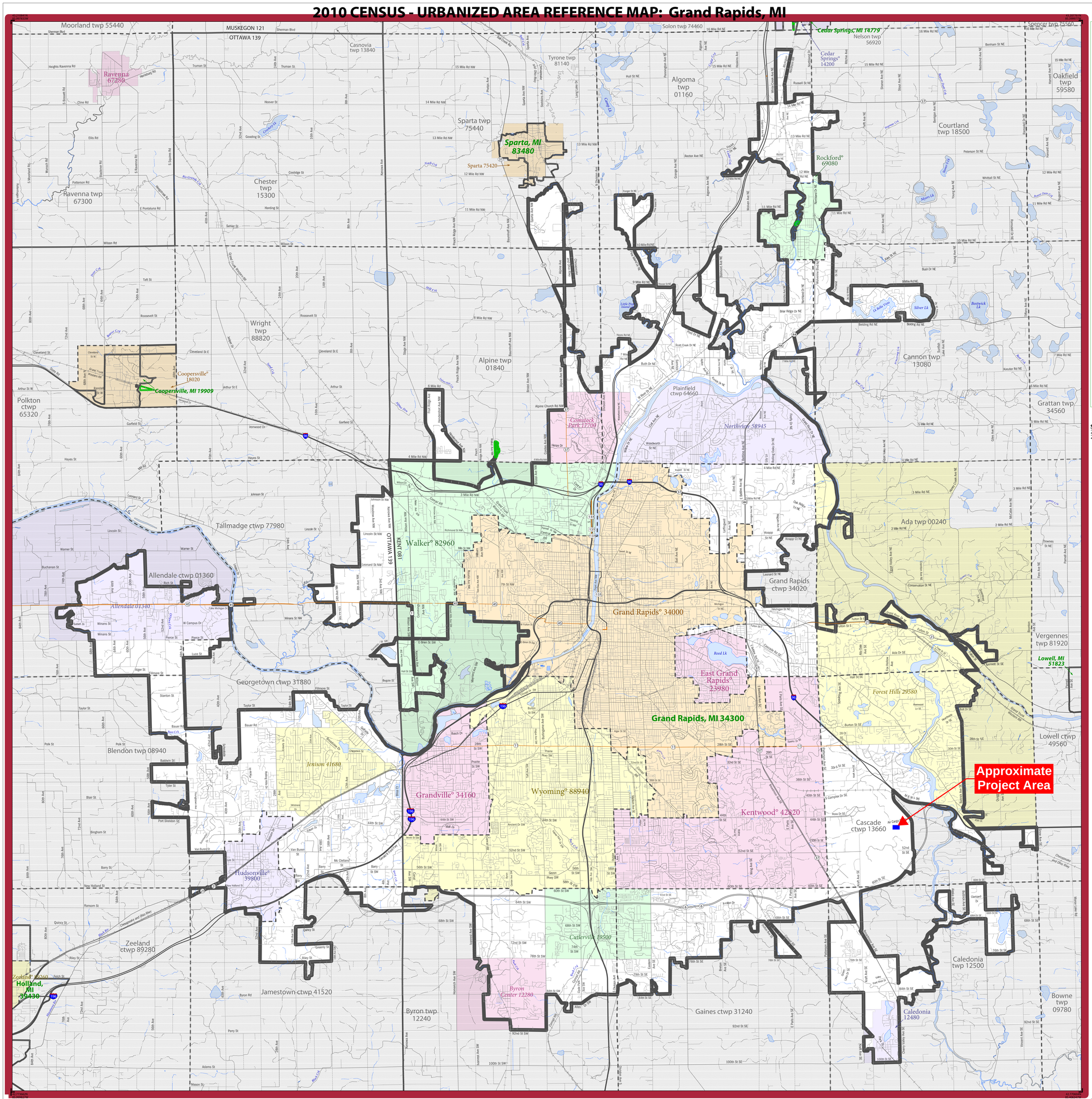
For each of a map unit's components, a corresponding percent composition is recorded. A percent composition of 60 indicates that the corresponding component typically makes up approximately 60% of the map unit. Percent composition is a critical factor in some, but not all, aggregation methods.

The majority of soil attributes are associated with a component of a map unit, and such an attribute has to be aggregated to the map unit level before a thematic map can be rendered. Map units, however, also have their own attributes. An attribute of a map unit does not have to be aggregated in order to render a corresponding thematic map. Therefore, the "aggregation method" for any attribute of a map unit is referred to as "No Aggregation Necessary".

Tie-break Rule: Lower

The tie-break rule indicates which value should be selected from a set of multiple candidate values, or which value should be selected in the event of a percent composition tie.

2010 CENSUS - URBANIZED AREA REFERENCE MAP: Grand Rapids, MI



LEGEND

SYMBOL DESCRIPTION	LABEL STYLE
International	CANADA
Federal American Indian Reservation	L'ANSE RES 1880
Off-Reservation Trust Land	T1880
Urbanized Area	Dover, DE 24580
Urban Cluster	*Tooele, VT 88057*
State (or statistically equivalent entity)	NEW YORK 36
County (or statistically equivalent entity)	ERIE 029
Minor Civil Division (MCD) [1,2]	Bristol town 07485
Consolidated City	MILFORD 47500
Incorporated Place [1,3]	Davis 18100
Census Designated Place (CDP) [3]	*Incline Village 35100*

DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL
Interstate	10	Water Body	Pleasant Lake
U.S. Highway	2	Military	Fort Belvoir
State Highway	4	Outside Subject Area	
Other Road	Marsh Ln		
Railroad	Southern RR		
Perennial Stream	Tumbling Cr		
Intermittent Stream	Piney Cr		

Where international, state, county, and/or MCD boundaries coincide, the map shows the boundary symbol for only the highest-ranking of these boundaries.

1 A '*' following an MCD name denotes a false MCD. A '°' following a place name indicates that a false MCD exists with the same name and FIPS code as the place; the false MCD label is not shown.

2 MCD boundaries are shown in the following states in which some or all MCDs function as general-purpose governmental units: Connecticut, Illinois, Indiana, Kansas, Maine, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, New Hampshire, New Jersey, New York, North Dakota, Ohio, Pennsylvania, Rhode Island, South Dakota, Vermont, and Wisconsin. (Note that Illinois and Nebraska have some counties covered by nongovernmental precincts and Missouri has most counties covered by nongovernmental townships.)

3 Place label color corresponds to the place fill color.
Label colors: Davis Davis Davis Davis Davis

SUBJECT AREA COUNTIES ON MAP SHEET
26081 Kent
26139 Ottawa

All legal boundaries and names are as of January 1, 2010. Urban areas are based on results from the 2010 Decennial Census. The boundaries shown on this map are for Census Bureau statistical data collection and tabulation purposes only; their depiction and designation for statistical purposes does not constitute a determination of jurisdictional authority or rights of ownership or entitlement.

Geographic Vintage: 2010 Census (reference date: January 1, 2010)
Data Source: U.S. Census Bureau's MAF/TIGER database (TAB10)
Map Created by Geography Division: March 09, 2012

U.S. DEPARTMENT OF COMMERCE Economics and Statistics Administration U.S. Census Bureau

Projection: Albers Equal Area Conic
Datum: NAD 83
Spheroid: GRS 80
1st Standard Parallel: 42 47 51
2nd Standard Parallel: 47 12 16
Central Meridian: -86 16 13
Latitude of Projection's Origin: 41 41 45
False Easting: 0
False Northing: 0

0 1 2 3 4 5 Kilometers
0 1 2 3 4 5 Miles
The plotted map scale is 1:66516

N W E S

United States Census Bureau

PARENT SHEET 1

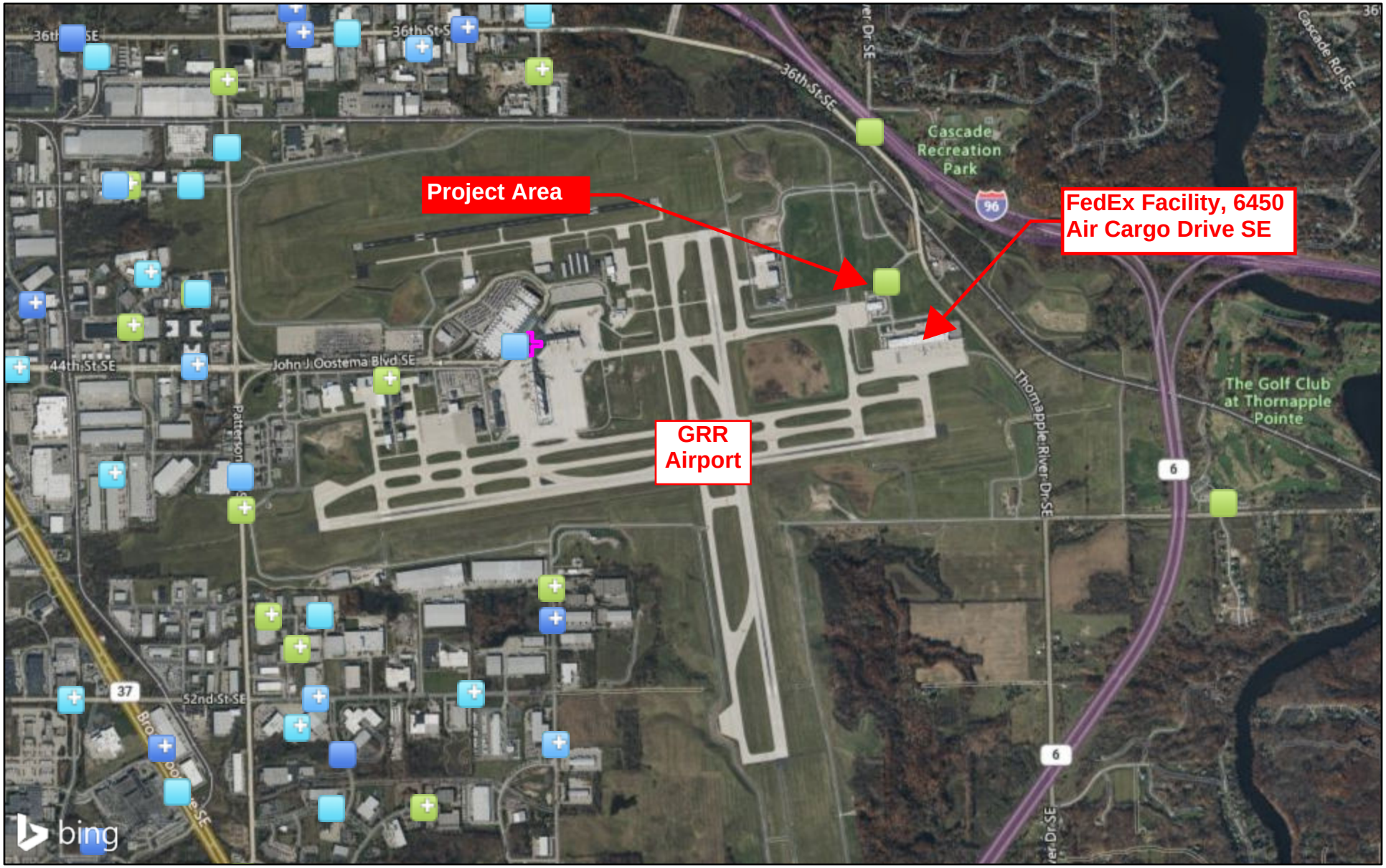
Total Sheets: 1
- Index Sheets: 0
- Parent Sheets: 1

UA NAME: Grand Rapids, MI
UA CODE: 34300
ENTITY TYPE: Urbanized Area (UA)
ST: Michigan (26)

2010 CENSUS UA REF MAP (PARENT)
231034300001

Appendix F – Hazardous Materials

NEPAssist EPA Facilities Map



August 8, 2024

- Toxic Releases (TRI)
- Toxic Releases (TRI)
- Air Pollution (ICIS-AIR)
- Air Pollution (ICIS-AIR)
- Water Dischargers (NPDES)
- Water Dischargers (NPDES)
- Hazardous Waste (RCRAInfo)
- Hazardous Waste (RCRAInfo)
- Search Result (point)

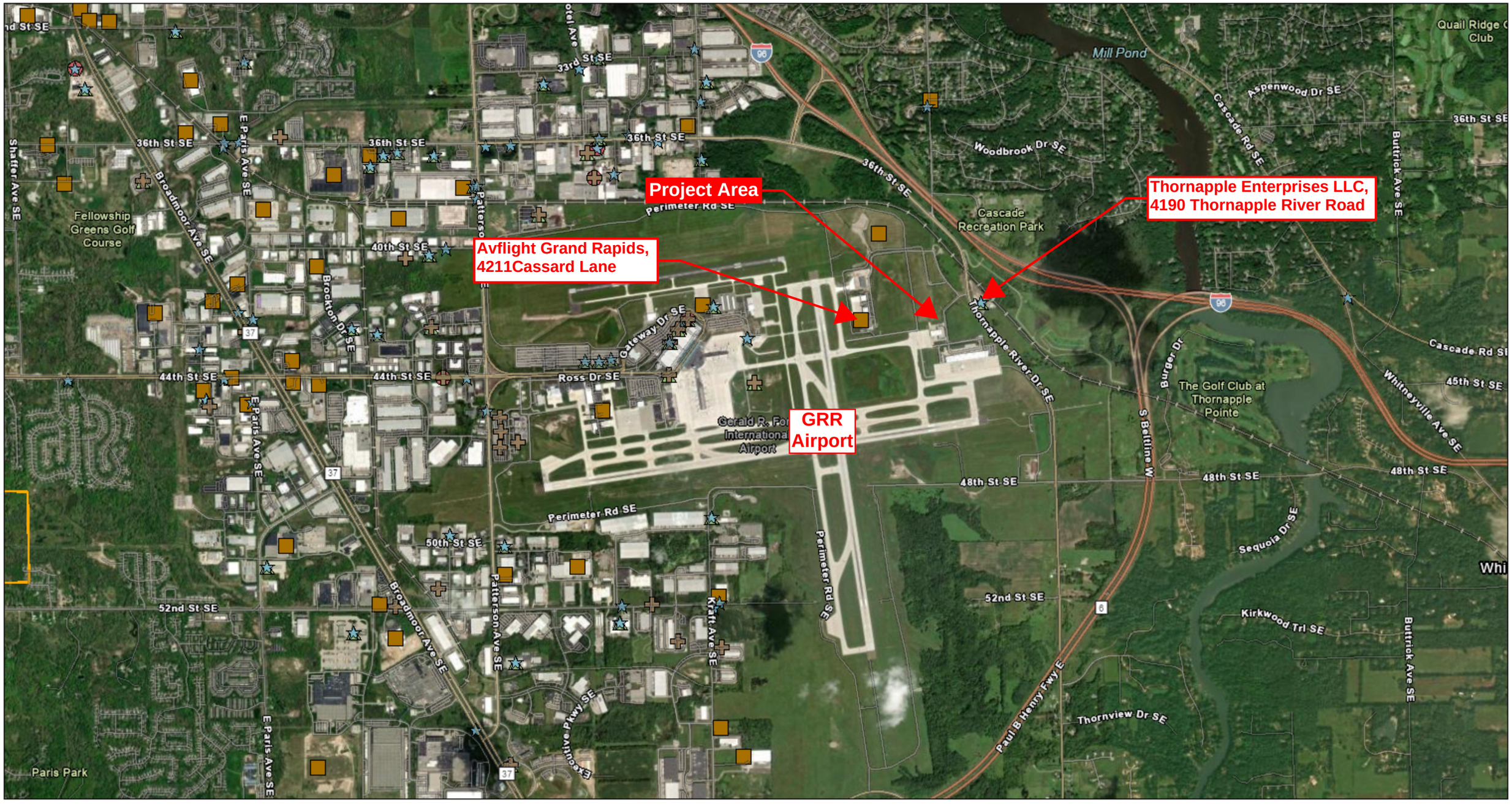
1:36,112

0 0.23 0.45 0.9 mi

0 0.35 0.7 1.4 km

© 2024 Microsoft Corporation © 2024 Maxar ©CNES (2024) Distribution Airbus DS © 2024 TomTom

EGLE RIDE Mapper Database Map



8/8/2024, 2:18:35 PM

Part 211 Underground Storage Tanks

- Active
- Closed

Part 213 Leaking Underground Storage Tanks

- Open
- Closed

- Part 201 Environmental Contamination Sites
- NPL Superfund Site Boundaries (EPA Public)

1:35,567

0 0.33 0.65 1.3 mi

0 0.5 1 2 km

Maxar, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Appendix G – Section 106 Report

GRETCHEN WHITMER
GOVERNOR

STATE OF MICHIGAN
MICHIGAN STRATEGIC FUND
STATE HISTORIC PRESERVATION OFFICE

QUENTIN L. MESSER, JR.
PRESIDENT

October 22, 2024

AARON COMROV
FEDERAL AVIATION ADMINISTRATION
2300 EAST DEVON AVENUE
DES PLAINES IL 60018

RE: ER25-23 Gerald R. Ford International Airport (GRR) Air Traffic Control Tower Relocation, 5500 44th Street SE, Cascade Township, Kent County (FAA)

Dear Aaron Comrov:

Under the authority of Section 106 of the National Historic Preservation Act of 1966, as amended, we have reviewed the above-cited undertaking at the location noted above. Based on the information provided for our review, it is the opinion of the State Historic Preservation Officer (SHPO) that **no historic properties are affected** within the area of potential effects of this undertaking.

This letter evidences FAA's compliance with 36 CFR § 800.4 "Identification of historic properties," and the fulfillment of FAA's responsibility to notify the SHPO, as a consulting party in the Section 106 process, under 36 CFR § 800.4(d)(1) "No historic properties affected." **If the scope of work changes in any way, or in the unlikely event that human remains or archaeological material are encountered during construction activities related to the above-cited undertaking, work must be halted, and the Michigan SHPO and other appropriate authorities must be contacted immediately.**

We remind you that federal agency officials or their delegated authorities are required to involve the public in a manner that reflects the nature and complexity of the undertaking and its effects on historic properties per 36 CFR § 800.2(d). The National Historic Preservation Act also requires that federal agencies consult with Native American Tribes and/or Tribal Historic Preservation Officers (THPO) who may attribute religious and cultural significance to historic properties that may be affected by the agency's undertakings per 36 CFR § 800.2(c)(2)(ii).

The State Historic Preservation Office is not the office of record for this undertaking. You are therefore asked to maintain a copy of this letter with your environmental review record for this undertaking.

If you have any questions, please contact Cassandra Nelson, Historian, at 517-648-4050 or by email at nelsonc32@michigan.gov. **Please reference our project number in all communication with this office regarding this undertaking.** Thank you for this opportunity to review and comment, and for your cooperation.

Sincerely,

Cassandra Nelson
Historian

Copy: Michelle Baker, Gerald Ford international Airport
Brian Matuk, Mead & Hunt

From: Martino, Alec (FAA)
To: Courtney Beard
Subject: FW: GRR ATCT disposal/transfer to the sponsor
Date: Monday, June 24, 2024 11:04:07 AM
Attachments: image001.png
image002.png
image003.png
image004.png
image005.png
image006.png
image007.png

Hi Courtney,

This is the correspondence between the sponsor and the FAA confirming the transfer to the ATCT.

Alec L. Martino
Alec L. Martino EIT
Environmental Engineer
AJW-2C16E Infrastructure EOSH
2300 East Devon Ave. Des Plaines, IL
847-294-8037 – Work
224-325-9421 - Cell

From: Comrov, Aaron (FAA) <aaron.comrov@faa.gov>
Sent: Friday, June 14, 2024 7:28 AM
To: Gurke, Brian (FAA) <Brian.Gurke@faa.gov>; Martino, Alec (FAA) <Alec.Martino@faa.gov>
Subject: RE: GRR ATCT disposal/transfer to the sponsor

Brian and Alec – this is great news.

Alec: please make sure to inform M&H of the mutual understanding/agreement between FAA and GRR of the FAA's intent to abandon the old ATCT in place, which would ultimately be demoed by GRR. When corresponding with the SHPO, the federal undertaking should be limited to the transfer of the tower out of federal ownership. The text in the EA should also be reflective of this.

Let me know if either of you want to talk further next week.

Aaron W. Comrov
Environmental Team Lead
CSA ES EOSH Center | AJW-2C16E
Federal Aviation Administration
2300 East Devon Avenue, Room 450
Des Plaines, Illinois 60018
office: 847.294.7665
mobile: 312.480.0356
aaron.comrov@faa.gov

From: Casey Ries <cries@grr.org>
Sent: Thursday, June 13, 2024 3:25 PM
To: Gurke, Brian (FAA) <Brian.Gurke@faa.gov>
Cc: Comrov, Aaron (FAA) <aaron.comrov@faa.gov>; Martino, Alec (FAA) <Alec.Martino@faa.gov>; Tom Cizauskas <tcizauskas@grr.org>; Clinton Nemeth <CNemeth@grr.org>
Subject: RE: GRR ATCT disposal/transfer to the sponsor

CAUTION: This email originated from outside of the Federal Aviation Administration (FAA). Do not click on links or open attachments unless you recognize the sender and know the content is safe.

Thank you for the note Brian,

I can confirm that the Airport Authority's understanding of ownership aligns with the summary below. Specifically, the FAA has the right to terminate its occupancy of the facility under the current MOS with 60 days' notice.

If you haven't already done so, please upload the documents that are too large to email here: https://gfiaait.sharefile.com/r-r29c015ded05e471983c988d23ef15075 You will need to enter your name and email address and will then be able to upload documents.

Thanks again,
Casey

Casey Ries, P.E. | Engineering and Planning Director
Gerald R. Ford International Airport Authority
5500 44th St. SE, Grand Rapids, MI 49512
O: (616) 233-6040

This message has been prepared on resources owned by the Gerald R. Ford International Airport Authority (GFIAA). It is subject to the Acceptable Use Policy of GFIAA.

From: Gurke, Brian (FAA) <Brian.Gurke@faa.gov>
Sent: Tuesday, June 4, 2024 1:22 PM
To: Casey Ries <cries@grr.org>
Cc: Comrov, Aaron (FAA) <aaron.comrov@faa.gov>; Martino, Alec (FAA) <Alec.Martino@faa.gov>
Subject: GRR ATCT disposal/transfer to the sponsor

Casey – This email is to confirm that the sponsor (Airport) has the same understanding as the Agency (FAA) as to ownership and responsibilities at the time the FAA abandons the current ATCT and is commissioned in the new ATCT.

Per the current Lease for the current tower:

- The current tower is Government owned
- The FAA's responsibilities, Clause #9, Non-Restoration, explicitly states that "the FAA shall have no obligation to restore and/or rehabilitate, either wholly or partially, the property which is the subject matter of [said] agreement."
- The FAA may abandon in place all structures and/or equipment, which would become property of the airport. If the airport expresses interest in assuming (official, on the record) ownership, FAA Real Estate can coordinate the transfer through a Transfer Agreement.
- "The FAA agrees to remediate, at its sole cost, all hazardous substance contamination on the FAA facility premises that is found to have occurred as a direct result of the installation, operation, relocation and/or maintenance of the FAA's facilities covered by this agreement. The Airport agrees to remediate or have remediated at it's sole cost, any and all other hazardous substance contamination found on the FAA facility premises. The Airport also agrees to save and hold the US Government harmless for any and all costs, liabilities and/or claims by third parties that arise out of hazardous contamination found on the FAA facility premises that are not directly attributable to the installation, operation and/or maintenance of the facilities

on the attached FAA “List of Facilities”

The FAA plans to abandon in place and transfer ownership of the tower to the Airport, so the FAA will not be demolishing the current tower.

I have a Condition Assessment for the existing tower for your information. Please understand that this report is a snapshot in time and may not include events that occurred after the report was issued. Also, any cost information contained in the CA is not valid. . This report is large and cannot be sent via email. Do you have an FTP site I can download to?

I have the latest information for asbestos and lead. The asbestos is too large to send via email, so will provide with CA. Attached is the Lead report. Let me know if you need anything else. Thank you for your time Casey.

Brian Gurke
Terminal Engineering Center, AJW-2C11A
847.294.7464 (W)
847.630.1440 (C)

APPLICATION FOR SHPO SECTION 106 CONSULTATION

Submit one application for each project for which comment is requested. Consult the *Instructions for the Application for SHPO Section 106 Consultation Form* when completing this application.

Submit application materials online at www.michigan.gov/shposection106 or mail to: Michigan State Historic Preservation Office, 300 North Washington Square, Lansing, MI 48913

I. **GENERAL INFORMATION**

☒ New submittal
☐ More information relating to SHPO ER# SHPO Project #
☐ Submitted under a Programmatic Agreement (PA)
PA Name/Date: PA name/date, if applicable

II. **Project Name: Gerald R. Ford International Airport (GRR) Air Traffic Control Tower Relocation**

a. **Project Location(s):**

If there is more than one location for your project, additional rows may be added to the table below. Township, Range, Section/Private Claim refer to the public land survey sections. Each Township/Range group must have its own row in the table below and must include the corresponding county and municipal unit.

County	Municipality	Street Address	Township (N/S)	Range (E/W)	Section(s) or Private Claim
Kent County	Cascade Charter Township	5500 44th Street SE	6N	10W	19, 20, 21

III. **FEDERAL AGENCY INVOLVEMENT AND RESPONSE CONTACT INFORMATION**

a. **Federal Agency:** Federal Aviation Administration (FAA)
Contact Name: Aaron Comrov
Contact Address: 2300 East Devon Ave, Room 450 **City:** Des Plaines **State:** IL **Zip:** 60018
Email: aaron.comrov@faa.gov
Specify the federal agency involvement in the project: This is a federally obligated airport, and must meet FAA's federal grant assurance and Airport Layout Plan (ALP) requirements. Additionally, FAA vacating the air traffic control tower (ATCT) is a project activity that requires review under Section 106 of the National Historic Preservation Act of 1966, as amended (Section 106).

b. **If HUD is the Federal Agency: 24 CFR Part 50 ☐ or Part 58 ☐**
Responsible Entity (RE): Name of the entity that is acting as the Responsible Entity
Contact Name: RE Contact name
Contact Address: RE mailing address **City:** RE city **State:** RE State **Zip:** RE zip code
RE Email: RE contact's email **Phone:** RE contact's phone #

c. **State Agency Contact (*if applicable*):** Name of state agency
Contact Name: Name of state agency contact
Contact Address: State agency contact's mailing address **City:** State contact's city **Zip:** State contact's zip code
Email: State contact's email **Phone:** State contact's phone #

d. **Applicant (if different than federal agency):** Gerald R. Ford International Airport Authority
Contact Name: Michelle Baker, Environmental Manager
Contact Address: 5500 44th Street SE **City:** Grand Rapids **State:** MI **Zip:** 49512
Email: mbaker@grr.org **Phone:** 616-233-6022

e. **Consulting Firm (if applicable):** Mead & Hunt, Inc.
Contact Name: Brian Matuk
Contact Address: 180 Promenade Cir, Suite 240 **City:** Sacramento **State:** CA **Zip**: 95834
Email: brian.matuk@meadhunt.com Phone: 916-971-3961

IV. PROJECT INFORMATION

a. **Project Work Description**
Describe all work to be undertaken as part of the project:
The Gerald R. Ford International Airport (GRR) proposes to replace the existing FAA ATCT with a new ATCT in a different part of the airfield. As part of this project, FAA would vacate the current tower and remove it from federal ownership. A new ATCT is proposed to be constructed on the east side of the airfield. The new ATCT is proposed to be 190 feet tall with an octagonal shaped cab. At this time, no other specifications or design plans have been completed. Additionally, no plans have been proposed for alterations to the existing ATCT, such as new uses, physical changes, or demolition. See Appendix A: Siting Report for details on project activities related to the proposed new ATCT.

b. **Project Location and Area of Potential Effect (APE)**

i. **Maps.** Please indicate all maps that will be submitted as attachments to this form.
☒Street map, clearly displaying the direct and indirect APE boundaries
☐Site map
☒USGS topographic map Name(s) of topo map(s): Grand Rapids East, MI (2023)
☐Aerial map
☒Map of photographs
☒Other: Previously Recorded Resources; Airport Changes

ii. **Site Photographs**

iii. **Describe the APE:**
There are two APEs: the Archaeological APE and the Built-Environment APE (see Appendix B: APE Map). The Archaeological APE is individually distinct from the Built-Environment APE, which considers a wider area for visual effects to historic properties as a result of construction of the proposed new ATCT, and to account for the FAA's vacation of the existing, historic-age ATCT.

The Archaeology APE is approximately 5 acres, is rectangular in shape, and consists of the construction limits of the proposed undertaking to account for physical effects to any potential archaeological resources.

The Built-Environment APE is 315.2 acres and consists of two discontiguous areas: one of 42.3 acres around the existing ATCT (west built-environment APE) that is entirely within airport property, and one of 272.9 acres at the location of the proposed new ATCT (east Built-Environment APE), 206.9 acres of which are located within airport property. The west Built-Environment APE consists of the entire Terminal Building (see Appendix C: Terminal Building Inventory Form), including all of the building's components (Primary Terminal Area, Tower, Concourses), as well as the adjacent non-historic age parking garage and glass canopy. Other elements of this west Built-Environment APE include part of the paved ramp and apron areas of the airport's airside, as well as the main drive leading to the Terminal Building (Terminal Drive SE) and small grassy areas at the airport's landside. Within the airport property, the east Built-Environment APE consists of five buildings associated with airport operations and private leased space, as well as runway and taxiway spaces, vehicular access roads, and grassy areas within airport property—all under 40 years of age. Outside of the airport property, the east Built-Environment APE includes Thornapple River Dr SE, a railroad, part of the eastbound lanes of I-96, and two industrial properties. None of the built-environment within the east Built-Environment APE is over 40 years of age.

iv. **Describe the steps taken to define the boundaries of the APE:**
The Archaeology APE consists of the construction limits of the proposed undertaking to account for physical effects to any potential archaeological resources. This includes 5 acres in the area of the proposed new ATCT.

The project involves FAA vacating the current ATCT and removing it from federal ownership. As such, the west Built-Environment APE is centered on the ATCT, with a buffer of 1,000 feet radiating in all directions to account for potential direct and visual (indirect) impacts of future project activities subsequent to FAA transfer of the ATCT to the airport. Historic-age buildings that overlap with the west Built-Environment APE were included in in their entirety. For the east Built-Environment APE, the boundary was delineated as 0.5-mile around the location of the proposed new ATCT to account for any potential visual (indirect) effects of the new tower.

V. IDENTIFICATION OF HISTORIC PROPERTIES

a. Scope of Effort Applied

i. **List sources consulted for information on historic properties in the project area** (including but not limited to SHPO office and/or other locations of inventory data).

Mead & Hunt, Inc. (Mead & Hunt) architectural historians examined current and historic aerial photographs to identify aboveground resources located within the Built-Environment APE. Mead & Hunt architectural historians then requested a records search from the Michigan State Historic Preservation Office (SHPO) to confirm whether any built resources within the project area had been previously surveyed. Additionally, Mead & Hunt searched for any identified locally designated historic resources in Cascade Township and Kent County for potential built-environment resources not identified in the SHPO records search results. See Appendix D: Previously Recorded Resources.

One resource was identified through the records request from SHPO that was identified to be located on the airport property: Michigan Douglas DC-3 Aircraft (Serial #2144). This resource was identified as having its location at the airport's physical address, with the latitude/longitude coordinates pointing to the center of the airport property. However, independent research and communications with the airport's operations division suggested the resource likely does not exist on the airport property, and if it does, it is located in a hangar operated by private tenants leasing airport land. If the latter is the case, the location of the resource could not be identified, but is confirmed to not be located within the Built-Environment APE.

Lawhon & Associates, Inc. completed an Archaeological Reconnaissance Survey Report of the Archaeology APE in September 2024 to identify potential belowground resources. No archeological resources were identified and no further work is recommended for archaeology. See the attached complete archaeology report and Phase I Survey results in Appendix F.

ii. Provide documentation of previously identified sites as attachments.

iii. **Provide a map** showing the relationship between the previously identified properties and sites, your project footprint and project APE.

iv. Have you reviewed existing site information at the SHPO: ☒Yes ☐ No

v. Have you reviewed information from non-SHPO sources: ☒Yes ☐ No

b. **Identification Results**

i. **Above-ground Properties**

A. **Are you submitting above-ground identification information?** ☒ Yes ☐ No

B. **If yes, please indicate level:**

☐ Literature Review ☐ Reconnaissance Survey Report ☒ Intensive Survey Report

C. **Total number of properties surveyed:** One (1)

D. **Total number of previously identified Historic Properties in your APE:** None (0)

E. **Total number of newly identified properties recommended eligible for listing in the National Register of Historic Places** None (0)

F. **Summarize, briefly, your findings for above-ground resources**.

While recording the airport as a historic district was considered, a majority of the buildings from the original construction of the airport are no longer extant (see Appendix E: Airport Changes). Due to these alterations over time, the airport does not convey a sense of time and place related to Jet Age transportation and architecture from its original construction. Therefore, the Terminal Building and associated Tower and Concourses are recorded as a singular resource. The Terminal Building was found to possess National Register of Historic Places (National Register) significance under Criterion C as a distinctive example of a Jet Age Terminal Building property type, with a period of significance of 1963. However, due to alterations, the building and its components are unable to demonstrate this significance, and therefore does not retain sufficient integrity. As such, the Terminal Building is recommended not eligible for listing in the National Register (see the inventory form in Appendix C for more information).

A previously recorded resource, Michigan Douglas DC-3 Aircraft (Serial #2144), was identified through a SHPO records request as having its location at the airport's physical address, with the latitude/longitude coordinates pointing to the center of the airport property. However, independent research and communications with the airport's operations division suggested the resource likely does not exist on the airport property, and if it does, it is located in a hangar operated by private tenants leasing airport land. If the latter is the case, the location of the resource could not be identified, but is confirmed to not be located within the Built-Environment APE.

G. **Attach the appropriate Michigan SHPO Architectural Identification Form for each resource or site 50 years of age or older in the APE.** Refer to the *Instructions for the Application for SHPO Section 106 Consultation Form* for guidance on this.

H. **Provide the name and qualifications of the person who made recommendations of eligibility for the above-ground identification forms.**

Name Brian Matuk **Agency/Consulting Firm:** Mead & Hunt, Inc.

Is the individual a 36CFR Part 61 Qualified Historian or Architectural Historian ☒ Yes ☐ No

Are their credentials currently on file with the SHPO? ☒ Yes ☐ No

If NO attach this individual's qualifications form and resume.

ii. **Archaeology**
Submit the following information using attachments, as necessary.

A. **Are you submitting archaeological information?** ☒ Yes ☐ No

B. **If yes, please indicate:** ☐ Assessment (Desktop Review) ☒ Archeological Report

C. **Width(s), length(s), and depth(s) of proposed ground disturbance(s):** Approximately 30-foot width, 30-foot length, and 5-foot depth

D. **Is a portion of the APE underwater?** ☐ Yes ☒ No
If the assessment did not include the underwater portions of the APE, please briefly justify:
Justification for not assessing the potential for submerged historic resources:

E. **Potential to adversely affect significant archaeological resources**:
☒ Low ☐ Moderate ☐ High

Is fieldwork recommended? ☐ Yes ☒ No
Briefly justify the recommendation:
The likelihood of encountering previously unrecorded archaeological resources is low. The Archaeological APE contains poorly drained soils, has been subjected to heavy disturbance related to the eastward expansion of the airport, and analysis of available historical maps and aerial photographs indicates that no buildings or structures have ever existed within it. Additionally, there are no previously recorded sites or resources located within or immediately adjacent to it. For more information, see Appendix F: GRR ATCT Phase I Archaeological Survey Report.

F. **Have you attached an Archaeological Sensitivity Map?** ☒ Yes ☐ No (see Appendix G: Archaeological Sensitivity Map)

G. **Summary of previously reported archaeological sites and surveys:**
The Archaeological APE has not been previously surveyed and there are no previously recorded sites or resources located within or immediately adjacent to it. A review of the contract CRM reports indicated a total of eight previously conducted surveys within the study radius. A review of the Michigan SHPO Architectural Properties database did not indicate any resources within the literature review study radius. There are also no National Register listings, nomination form files, or historic districts within the 2-kilometer literature review study radius.

H. **Summarize past and present land use:**
The Archaeological APE consisted primarily of undeveloped/agricultural land up through the mid-twentieth century until the establishment of Gerald R. Ford Airport, which began construction in 1959. The airport was known at the time as the Kent County Airport and it was relocated to its current location to increase capacity and meet the demands of the area. Construction of the new airport was finished in 1963, and it was renamed Kent County International Airport in 1977; by 1999, the name changed to its current appellation. The latter half of the twentieth and early twenty-first century saw major renovations and upgrades to the airport including new runways and facilities. The Archaeological APE was untouched by the ever-expanding airport until sometime between 1988 and 1999, when the entire area was completely graded and prepared for the construction of new roads, buildings, and fencing.

I. **If archaeological fieldwork has been conducted, please attach a copy of the report copy and provide full report reference here**:

Killion, R. A. (2024). *Phase I Archaeological Survey of 5 Acres (2 Hectares) for the Gerald R. Ford Airport Air Traffic Control Tower Relocation Project in Kent County, Michigan. Lawhon & Associates, Inc.*

J. **Provide the name and qualifications of the person who provided the information for the Archaeology section:**
Name: Ryan A. Killion, RPA **Agency/Firm:** Lawhon & Associates, Inc.
Is the person a 36CFR Part 61 Qualified Archaeologist? ☒ Yes ☐ No
Are their credentials currently on file with the SHPO? ☒ Yes ☐ No
If NO, attach this individual's qualifications form and resume.

Archaeological site locations are legally protected.
This application may not be made public without first redacting sensitive archaeological information.

VI. IDENTIFICATION OF CONSULTING PARTIES

a. **Provide a list of *all* consulting parties,** including Native American tribes, local governments, applicants for federal assistance/permits/licenses, parties with a demonstrated interest in the undertaking, and public comment:

- Ryan Schumaker, State Historic Preservation Officer, State Historic Preservation Office (300 North Washington Square, Lansing, MI 48913)
- Tony Duffiney, State Director, USDA – APHIS Wildlife Services (2803 Jolly Rd, Ste 100, Okemos, MI 48864)
- Jim Watling, Supervisor, EGLE, Water Resources Division, Transportation Review Unit (P.O. Box 30458, Lansing, MI 48909-7958)
- Charlie Simon, Chief, U.S. Army Corps of Engineers, Detroit District, Regulatory & Permits (477 Michigan Ave, Room 603, Detroit, MI 48226-2550)
- Thomas Civak, Regional Administrator, Federal Emergency Management Agency, Region 5 (536 South Clark St, 6th Fl, Chicago, Illinois 60605)
- Jean Gagliardo, District Conservationist, USDA, Natural Resource Conservation Service, Portage Service Center (5950 Portage Rd, Portage, MI 49002)
- Scott Hicks, Field Office Supervisor, US Fish and Wildlife – Michigan Field Office (2651 Coolidge Rd, Ste 101, East Lansing, MI 48823)
- Kenneth Westlake, Chief, EPA Region 5, NEPA Implementation Section (77 W Jackson Blvd, Chicago, IL 60604)
- Shannon Lott, Natural Resources Deputy, Michigan Department of Natural Resources, Executive Division (P.O. Box 30028, Lansing, MI 48909)
- Mark Washington, City Manager, Office of the City Manager, City of Grand Rapids (300 Monroe Ave NW, 6th Fl, Grand Rapids, MI 49503)
- Connie Bohatch, Community Development Director, City of Grand Rapids, 300 Monroe Ave NW, Ste 460, Grand Rapids, MI 49503)
- Kristin Turkelson, Planning Director, Planning Department, City of Grand Rapids (1120 Monroe Ave NW, 3rd Fl, Grand Rapids, MI 49503)
- Terry Schweitzer, Community Development Director, Planning Department, City of Kentwood (P.O. Box 8848, Kentwood, MI 49518)
- Lisa Golder, Economic Development Department Contact, Economic Development Office, City of Kentwood (P.O. Box 8848, Kentwood, MI 49518)

- Mary Mapes, President, Planning Commission, City of East Grand Rapids (750 Lakeside Dr SE, East Grand Rapids, MI 49506)
- George Davis, President, Zoning Board of Appeals, City of East Grand Rapids (750 Lakeside Dr SE, East Grand Rapids, MI 49506)
- Andera Hendrick, Community Planning & Development Director, Planning Department, Cascade Township (5920 Tahoe Dr SE, Grand Rapids, MI 49546-7123)
- Madison Smith-Jacoby, Zoning Administrator, Planning Department, Cascade Township (5920 Tahoe Dr SE, Grand Rapids, MI 49546-7123)
- Grace Lesperance, Supervisor, Cascade Township (5920 Tahoe Dr SE, Grand Rapids, MI 49546-7123)
- Walter Bujak, Commissioner, District 21 Commissioner, Kent County (300 Monroe Ave NW, Grand Rapids, MI 49503)
- Lisa Posthumus Lyons, County Clerk/Register, County Clerk, Kent County (300 Monroe Ave NW, Grand Rapids, MI 49503)
- James Williams, Chairman, Lac Vieux Desert Band of Lake Superior Chippewa of Michigan (P.O. Box 249, N4598 US Hwy 45, Watersmeet, MI 49969)
- Larry Romanelli, Ogema, Little River Band of Ottawa Indians (2608 Government Center Dr, Manistee, MI 49660)
- Regina Gasco-Bentley, Chairperson, Little Traverse Bay Bands of Odawa Indians (7500 Odawa Cir, Harbor Springs, MI 49740-9692)
- Gena Kakkak, Chairwoman, Menominee Indian Tribe of Wisconsin (W2908 Tribal Office Loop, Keshena, WI 54135)
- Douglas Lankford, Chief, Miami Tribe of Oklahoma (3410 P St, Miami, OK 74354)
- Ethel Cook, Chief, Ottawa Tribe of Oklahoma (13 South Highway 69a, Miami, OK 74354)
- Darrell Seki, Chairperson, Red Lake Band of Chippewa Indians, Minnesota (Hwy 1 East, 2400 Council Street, Red Lake, MN 56671)
- Aaron Payment, Chairperson, Sault-Ste. Marie Tribe of Chippewa Indians of Michigan (523 Ashman St, Sault St. Marie, MI 49783)
- Grand Rapids Historical Society (contacted via email: grhs.local@gmail.com; 111 Library St NE, 4th Fl, Grand Rapids, MI 49503-3268)

b. **Provide a summary of consultation with consultation parties:**
As part of early agency coordination, the project team solicited consulting parties to identify key issues that will need to be addressed during the National Environmental Policy Act (NEPA) process. See Attachment H: Consultation for correspondence documents described below.

Unless otherwise noted, letters dated April 29, 2024, were sent to representatives of Native American Tribes and government agencies listed above in Section V.a asking for comments on specific areas of concern/regulatory jurisdictions, specific benefits of the project for that party or to the public, any available technical information/data for the project site, and potential mitigation/permitting requirements for project implementation.

An email to the Grand Rapids Historical Society was sent on March 12, 2024, for additional historical information or concerns regarding the project's potential impacts to historical resources in the area. No response was received.

c. **Provide summaries of public comment and the method by which that comment was sought:**
Public comment was requested to be received through emails and letters to William Ballard, AICP of Mead & Hunt. See Attachment H: Consultation for associated public correspondence.

VII. DETERMINATION OF EFFECT

Guidance for applying the Criteria of Adverse Effect can be found in *the Instructions for the Application for SHPO Section 106 Consultation Form*.

a. **Basis for determination of effect**:

As the Terminal Building is not recommended eligible for listing in the National Register, it would not be considered a historic property under Section 106. As such, no historic properties were identified within the Archaeology APE or Built-Environment APE. Therefore, no historic properties will be affected as part of the proposed project.

b. **Determination of effect**

☒ **No historic properties will be affected**

☐ **Historic properties will be affected** and the project will (check one):

☐ have **No Adverse Effect** on historic properties within the APE.

☐ have an **Adverse Effect** on one or more historic properties in the APE and the federal agency, or federally authorized representative, will consult with the SHPO and other parties to resolve the adverse effect under 800.6.

☐ **More Information Needed:** We are initiating early consultation. A determination of effect will be submitted to the SHPO at a later date, pending results of survey.

Federally Authorized Signature:_____ Date:_____

Type or Print Name: ___

Title: _____

ATTACHMENT CHECKLIST

Identify any materials submitted as attachments to the form:

☒ Additional federal, state, local government, applicant, consultant contacts

☒ Maps of project location

Number of maps attached: One (1)

☒ Site Photographs

☒Map of photographs

☐ Plans and specifications

☐ Other information pertinent to the work description: Identify the type of materials attached

☐ Updated documentation of previously identified historic properties

☒ New Architectural Properties Identification Forms

☒ Map showing the relationship between identified historic properties, your project footprint, and project APE

☐ Above-ground qualified person's qualification form and resume

☐ Above-ground survey report

☒ Archaeological sensitivity map

☒ Archaeology survey report

☐ Archaeologist and Historian qualifications and resume- if not on file already.

☒ Other: Previously Recorded Resources Map; Airport Changes Map

Appendix A. Siting Report

Federal Aviation Administration

Gerald R. Ford International Airport
Grand Rapids, Michigan

Airport Traffic Control Tower
Siting Report

Engineering Service
Terminal Engineering Center

Developed by:
Scott Iwamoto, Lead Engineer

Effective Date: September 16, 2022

EXECUTIVE SUMMARY

The Federal Aviation Administration (FAA) representatives of the Central Service Area (CSA) and Gerald R. Ford International Airport (GRR) participated in the Air Traffic Control Tower (ATCT) siting activities virtually via Zoom. The team followed FAA Siting Order 6480.4B, Airport Traffic Control Tower Siting Processes to determine viable/preferred ATCT sites and the recommended site for a potential new ATCT at GRR.

A virtual AFTIL-1 was conducted on January 19, 21, and 27, 2021. During this virtual AFTIL-1, the team evaluated the Line of Site (LOS) for all of the preferred sites and identified the following three preferred sites: Site A, Site A1, and Site B. A Virtual Immersive Siting Tower Assessment (VISTA) siting was conducted on March 23–25, 2021. During that visit, a recommended site and two additional preferred sites were identified: Site B (recommended), Site A, and Site A1. To identify these sites, the team entered the model, scanned left to right in all quadrants of the airport. A virtual AFTIL-2 was conducted on May 5–7, 2021. During this virtual AFTIL-2, the team evaluated the LOS for all of the preferred sites and conducted a safety assessment on all sites. The preferred sites were confirmed as Site B (recommended), Site A, and Site A1, in that order.

Cost estimates and building sizes presented in this report are for planning and site selection purposes only.

The proposed action is to identify and reserve a location on the airport for a potential future replacement of the ATCT with a standard ATCT facility. The location of the proposed new tower is to the east of the existing ATCT on available land near other airport tenants. The tower shaft will be constructed of cast in place concrete, with a non-functional shaft and a 8-sided steel cab approximately 440 square feet in size. It is noted that Air Traffic prefers 30 degree glass and this will be discussed during design. The proposed Base Building is estimated at approximately 17,500 square feet. The proposed tower will facilitate a safe operating environment for aeronautical activity at GRR. The Recommended Site provides the best possible Air Traffic Control Specialist (ATCS) visibility of air traffic operations. Site B is the final recommended site.

Impacts

Site B increases all affected procedures CAT A/B circling MDA from 1260 to 1320. Site B must be marked and/or lighted in accordance with Advisory Circular 70/7460-1M. There are no other known impacts in terms of line of sight, NASWATCH, future airport development, and local weather phenomena with the potential to impair visibility.

APPROVAL AUTHORITIES

JOSEPH FIGLIUOLO III Digitally signed by JOSEPH FIGLIUOLO III
Date: 2022.12.21 12:21:35 -06'00'

Director of Air Traffic Services, Central Service Area

DOUGLAS E LOCKWOOD II Digitally signed by DOUGLAS E LOCKWOOD II
Date: 2022.12.21 10:48:59 -06'00'

Director of Technical Operations, Central Service Area

RANDALL D BURKE Digitally signed by RANDALL D BURKE
Date: 2023.01.10 06:27:26 -05'00'

Director of Air Traffic Control Facilities, FAA Headquarters

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1.0 PREFERRED SITES

1.1 Preferred Sites Aerial View

Figure 1. Preferred Sites Aerial View

1.2 Site Comparison Chart

Item Description	Site A1			Site A			Site B		
Recommended Site	Preferred #2			Preferred #3			Recommended		
Cab Floor Level (ft AGL)	156			165			185		
Cab Floor Level (ft AMSL)	938			947			968		
Eye-Level (ft AGL)	161			170			190		
Eye-Level (ft AMSL)	943			952			973		
Top of Tower (ft AGL)	191			200			220		
Top of Tower (ft AMSL)	973			982			1,003		
Estimated Ground Level (ft AMSL)	782			782			783		
Latitude	42°53'11.85"N			42°53'12.18"N			42°53'13.71"N		
Longitude	85°30'46.30"W			85°30'43.12"W			85°30'33.13"W		
Maximum Distance (to farthest point on all runways and taxi ways) (ft)	8,663			8,893			9,655		
2-Point Lateral Discrimination (Deg)	PASS			PASS			PASS		
Object Discrimination (Pass/Fail) Front View (Dodge Caravan)	FAIL			FAIL			FAIL		
Object Discrimination (Pass/Fail) Side View (Dodge Caravan)	PASS			PASS			PASS		
Object Discrimination (Pass/Fail) Front View (C-172)	PASS			PASS			PASS		
Line of Sight Angle of Incidence	PASS – 1.00			PASS – 1.03			PASS – 1.07		
ATCT Orientation Direction	WSW			WSW			WSW		
Access to ATCT Site (Yes or No)	Yes			Yes			Yes		
NASWATCH Issues	Yes			Yes			Yes		
TERPS Impacts	Yes			Yes			Yes		
14 CFR Part 77 Impacts	will be mitigated			will be mitigated			will be mitigated		
Environmental Issues	None			None			None		
ATCT Potential Impacts to Future & Existing Navaids	No			No			No		
Comparative Cost Estimate* ($100K per vertical foot)	$26,500,000			$27,500,000			$29,500,000		
Safety Assessment Initial Risk Ranking	**L**	**M**	**H**	**L**	**M**	**H**	**L**	**M**	**H**
	1	0	0	1	0	0	0	0	0
Safety Assessment Predicted Residual Risk Ranking	**L**	**M**	**H**	**L**	**M**	**H**	**L**	**M**	**H**
	1	0	0	1	0	0	0	0	0

* The comparative cost estimate is not for budgetary purposes; it is for site comparison purposes only.

1.3 Site A1

1.3.1 Description

Site A1 is located in the northeast quadrant of GRR. The site is located on airport property, east of Runway 17/35, north of Runway 8R/26L, and southeast of runway 8L/26R, just east of the Cassard Lane cul-de-sac. Air Traffic controllers will be primarily facing west southwest, toward the main terminal.

1.3.2 Site Reference Data

Site A1 is located at 42°53′11.85″N, 85°30′46.30″W with a cab floor height of 156 feet AGL. Refer to Paragraph 1.2, Site Comparison Chart, for additional site reference data.

1.3.3 Siting Criteria Evaluation

A. TERPS

Site A1 increases all affected procedures CAT A B circling MDA from 1260 to 1280 except those already at 1280.

- ILS or LOC RWY 8R: Penetrates zone 2 of the LOC missed approach 46.64 and requires a climb to altitude of 1100 but does not require change in DA.
- RNAV (GPS) RWY 26L: Penetrates the LNAV final, circling and missed approach causing the LNAV DA to remain at 1280 and becomes the controlling obstacle for the procedure.
- RNAV (GPS) RWY 26R: Penetrates LNAV VNAV final, missed approach area but does not raise the current DA of 1216. Penetrates the LNAV missed approach but does not raise the current MDA of 1280. Becomes controlling obstacle for the procedure.
- RNAV (GPS) RWY 17: Penetrates the LNAV final and raises the MDA from 1200 to 1240. Becomes the controlling obstacle for the procedure. NEU: 950
- ASR RWY 26L: Penetrates the missed approach surface and raises the MDA from 1100 to 1200 and becomes controlling obstacle. No Effect Height (NEH): 891.
- ASR RWY 26R: Penetrates the final surface area and becomes the controlling obstacle but does not change the MDA – remains at 1280. Stepdown MDA is 1180 with 1A accuracy code. NEH: 930

B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

Site A1 was not evaluated for Part 77 obstructions.

C. Impacts to Communications, Navigation and Surveillance Equipment (NASWATCH)

The Technical Operations Preliminary Report (TOPR) identified and analyzed the following facilities for potential impacts with the following results:

- GRR ASR-9 – Radar platform LOS is possible with positive elevation angle; Level 3 analysis needed
- DVS LOC 35 – Within Small Structure Protection Zone. Level 3 analysis needed
- CiRR LOC 26L – Within Large Structure Protection Zone. Level 3 analysis needed
- RR RCAG – No expected potential impacts
- GRR RTR – No expected potential impacts
- RR BUEC – No expected potential impacts

The predicted impacts to the nearby aviation facilities detailed in the Tech Ops Preliminary Report (TOPR) in Appendix J.

D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's Airport Traffic Control Visibility Analysis Tool (ATCVAT) to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site A1 passed all analyses and does not require any additional mitigation strategies. Refer to Appendix H for additional information.

E. Safety Assessment

The Safety Risk Management (SRM) Panel identified one Low Level Hazard for Site A1 in relation to Taxiway V from the Ground Control position. Refer to Appendix K for the full report.

F. Operational Requirements

1. ATCT Orientation: West southwest
2. Weather: Ceilings and visibility do not impact the determination of the ATCT height.
3. Look-Down Angle: The look-down angle at Site A1 is adequate to see all movement areas of the airport.
4. Look-up Angle: The look-up LOS in the cab is adequate to see all necessary areas.
5. Look-Across LOS: The look-across LOS in the cab raised concern to see all movement areas. Specifically, the ground control position has limited visibility of Taxiway V east of Taxiway K.

6. Cab Mullion/Column Orientation: A 440 square feet cab layout with mullions, as well as a cab layout using 4 columns options, were considered during the siting process. Air Traffic preferred the use of 2 larger columns on the east side of the cab and 2 smaller columns on the west side of the cab. The column obstructions are easily mitigated by a person moving left or right to see around them. Additionally, the walls along the cab stairs on the east side of the cab, which are required for fall protection, are not a visual concern.

7. Construction: No impacts are expected with construction of a new ATCT at Site A1.

8. Access: Access to Site A1 will not cross any movement areas and is not on the air operations area. No issues with site access were identified.

9. Non-Movement Areas: No issues were identified in regard to non-movement areas.

10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.

11. Rotating Beacon: The Airport Authority will relocate or shield the existing beacon.

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to Appendix B for a detailed cost estimate.

H. Environmental

No Recognized Environmental Conditions (RECs) were identified at proposed Site A1. However, it should be noted that elevated levels of lead have been previously identified in the groundwater in the local area. All of the requirements of FAA Order 6480.4B and FAA Order 1050.19C have been completed based on the findings in the Phase I ESAs and the recommendations and review of the Technical Reviewer. Refer to Appendix G for the complete Phase 1 Environmental Site Assessment (ESA).

1.4 Site A

1.4.1 Description

Site A is located in the Northeast quadrant of the airport. The site is located on airport property, east of Runway 17/35, north of Runway 8R/26L, and southeast of Runway 8L/26R, between Cargo Drive and Cassard Lane. Air Traffic controllers will be primarily facing west southwest, toward the main terminal.

1.4.2 Site Reference Data

Site A is located 42°53′12.18″N, 85°30′43.12″W with a cab floor height of 165 feet AGL. Refer to Paragraph 1.2, Site Comparison Chart, for additional site reference data.

1.4.3 Siting Criteria Evaluation

A. TERPS

Site A increases all affected procedures CAT A/B circling MDA from 1260 to 1300. NEH: 960

- ILS or LOC RWY SR: Penetrates zone 2 of the LOC missed approach 49.5' and requires a climb to altitude of 1100 but does not require change in DA.
- RNAV (GPS) RWY 17: Penetrates LNAV final, circling and missed approach causing the LNAV MDA to increase from 1200 to 1240. Becomes the controlling obstacle for the procedure. NEH: 950.
- RNAV (GPS) RWY 26R: Penetrates LNAV/VNAV final/missed approach area but doesn't raise the current DA of 1216. Penetrates the LNAV missed approach but does not raise the current MDA of 1280. Becomes controlling obstacle for the procedure.
- ASR RWY 26L: Penetrates the missed approach surface and raises the MDA from 1100 to 1220 and becomes controlling obstacle. NEH: 885.
- ASR RWY 26R: Penetrates the final surface area and becomes the controlling obstacle but doesn't change the MDA remains at 1280. Stepdown MDA is 1180 with 1A. NEH: 885
- VOR RWY 17: Penetrates the missed approach surface area and increases the MDA from 1200 to 1220. NEH: 982.

B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

Site A was not evaluated for Part 77 obstructions.

C. Impacts to Communications, Navigation and Surveillance Equipment (NASWATCH)

The TOPR identified and analyzed the following facilities for potential impacts with the following results:

- GRR ASR-9 – Radar platform LOS is possible with positive elevation angle; Level 3 analysis needed
- DVS LOC 35 – Within Small Structure Protection Zone. Level 3 analysis needed
- CiRR LOC 26L – Within Large Structure Protection Zone. Level 3 analysis needed
- RR RCAG – No expected potential impacts

- GRR RTR – No expected potential impacts
- RR BUEC – No expected potential impacts

The predicted impacts to the nearby aviation facilities detailed in the Tech Ops Preliminary Report (TOPR) in Appendix J.

D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's ATCVAT to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site A passed all analyses and does not require any additional mitigation strategies. Refer to Appendix H for additional information.

E. Safety Assessment

The Safety Risk Management (SRM) Panel identified one Low Level Hazard for Site A in relation to Taxiway V from the Ground Control position. Refer to Appendix K for the full report.

F. Operational Requirements

1. ATCT Orientation: West southwest.
2. Weather: Ceilings and visibility do not impact the determination of the ATCT height.
3. Look-Down Angle: The look-down angle at Site A is adequate to see all movement areas of the airport.
4. Look-Up Angle: The look-up LOS in the cab is adequate to see all necessary areas.
5. Look-Across LOS: The look-across LOS in the cab raised concern to see all movement areas. Specifically, the ground control position has limited visibility of Taxiway V east of Taxiway K.
6. Cab Mullion/Column Orientation: A 440 square feet cab layout with mullions, as well as a cab layout using 4 columns options, were considered during siting process. Air Traffic preferred the use of 2 larger columns on the east side of the cab and 2 smaller columns on the west side of the cab. The column obstructions are easily mitigated by a person moving left or right to see around them. Additionally, the walls along the cab stairs on the east side of the cab, which are required for fall protection, are not a visual concern.
7. Construction: No impacts are expected with construction of a new ATCT at Site A.
8. Access: Access to Site A will not cross any movement areas and is not on the air operations area. No issues with site access were identified.
9. Non-Movement Areas: No issues were identified in regard to non-movement areas.

10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.

11. Rotating Beacon: The Airport Authority will relocate or shield the existing beacon.

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to Appendix B for a detailed cost estimate.

H. Environmental

No RECs were identified at proposed Site A. However, it should be noted that elevated levels of lead have been previously identified in the groundwater in the local area. All of the requirements of FAA Order 6480.4B and FAA Order 1050.19C have been completed based on the findings in the Phase I ESAs and the recommendations and review of the Technical Reviewer. Refer to Appendix G for the complete Phase 1 ESA.

1.5 Site B

1.5.1 Description

Site B is located in the northeast quadrant of the airport. The site is located on airport property, east of Runway 17/35, north of Runway 8R/26L, and southeast of runway 8L/26R, just west of Cargo Drive. Air Traffic controllers will be primarily facing west southwest, toward the main terminal.

1.5.2 Site Reference Data

Site B is located 42°53′13.71″N, 85°30′33.13″W with a cab floor height of 185 feet AGL. Refer to Paragraph 1.2, Site Comparison Chart, for additional site reference data.

1.5.3 Siting Criteria Evaluation

A. TERPS

Site B increases all affected procedures CAT A/B circling MDA from 1260 to 1320.

- ILS or LOC RWY 8R: Penetrates zone 2 of the LOC missed approach 37.3' and requires a climb to altitude of 1100/1120 but does not require change in DA.
- RNAV (GPS) RWY 17 penetrates LNAV final, circling and missed approach causing the LNAV MDA to increase from 1200 to 1240/1260. Becomes the controlling obstacle for the procedure.
- RNAV (GPS) RWY 26L penetrates LNAV/VNAV missed approach area and raises the DA from 1114 to 1120/1164.

Refer to Appendix F for additional information.

B. 14 CFR Part 77, Obstruction Evaluation/Airport Airspace Analysis (OE/AAA) requirements

Site B must be marked and/or lighted in accordance with (NAVAIDS and associated objects) Chapters 3, 4, and 5 of Advisory Circular 70/7460-1M, Obstruction Marking and Lighting. Refer to Appendix F for additional information.

C. Impacts to Communications, Navigation and Surveillance Equipment (NASWATCH)

No NASWATCH impacts were identified for Site B. Refer to Appendix F for additional information.

D. Visibility Performance Requirements

A visibility siting requirements analysis was conducted using the FAA's ATCVAT to address the unobstructed view, object discrimination, and LOS angle of incidence requirements. Site B passed all analyses and does not require any additional mitigation strategies. Refer to Appendix H for additional information.

E. Safety Assessment

The SRM Panel identified no hazards for Site B. Refer to Appendix K for the full report.

F. Operational Requirements

1. ATCT Orientation: West southwest.
2. Weather: Ceilings and visibility do not impact the determination of the ATCT height.
3. Look-Down Angle: The look-down angle at Site B is adequate to see all movement areas of the airport.
4. Look-Up Angle: The look-up LOS in the cab is adequate to see all necessary areas.
5. Look-Across LOS: The look-across LOS in the cab raised no concerns to see all movement areas.
6. Cab Mullion/Column Orientation: A 440 square feet cab layout with mullions, as well as a cab layout using 4 columns options, were considered during the siting process. Air Traffic preferred the use of 2 larger columns on the east side of the cab and 2 smaller columns on the west side of the cab. The column obstructions are easily mitigated by a person moving left or right to see around them. Additionally, the walls along the cab stairs on the east side of the cab, which are required for fall protection, are not a visual concern.
7. Construction: No impacts are expected with construction of a new ATCT at Site B. Prior to commencement of any excavation, proponent must coordinate all project work in the vicinity of underground power utility and communication cables as soon as possible, preferably a minimum of 3 weeks in advance of project start, with the

local Tech Ops. Contact the ATCT Watch Supervisor prior to the crane(s) being raised for purposes of establishing a procedure to have the crane(s) immediately lowered upon request of the ATCT. When the crane(s) is no longer needed and has been permanently lowered, contact the ATCT and log back into the registered E-file account to provide the Flight Data Center (FDC) with notification that the NOTAM can be cancelled.

8. Access: Access to Site B will not cross any movement areas and is not on the air operations area. No issues with site access were identified.

9. Non-Movement Areas: No issues were identified in regard to non-movement areas.

10. Cab Size Evaluation: A space study was conducted in a 440 sf cab. No issues were identified.

11. Rotating Beacon: The Airport Authority will relocate or shield the existing beacon.

G. Economic Considerations

Consideration was given to economic factors when evaluating ATCT sites. Refer to Appendix B for a detailed cost estimate.

H. Environmental

No RECs were identified at proposed Site B. However, it should be noted that elevated levels of lead have been previously identified in the groundwater in the local area. All of the requirements of FAA Order 6480.4B and FAA Order 1050.19C have been completed based on the findings in the Phase I ESAs and the recommendations and review of the Technical Reviewer. Refer to Appendix G for the complete Phase 1 ESA.

2.0 FINAL SITE RECOMMENDATION

Site B is the final recommended site for the replacement ATCT at GRR. Site B is located at latitude 42°53′13.71″N and longitude 85°30′33.13″W with an eye level height of 190 feet AGL / 973 feet AMSL. GRR ATC explained that Site B provides a more effective and wide open view of the airport with no LOS issues. Site A and Site A1 presented difficulty in seeing a portion of Taxiway V from the Ground Control location in the ATCT cab and required a wider scanning of airport in order to provide both Local and Ground Control duties.

Figure 2. Recommended Site – Site B

3.0 CAB SIZE AND ORIENTATION

Eight (8) sided 440 sf cab facing west southwest. See Figure 3 for cab orientation.

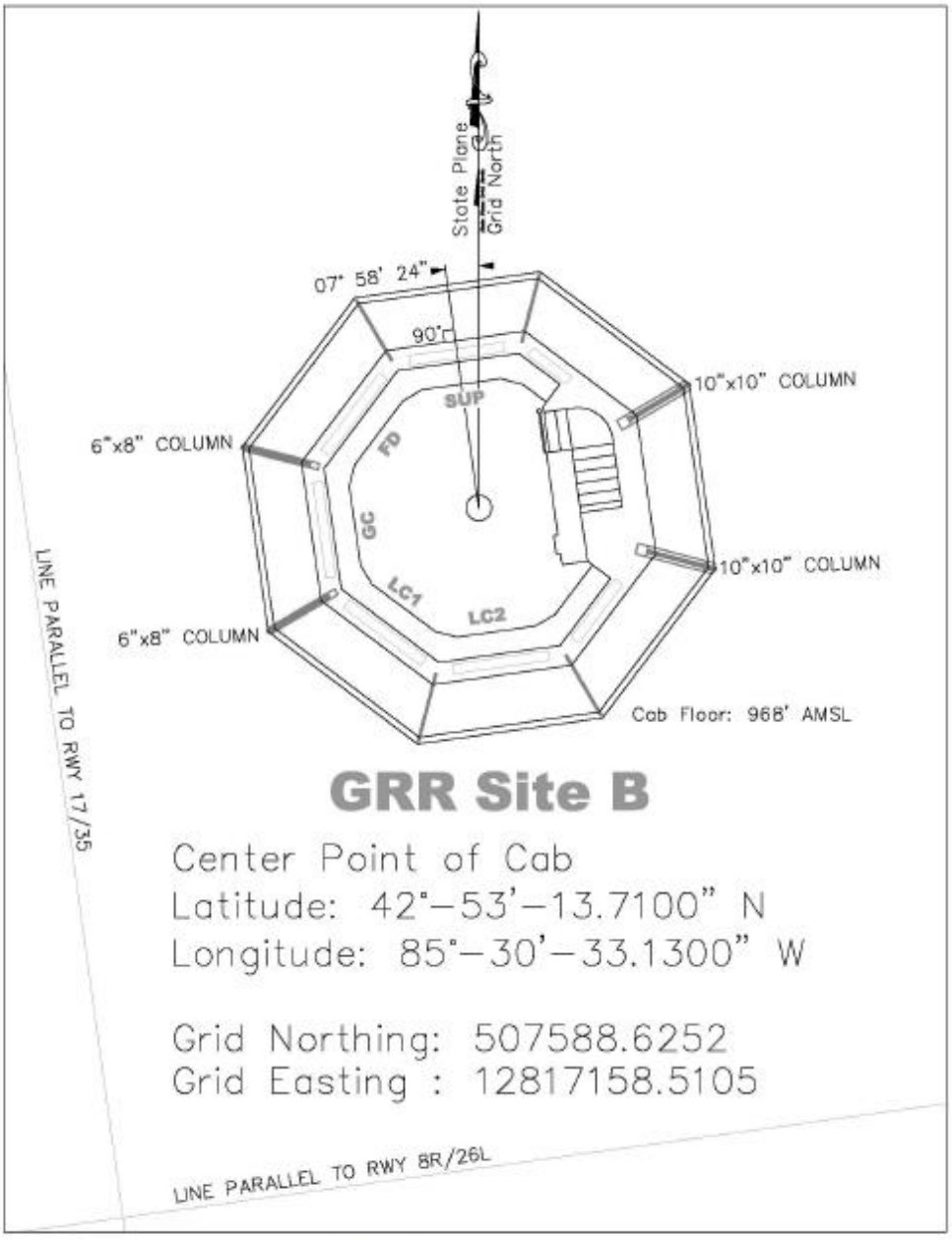


Figure 3. Site B Cab Orientation

4.0 SUPPLEMENTAL INFORMATION

Appendix A – Airport Concurrence Letter

Appendix B – Cost Estimate

Appendix C – All Sites Evaluated

Appendix D – Panoramic Views

Appendix E – Drawings (Cab Layout, Airport Layout Plan, Cab Structures, Airport Cable Drawings)

Appendix F – Obstruction Evaluations/Airport Airspace Analysis (OE/AAA)

Appendix G – Environmental Documentation

Appendix H – Traffic Control Visibility Analysis Tool (ATCVAT)

Appendix I – Servicing Security Element

Appendix J – Meeting Minutes and Other Pertinent Information

Appendix K – Safety Risk Management Document

Appendix L – Siting Report Amendments

Appendix A – Airport Concurrence Letter

Refer to the Knowledge Sharing Network (KSN) for the Airport Concurrence Letter.

Appendix B – Cost Estimate

Refer to the KSN for the comparative cost estimates.

Appendix C – All Sites Evaluated

Refer to Section 1.2 for site comparison data.

Site A1

A. Control positions were depicted.

B. Rotation of the Air Traffic Control cab was provided to allow for an optimal view of the airport from each control position.

C. Zachary Elker and David Lachniet, representing the Air Traffic Controllers at GRR, verified their locations with Ground Control facing West South West towards the main terminal.

D. Two differing angles of glass were presented, 15 and 30 degree. A standard cab was normally designed with 30 degree glass. The difference in look up ceiling coverage from the Ground Control position perspective were presented. The difference was explained as one and a half to two and a half feet distance looking upward one way. Craig Morton, representing Tech Ops, stated 30 degree glass will work better for communications. The Controllers stated their preference for 30 degree glass.

E. Locations, types and sizes of columns/mullions were depicted for Site A1 but, changes were made to coincide with updated information. The Controllers confirmed these changes as having optimal view from each control position. Load factors, especially concerning snow fall, were discussed.

F. 360 degree rotational view of the airport from Ground Control position was provided. The Controllers questioned the height of the ledge, with special concern on the east side of the cab behind the stairwell.

G. Key points on the airport were examined for optimal visibility. The Controllers had good view of runway ends and intersections, approach and departure paths, taxiways and their current Hot Spots. Line of sight (LOS) issues, developed from previous meetings, were reviewed from the Local Control 1, Ground Control and Flight Data positions. There were LOS issues identified with a portion of TWY L and TWY V.

H. A Safety Assessment was performed for interior and exterior physical barriers. The Controllers determined a LOS issue with TWY V as a hazard and will be analyzed through the Hazardous Analysis Worksheet (HAW) to determine any risk introduced into the system.

Site A

A. The Tower Viewer of Site A from an outside the cab to an inside the cab view was presented. Control positions were depicted as per previous meetings. Rotation of the Air Traffic Control cab was provided to allow for an optimal view of the airport from each

control position. Zachary Elker and David Lachniet, representing the Air Traffic Controllers at GRR, verified their locations with Ground Control facing West South West towards the main terminal.

B. A 360 degree rotational view of the airport from Ground Control position was provided. Key points on the airport were examined for optimal visibility. The Controllers had good view of runway ends and intersections, approach and departure paths, taxiways and their current Hot Spots. LOS issues, developed from previous meetings , were reviewed from the Local Control 1, Ground Control and Flight Data. There were LOS issues identified with a portion of TWY L and TWY V. GRR ATC commented to mitigate this LOS issue, it would be necessary to GC to LC 2 position but that would situate the Controllers "on top of each other."

C. Depictions of the locations, types and sizes of columns/mullions were the same as depicted for Site A1. The Controllers confirmed this depiction as having optimal view from each control position.

D. Questions concerning the depth of slat wall construction and writing surfaces were addressed.

E. A Safety Assessment for interior and exterior physical barriers was performed. The Controllers determined a LOS issue with TWY V as a hazard and will be analyzed through the HAW to determine any risk introduced into the system.

Site B

A. The Tower Viewer of Site B was presented from an outside the cab to an inside the cab view. Control positions were depicted as per previous meeting. Rotation of the Air Traffic Control cab was provided to allow for an optimal view of the airport from each control position. Zachary Elker and David Lachniet, representing the Air Traffic Controllers at GRR, verified their locations with GC facing West South West towards the main terminal.

B. A 360 degree rotational view of the airport from both GC and LC 1 positions were provided. Key points on the airport were examined for optimal visibility. The Controllers had good view of runway ends and intersections, approach and departure paths, taxiways and their current Hot Spots. LOS issues, developed from previous meetings, were reviewed from the Local Control 1, Ground Control and Flight Data. Zachary Elker and David Lachniet commented on this proposed sites view, with everything in front of them.

C. Depictions of the locations, types and sizes of columns/mullions were the same as depicted for Site A1. The Controllers confirmed this depiction as having optimal view from each control position.

D. A Safety Assessment for interior and exterior physical barriers was performed. No hazards were found.

E. The SRM facilitator processed the LOS issue with TWY V through the HAW. Zachary Elker and David Lachniet, representing the Air Traffic Controllers at GRR, participated and determined the LOS issue, for both Site A1 and Site A, to produce a Low Level residual risk, with a minimal severity and a remote likelihood.

Recommended Site

A. Zachary Elker and David Lachniet discussed preferences of the three proposed sites.

B. The National Coordinator reviewed the GRR ATC findings. Site B was determined to be the recommended site. Site B provided the best view of the airport with everything in front of them. Site A1 and Site A were determined as successive recommendations.

C. Zane Edwards provided verification of column dimensions.

Physical Mockup

A. A physical mockup of a 440 square foot ATCT cab was presented with current GRR ATCT equipment located at standard positions. Each position was reviewed and realigned for optimal equipment placement as determined by GRR ATC. Future upgraded equipment was explored. Writing surface dimensions were discussed for both the Flight Data and Supervisor positions.

B. The pros and cons of the three different type consoles (Russ-Bassett, Evans new construction and Evans re-model construction) were reviewed.

C. A full size, scale mockup of the 440 square foot ATCT cab was constructed at the airport for local ATC review for space planning, and for utilization with 3D goggles.

Appendix D – Panoramic Views

Refer to the KSN for panoramic views of Site A, Site A1 and Site B.

Appendix E – Drawings (Cab Layout, Airport Layout Plan, Cab Structures, Airport Cable Drawings)

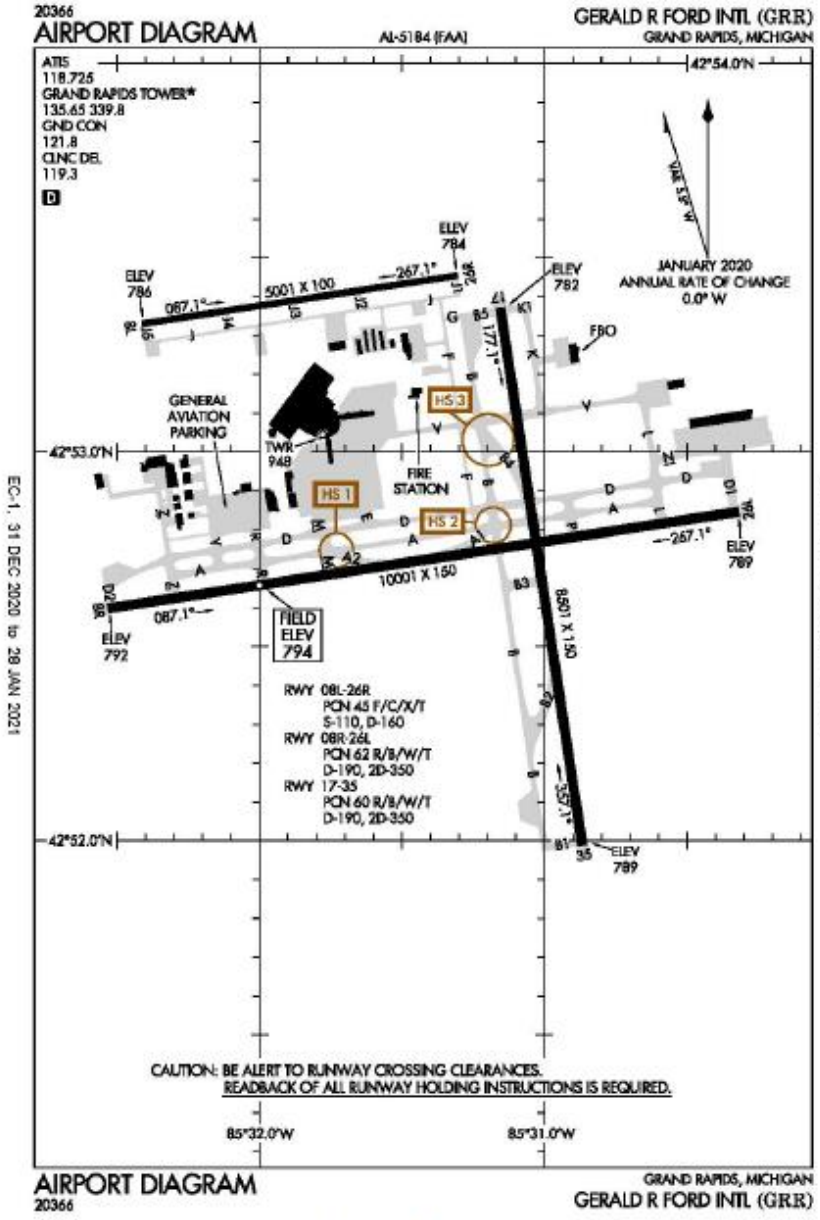


Figure E-1. GRR Airport Diagram

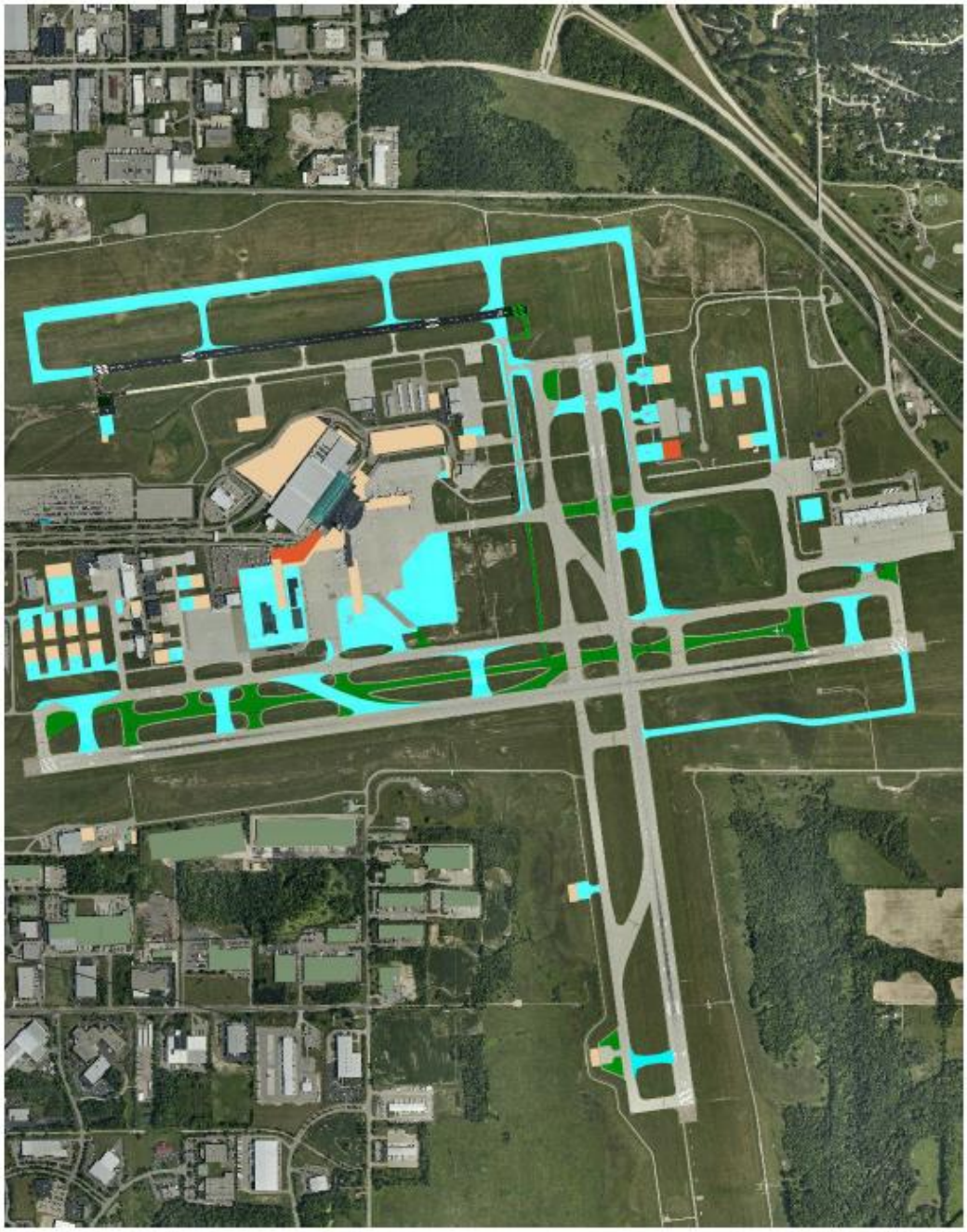


Figure E-2. GRR Aerial View

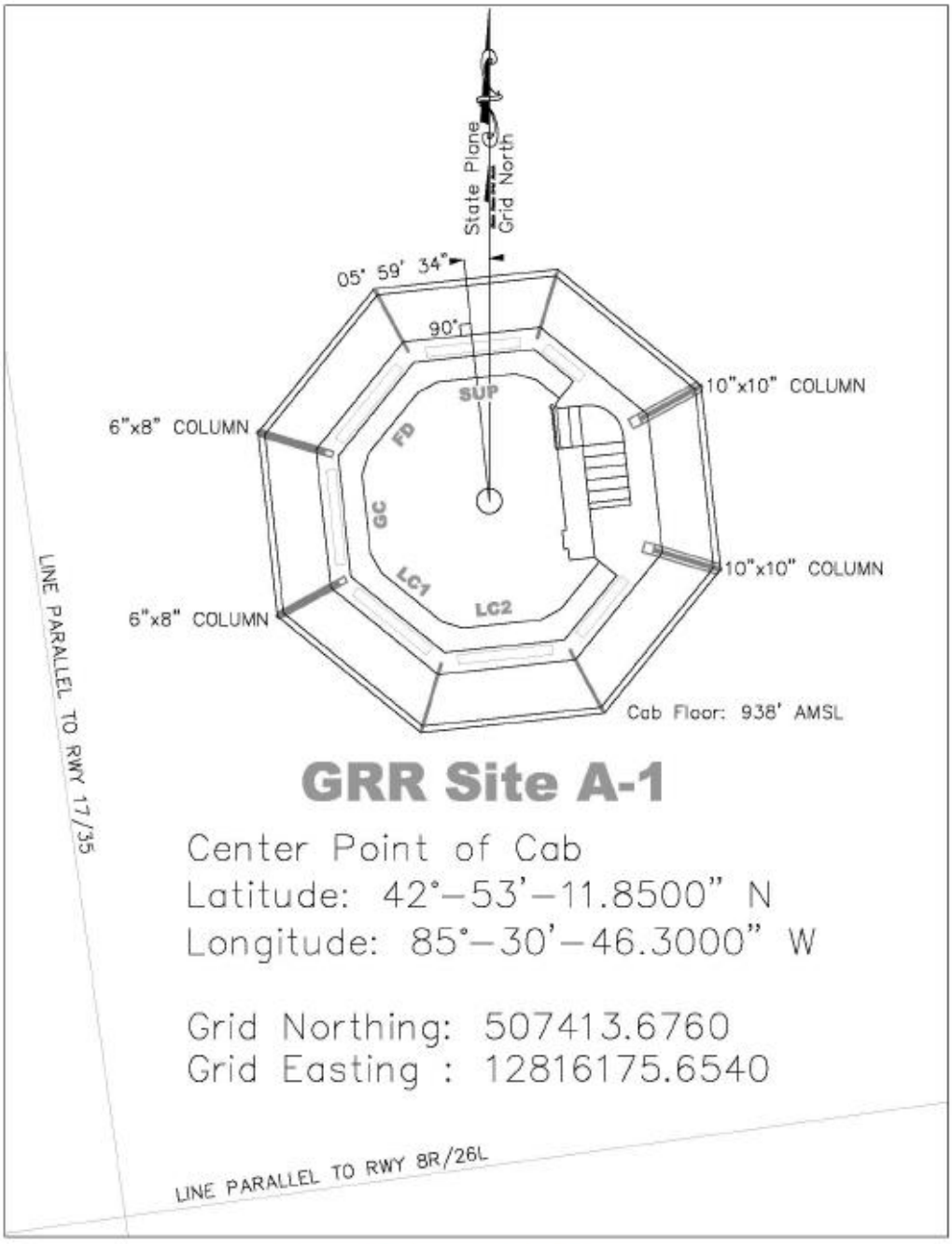


Figure E-3. Site A1 Cab Orientation

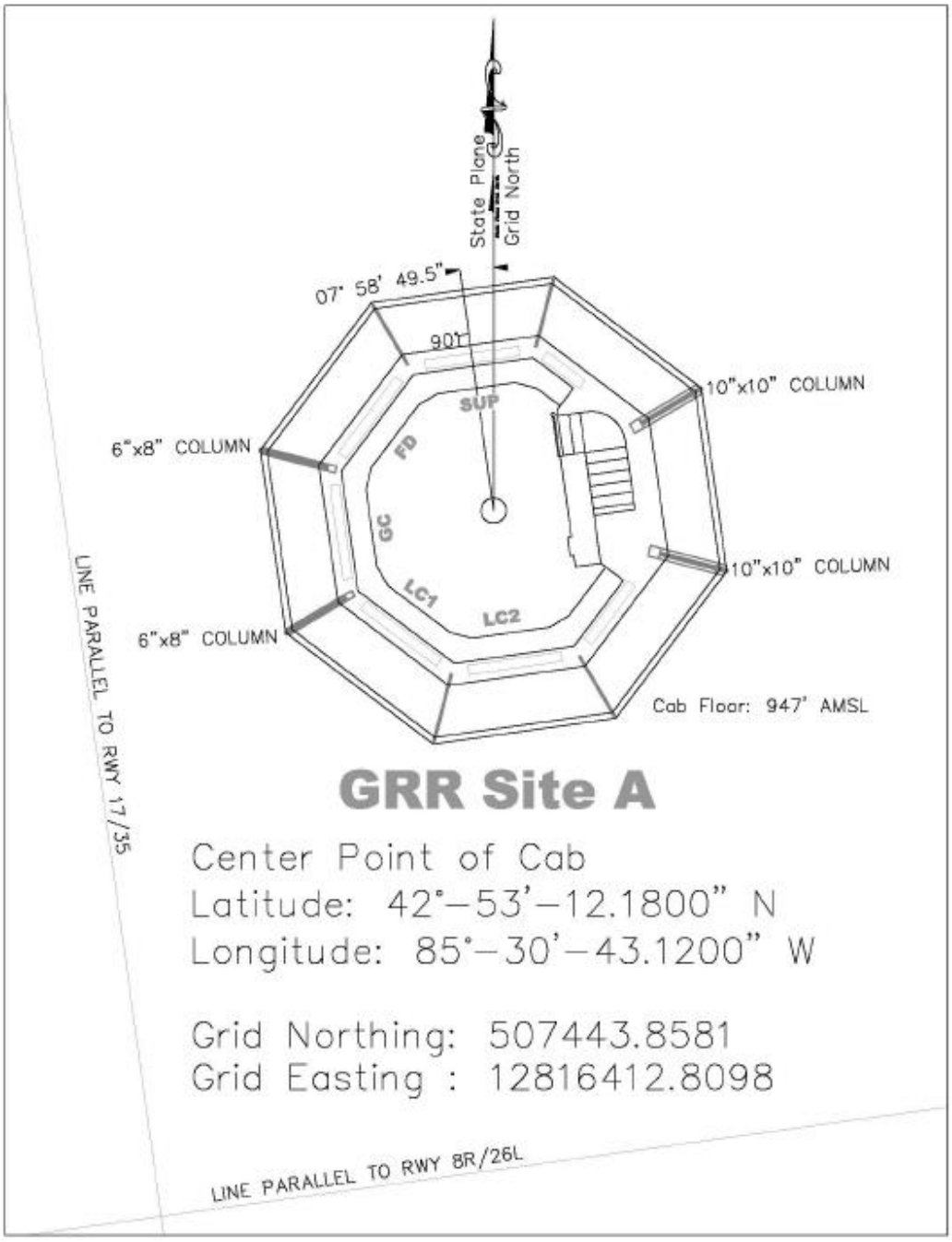


Figure E-4. Site A Cab Orientation

Appendix F – Obstruction Evaluations/Airport Airspace Analysis (OE/AAA)

Refer to the KSN for the final determination letter for Site B.

Appendix G – Environmental Documentation

Refer to the KSN for the Site B, Site A, and Site A1 Phase I ESA.

Appendix H – Air Traffic Control Visibility Analysis Tool (ATCVAT)

Refer to the KSN for the ATCVAT results.

Appendix I – Servicing Security Element

Security protective measures are based on a Facility Security Level (FSL) 2 Critical Infrastructure CI site per FAA Order 1600.69 and AXF Guidance Memorandum AXF-2021-T-01A, dated 02/18/2022. Contact Technical Operations – Facilities & Engineering Services for additional information.

Appendix J – Other Pertinent Information

Refer to the KSN for meeting minutes.

Validation of Airport Model

ISO

CUSTOMER VALIDATION STATEMENT

Statement: I validate the following items are usable for control tower siting activities or operational assessments.

Airport/Project Name: Gerald R. Ford International Airport (GRR)

This section to be completed during AFTIL Trip-1 or operational assessments

1. **Airport 2-D Files** (i.e. AFTIL Simulation Specialist)

Signature: _____

Organization: ANG E-18 **Date:** January 19, 2021

2. **Airport 3-D Model** (i.e. Airport Authority)

Signature: _____ Casey Rios

Organization: Gerald R. Ford Int'l Airport Authority **Date:** January 19, 2021

3. **Airport Simulations Files** (i.e. Air Traffic Manager)

Signature: _____ Zachary Elker

Organization: GRR ATCT **Date:** January 19, 2021

This section to be completed for AFTIL Trip-2 activities only.

4. **Control Tower Cab Model** (i.e. Project Engineer)

Signature: _____

Organization: _____ **Date:** _____

QR-AFTIL-005, Effective 8/24/12

Memo of Record

Memo of Record
Gerald R. Ford International Airport (GRR)
Preferred Sites for a New
Airport Traffic Control Tower (ATCT)

The Virtual GRR AFTIL-1 Tower Siting Team Members concur with the following sites:

Item Description	Site A1	Site A	Site B
Eye-Level (ft. AGL)	161	170	190
Eye-Level (ft. AMSL)	943	952	973
Top of Tower (ft. AGL)	191	200	220
Top of Tower (ft. AMSL)	973	982	1,003
Cab Floor Level (ft. AGL)	156	165	185
Estimated Ground Level (ft. AMSL)	782	782	783
Latitude	42°53'11.85"N	42°53'12.18"N	42°53'13.71"N
Longitude	85°30'46.30"W	85°30'43.12"W	85°30'33.13"W
Maximum Distance (to farthest point on all runways and taxi ways) (ft.)	8,663	8,893	9,655

SCOTT T IWAMOTO Digitally signed by SCOTT T IWAMOTO Date: 2021.02.01 13:08:32 -06'00'

Scott T. Iwamoto — Date
AJW Technical Operations, Engineering Services, Lead Engineer

Casey Ries Digitally signed by Casey Ries Date: 2021.02.01 14:55:50 -05'00'

Casey Ries — Date
GRR Airport Authority, Engineering and Planning Director

ZACHARY R ELKER Digitally signed by ZACHARY R ELKER Date: 2021.02.02 07:38:07 -05'00'

Zachary Elker — Date
GRR Air Traffic Manager (ATM)

David S Lachniet Digitally signed by David S Lachniet Date: 2021.02.02 08:39:58 -05'00'

David Lachniet — Date
GRR Local National Air Traffic Controllers Association (NATCA) Representative

WILLIAM E PRICE JR Digitally signed by WILLIAM E PRICE JR Date: 2021.02.02 11:35:26 -05'00'

Bill Price — Date
AJW-2431 Airport Traffic Control Facilities Planning, Central Service Area Lead

David Lawrence AILES Digitally signed by David Lawrence AILES Date: 2021.02.03 13:08:03 -05'00'

David Ailes — Date
ANG-E18 Safety Management System (SMS) Facilitator

TERENCE D MOORE Digitally signed by TERENCE D MOORE Date: 2021.02.03 13:35:47 -05'00'

Terence D. Moore — Date
ANG-E18 Airport Facilities Terminal Integration Laboratory (AFTIL)
Tower Siting National Coordinator

January 27, 2021

Appendix K – Safety Risk Management Document

Refer to the KSN for the full safety analysis.

Appendix L – Siting Report Amendments

Not applicable.

Appendix B. Location and Area of Potential Effect Maps

Location Map

Grand Rapids East, MI (2023) USGS Quad

- Project footprint (current and proposed ATCT)
- Built-Environment APE
- Archaeology APE

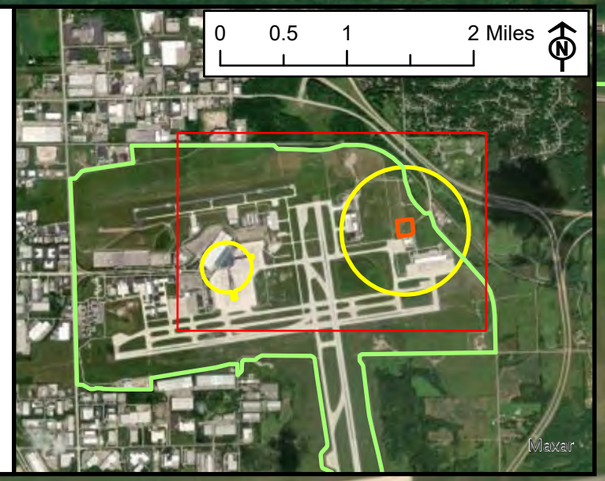
Area of Potential Effects (APE) Map

- Built-Environment APE
- Archaeology APE
- Proposed new ATCT
- Airport Boundary

Terminal Building Components

- Primary Terminal Area
- Concourse A
- Tower (Project footprint)
- Concourse B

0 500 1,000 2,000 Feet



Perimeter Rd SE
Cassard Dr SE
Old Thornapple River Dr SE
Air Cargo Dr SE
Thornapple River Dr SE
Chesapeake and Ohio Railroad
Cascade Recreation Park
96
HH
Gateway Dr SE
44th St SE
Terminal Dr SE
Freight Dr
Gerald R. Ford International Airport

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Appendix C. Terminal Building Inventory Form

Michigan SHPO Architectural Properties Identification Form

Property Overview and Location

Street Address	5500 44th Street SE				
City/Township, State, Zip Code	Cascade Township, Michigan, 49512				
County	Kent County				
Assessor's Parcel #	41-19-20-300-021				
Latitude/Longitude (to the 6th decimal point)	Lat: 42.884140	Long: -85.529572			
Ownership	Private ☐	Public-Local ☒	Public-State ☐	Public-Federal ☒	Multiple ☒

Property Type

Building ☒ select sub-type below Commercial ☒ Residential ☐ Industrial ☐ Other ☐	Structure ☐ Object ☐

(Insert primary photograph below.)

Architectural Information

Construction Date	1963	
Architectural Style	Modern	
Building Form	Various	
Roof Form	Various	
Roof Materials	Various	
Exterior Wall Materials	Various	
Foundation Materials	Poured concrete	
Window Materials	Various	
Window Type	Various	
Outbuildings	Yes ☒	No ☐
Number/Type:	Other airport buildings on property	

Eligibility

Individually Eligible	Criterion A ☐	Criterion B ☐	Criterion C ☐	Criterion D ☐
Criteria Considerations:		a. ☐ b. ☐ c. ☐ d. ☐ e. ☐ f. ☐ g. ☐		
Component of a Historic District	Contributing to a district ☐	Non-contributing to a district ☐	Historic District Name:	
Not Eligible ☒				

Area(s) of Significance	Criterion C: Jet Age Terminal Building property type					
Period(s) of Significance	1963					
Integrity – Does the property possess integrity in all or some of the 7 aspects?						
Location ☒	Design ☐	Materials ☐	Workmanship ☐	Setting ☒	Feeling ☐	Association ☒
General Integrity:	Intact ☐	Altered ☒	Moved ☐	Date(s): c.1975,1977,c.1985,c.1990,2006,2013,2016		
Historic Name	Kent County Airport Terminal Building					
Current/Common Name	Gerald R. Ford International Airport Terminal Building					
Historic/Original Owner	Kent County					
Historic Building Use	Airport terminal building					
Current Building Use	Airport terminal building					
Architect/Engineer/Designer	J. & G. Daverman					
Builder/Contractor	Barnes Construction Company					

Survey Date	05/01/2024	Recorded By	Brian Matuk, Mead & Hunt	Agency Report #	

For SHPO Use Only	SHPO Concurrence?: Y / N	Date:

Narrative Architectural Description

Provide a detailed description of the property, including all character defining features and any accessory resources.

The Terminal Building is the primary building in the cluster of public commercial flight facilities at the Gerald R. Ford International Airport. It has an irregular shape that can be loosely categorized by four main areas, as shown in Figure 1: Primary Terminal Area, Air Traffic Control Tower (ATCT; Tower), Concourse A, and Concourse B. While the design of the Primary Terminal Area and the Tower are integrated, they are described separately for clarity.

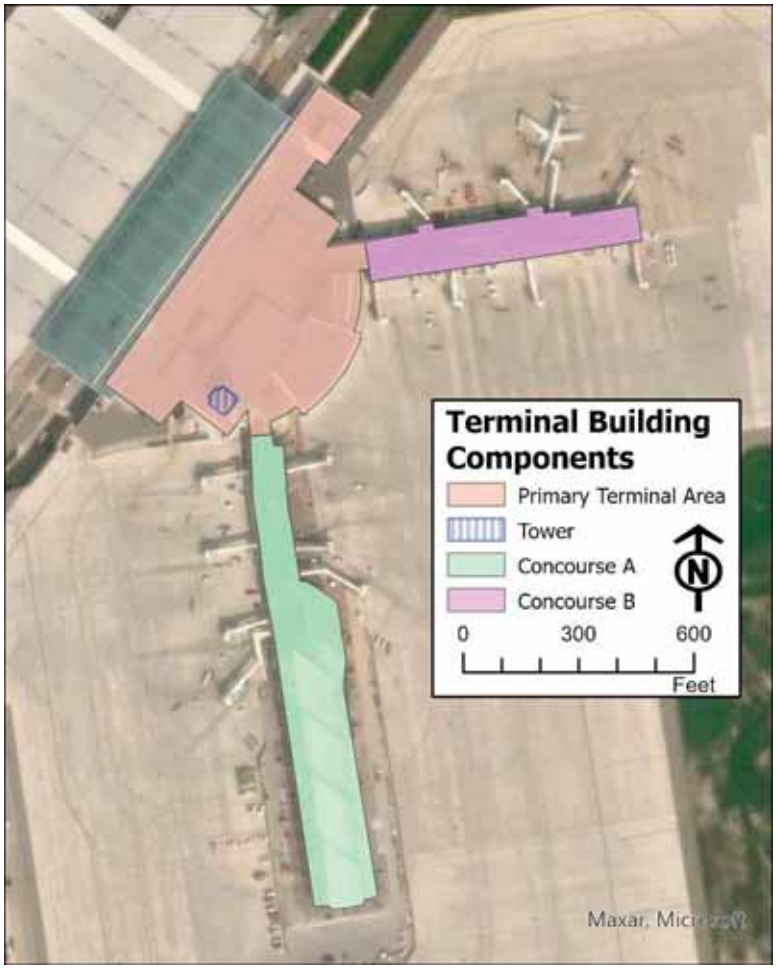

Figure 1: Image showing Terminal Building components for the purposes of the description. The glass canopy and parking garage are visible at upper-left, adjacent to the northwest elevation of the Primary Terminal Area.

Primary Terminal Area

The Primary Terminal Area functions as the main public space for commercial airline passengers. It consists of a one- and two-story form that is generally rectangular in plan, with a rounded southeast elevation. It connects with Concourse A and Concourse B to the south and east, respectively, and to the 2006 parking garage at the northwest via two skywalks over the main drive.

Northwest Elevation

The front, northwest elevation is entirely landside, fronts the main drive, and has a series of projections and setbacks along the elevation. The exterior consists of a mix of large metal tiles, with areas showing a concrete water table. Fenestration is largely metal frame multi-light windows—with some on the second story flanked by black-colored spandrel glass—transom windows on the first story, and metal frame automatic sliding doors. The one-story areas have cantilevered overhangs affixed to the roof that consist of angled metal supports, and which project over the sidewalk between the main drive and the Terminal Building. The scored concrete fascia of the original building is visible in some

areas below these overhangs near the elevation's southern end. At the south end of the northwest elevation is a covered waiting area, supported by square metal posts, with a flat roof and metal fascia. The two-story areas along this northwest elevation occur where the skywalks connect to the parking garage.

Figure 2: Northern end of the northwest elevation, looking south from the parking garage. At center-left is an addition constructed in 2024.

Figure 3: A portion of the northwest elevation, looking south from the parking garage. The original building form is seen projecting from the roofline in the background.

Figure 4: A portion of the northwest elevation, looking north from the parking garage.

Figure 5: The southern end of the northwest elevation, looking north from the parking garage. Centered in the photograph is the covered waiting area.

Southwest Elevation

The southwest elevation is located almost entirely airside and is primarily utilitarian in nature. Most of this elevation consists of single-story projecting additions of concrete masonry units—located at the elevation's western end—with metal garage door openings. The southwest elevation of the Terminal Building's original lobby area is visible at the elevation's far eastern end. This two-story form is primarily clad in concrete panels interspersed with vertical bays of metal panels and windows. The elevation of this form is spanned by transom windows just below the projecting roof eaves that exhibit the scored concrete roof fascia. A metal door is located near the western end of this area.

Figure 6: The southwest elevation of the Primary Terminal Area, with the projecting additions at center-left and the original Terminal Lobby at right, looking north from the airfield.

Figure 7: The projecting additions of the southwest elevation of the Primary Terminal Area, looking north from the airfield.

Figure 8: The southwest elevation of the original Terminal Lobby of the Primary Terminal Area, looking north from the airfield.

Southeast Elevation

The southeast elevation consists of the original Terminal Lobby at the western end and an addition at the eastern end. The Terminal Lobby's southeast elevation connects to Concourse A, and is a two-story form primarily clad in concrete panels interspersed with vertical bays of metal panels and windows. The elevation of this form is spanned by transom windows just below the projecting roof eaves that exhibit the scored concrete roof fascia. The eaves are supported by metal columns clad in pebbledash, and displays the original scored concrete roof fascia.

The remainder of the southeast elevation consists of additions to the original Terminal Building.

Figure 9: The southeast elevation of the Primary Terminal Area, showing the roofline of the original Terminal Lobby at far left below the Tower and partially obscured by Concourse A, the curved addition at center, and Concourse B at right. Photo looking northwest from the airfield.

Figure 10: The southeast elevation of the Primary Terminal Area, showing the original Terminal Lobby at the elevation's western end, with the roof of Concourse A visible at bottom of the photograph. Photograph is looking northwest from the roof of Concourse A.

Figure 11: The southeast elevation of the Primary Terminal Area, showing the roofline of the original Terminal Lobby at left below the Tower and partially obscured by Concourse A, the curved addition at center-right. Photo looking northwest from the airfield.

Figure 12: The southeast elevation of the Primary Terminal Area, showing the curved addition at left, and Concourse B center-right. Photo looking northwest from the airfield.

Northeast Elevation

The northeast elevation consists of an addition to the terminal building at its eastern end, which includes a two-story massing and a double-height covered parking lot. The exterior of this elevation consists of poured concrete along the first story (at apron level) and contemporary metal exterior panels on the second story. This metal parking lot overhang is supported by square metal posts in concrete piers. Fenestration includes solid metal doors and three bands of fixed windows, each with three lights.

Figure 13: At left, the southern portion of the northeast elevation of the Primary Terminal Area. At right, the northeast and northwest elevations of the Primary Terminal Area.

Tower

The Tower is integrated into the design of the Primary Terminal Area, but is a distinct component from the rest of the Terminal Building in its function. The Tower is 130 feet tall and is supported by four primary structural columns, consisting of pairs on its northwest and southeast ends. With the exception of the cab, the remainder of the Tower spans these two columns with a void just above the roof of the Primary Terminal Area. An octagonal cab with canted windows sits atop the southeastern end of the Tower oriented toward the airfield. The roof includes a simple metal pipe railing that wraps around the roofline of each elevation.

Northeast and Southwest Elevations

The southwest and northeast elevations are near mirror images of one another, and are therefore described together. These elevations have rectilinear structural columns at each end, clad in concrete, with the northwest column exhibiting a greater width than the southeast column. Between the columns are the tower's six stories. Each story is separated on the facade by a projecting band of concrete that consists of the same material and design as the original roofline on the Primary Terminal Area. Both ends of the projecting bands make a return, continuing to the adjacent elevations. The exterior of the lower five stories is clad in concrete, and have symmetrical fenestration consisting of three narrow, full-length openings fitted with fixed windows above small metal panels. The concrete on the lower five stories is a lighter shade of grey than that of the tower's columns and upper, sixth story. The exterior of the tower's sixth story is a flat plane of concrete with a single metal door leading to a balcony. The balcony is located directly above the projecting band of concrete between the fifth and sixth stories and has a simple metal pipe railing and mechanical equipment. At the southwest elevation is also a metal pipe cage ladder leading to the roof. Scattered about the exterior of various floors are wall vents.

Figure 14: The northeast and southwest elevations of the Tower, at left and right, respectively. Left photograph looking southwest from the airfield and right photograph looking northeast from the airfield.

Southeast and Northwest Elevations

The southeast and northwest elevations are near mirror images of one another, and are therefore described together. These elevations primarily consist of the each of the tower's pairs of rectilinear structural columns. Columns in the pairs are the same size, and all are clad in concrete. The northwest column pair exhibits a greater width than the southeast column pair, but both elevations are symmetrical. Between the columns is a narrow, recession centered on the elevation consisting of fixed windows at each floor separated by metal panels.

On either side of the column pair are projecting bands of concrete that separate each story, and consist of the same material and design as the original roofline on the Primary Terminal Area. These projecting bands wrap around to the southwest and northeast elevations. The exterior on either side of the column pairs differs slightly between the southeast and northwest elevations. At the southeast elevation, the exterior of the lower five stories is clad in concrete with single, fixed windows above metal panels near the elevation corners. At the northwest elevation, the exterior of the lower five stories consists only of single, fixed windows above metal panels—also near the elevation corners. The exterior of the tower's upper, sixth story has no openings at the southeast elevation, and displays only a concrete exterior. The sixth story of the northwest elevation only consists of the column pair, as the exterior is recessed in comparison to the lower five stories. The metal pipe railing at the tower's two balconies wrap around at both the southeast and northwest elevations, terminating at the column pairs.

Figure 15: Left photograph shows the Tower's southeast elevation, looking northwest from the airfield. Right photograph shows the Tower's northwest and southwest elevations, looking east from the garage.

Cab

The one-story cab sits atop the control tower and is the primary location of air traffic control activity. It is located near the southeastern end of the tower. The cab has an octagonal form with a flat roof with metal fascia. The roof is topped by a rotating spotlight and communications antennae affixed to a metal railing that wraps around the roof perimeter. An exterior metal ladder provides access between the tower roof (at the cab level) and the cab roof. Metal fixed windows span all eight elevations and are canted downward. Just below the windows is a band of poured concrete.

Figure 16: Left photograph of the cab is looking east from the garage. Right photograph of the cab is looking west from the airfield.

Concourse A

Concourse A is an approximately 950-foot-long passenger concourse that extends southward from the southwest corner of the Primary Form. It has an entirely contemporary design the reflects additions and alterations completed in 2022. This 2022 addition tripled the concourse footprint, extending it approximately 650 feet to the south, and is defined by double-height second stories and a cascading roofline clad in metal sheet roofing. The remainder of the concourse roof is flat and primarily clad in bituminous sheet roofing, with a small green roof near the connection with the Primary Form. There is also one gable skylight at the northern portion of the concourse. Exterior materials are primarily concrete on the first story, with a mix of glass and metal cladding on the second and third stories. The first story houses airfield and aircraft support services with the second story serving as an interior passenger corridor, with waiting rooms, concessions, and other facilities. It has 16 gates and associated passenger boarding bridges.

Figure 17: East elevation of Concourse A, looking west from the airfield. The 2022 addition is marked by the higher cascading and flat rooflines at center-left, with the original form at right.

Figure 18: Northern portion of the east elevation of Concourse A, looking west from the airfield.

Figure 19: Portion of the east elevation of Concourse A, looking west from the airfield.

Figure 20: Portion of the east elevation of the 2022 addition to Concourse A, looking west from the airfield.

Figure 21: Southern portion of the east elevation of Concourse A, looking southwest from the airfield.

Figure 22: West elevation of Concourse A, looking southeast from the garage.

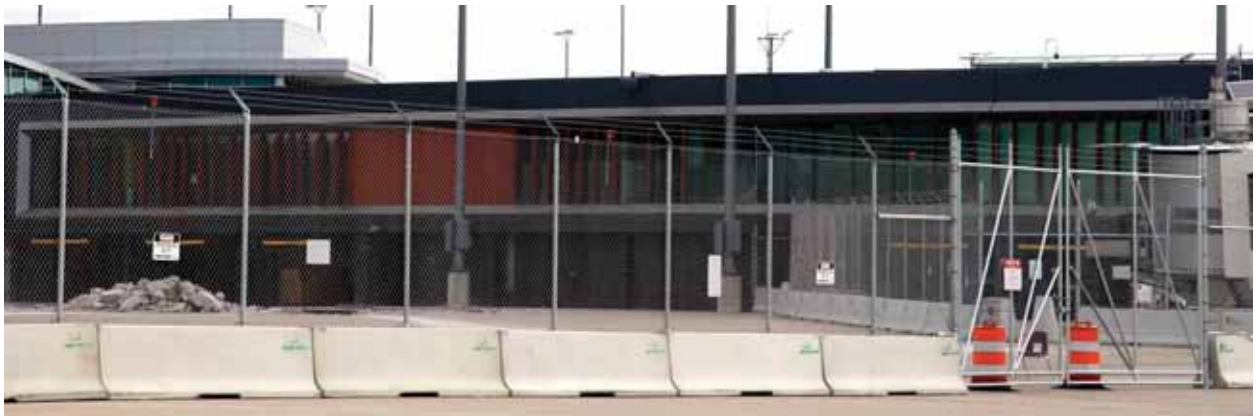

Figure 23: Northern portion of west elevation of Concourse A, looking east from the airfield.

Figure 24: Portion of the west elevation of Concourse A, looking northeast from the airfield.

Concourse B

Concourse B is an approximately 520-foot-long passenger concourse that extends eastward from the northeast corner of the Primary Form. Although it exhibits several alterations over time, the exterior still retains the materials and character from the original 1970s design. It is two stories with a flat roof clad in bituminous sheet roofing. One gable skylight is near the middle of the concourse. Exterior materials are primarily concrete, with fixed windows and garage doors at the first story and fixed windows at the second story. The first story houses airfield and aircraft support services with the second story serving as an interior passenger corridor, with waiting rooms, concessions, and other facilities. It has eight gates and associated passenger boarding bridges.

Figure 25: West elevation of Concourse B, looking northeast from the airfield.

Figure 26: Northern portion of the west elevation of Concourse B, looking northeast from the airfield.

Figure 27: Portion of the west elevation of Concourse B, looking northeast from the airfield.

Figure 28: Portion of the west elevation of Concourse B, looking east from the airfield.

Figure 29: East elevation of Concourse B, looking southwest from the garage.

History of the Resource

Provide information on previous owners, land use, construction and alteration dates in a narrative format. This is required for all intensive level surveys and designation and recommended for other identification efforts.

The first airport for Kent County (old Kent County Airport) was located approximately 6 miles west of the current airport. In the mid-1940s the Federal Aviation Administration (FAA) alerted Kent County (County) that it was in default of its agreement with the agency due to certain runway changes the airport made to accommodate military jets. The County feared noncompliance may result in FAA canceling all commercial flights in and out of the airport, and FAA may also demand a refund on federal funds that had been allocated if the airport did not rectify the situation.[1]

To decide whether to upgrade the existing airport or acquire land elsewhere to develop a new airport, County supervisors established an Aeronautics Board to work through the logic of both options. At the Board's recommendations, County supervisors acted to acquire land for a new airport elsewhere, with the Board commissioning a study by aviation consultants (Fisher Study) to find the appropriate location and work through developments details.[2] The Fisher Study presented recommendations to the Board in August 1958, and Kent County supervisors in turn purchased 1,800 acres of land in the Cascade Township for the county's new airport.[3]

Grand Rapids-based architecture and engineering firm Daverman Associates partnered with New York-based Aeronautical Consultant James C. Buckley to design the new airport, with the former set to design the new Terminal Building.[4] The airport's initial buildings were planned to include the Terminal Building (extant), a service station for automobiles (nonextant), and a 35-room Fred Harvey-branded hotel (nonextant), with 3.75 acres for surface parking. Other buildings included several hangars (nonextant), a cargo warehouse (extant), and a water tower among other utilitarian buildings and structures (nonextant). Groundbreaking began on May 6, 1961, with the airport aiming to accommodate the first flights in the second half of 1962, and a formal opening celebration scheduled for late 1963.[5]

The new airport's terminal was designed to incorporate three main components and have the flexibility to expand in the future, when needed. These components were the Terminal Building, which would have two main sections, a ticketing hall and a lobby; a 130-foot air traffic control tower situated atop the Terminal lobby portion, and a passenger concourse extending south from the Terminal lobby's southwest corner, providing access to gates. This design conformed to standard practices of the aviation industry at the time, and the building's construction began in November 1962 (see Figure 30). The builder on record was the Barnes Construction Company, with Owen-Ames-Kimball hired to build the foundation.[6]

[1] "Airport '74" (Grand Rapids Chamber of Commerce, November 1974), 13.

[2] "Airport '74," 11.

[3] "Farm Land Gives Way To Airport," *Grand Rapids Press*, June 20, 1961; "Airport '74," 13–14.

[4] Daverman Associates had designed the Administration Building on the site of the city's original Kent County Airport. At this time, the architecture firm conducted business under the name J. & G. Daverman.

[5] "Airport '74," 16.

[6] "Airport '74," 16.

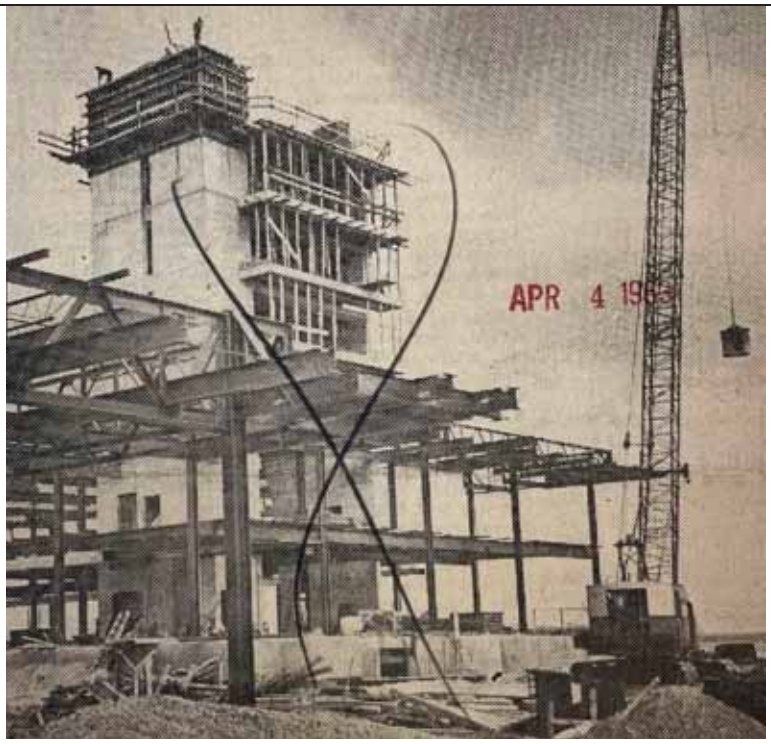

Figure 30: A photo in an April 4, 1963, article published in the Grand Rapids Press *showing construction of the Terminal Building.*[7]

When complete, the Terminal Building offered office space for the United States Weather Bureau; the Golden Eagle restaurant operated by Fred Harvey (nonextant), which overlooked the airfield through large windows; and an observation deck located on the roof of Concourse A (nonextant). The Fred Harvey Hotel (nonextant) was constructed to the northwest of the Terminal Building, across the parking lot, and a cargo handling agency warehouse was constructed to the southwest of the Terminal Building on the facility's airside (extant).[8]

The primarily public spaces at the airport included those in the Terminal Building, with a ticketing area that includes baggage claim fronting the main drive and the terminal lobby (see Figure 33), connected to the ticketing area by a hyphen. The concourse extended south from the waiting area, which provided passengers with an indoor space to walk directly to the gate, and the aircraft via passenger boarding bridges, as well as an outdoor observation deck.

[7] "Airport Changes Cascade Skyline," *Grand Rapids Press*, April 4, 1963.

[8] "Kent County Airport 1964 Annual Report" (Kent County Aeronautics Board, January 1965).

Figure 31: A c.1965 photograph of the new airport, showing the Terminal building at bottom left, the cargo warehouse at upper right, an unidentified building just below the cargo warehouse, and the service station at far right. In this image, the Terminal Building's individual components of its original design are shown, with the ticketing area at right, fronting the main drive, connected to the waiting room and restaurant areas at center with control tower above, and the concourse extending to the left.[9]

Figure 32: A c.1970 photograph of the Terminal Building, view east from the parking lot.[10]

[9] *[Bird's Eye Photograph of Kent County Airport]*, Photograph, c 1965, Coll. 54: G.R.P.L. Photo Collection, Kent County Airport 1963-, Grand Rapids History Center.

[10] Hero Bratt, *[Photograph of Terminal Building from Parking Lot]*, Photograph, c 1970, Coll. 372: Hero Bratt Collection, Other Subjects, Airport, Grand Rapids History Center.

Figure 33: A 1964 photograph of the ticketing area of the Terminal Building.[11]

The Terminal lobby includes a double-height waiting room area, gift shop, TV lounge, nursery, café, and restaurants, including the Fred Harvey-operated Golden Eagle restaurant.[12] It originally had white terrazzo floors, a staircase over a reflective pool leading to the second story, and walnut paneled walls.[13]

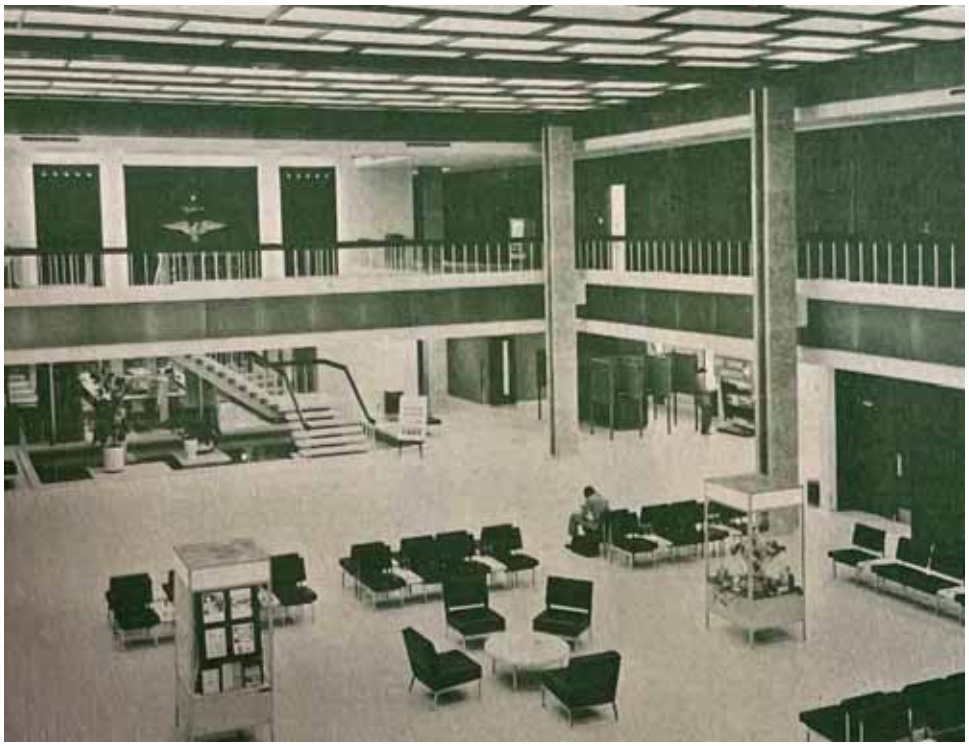

Figure 34: The double-height lobby of the Terminal Building shown in a photograph taken shortly after completion. The Fred Harvey-operated Globe Restaurant is visible on the second floor at left.[14]

[11] "Kent County Airport 1964 Annual Report."

[12] "Kent County Airport 1964 Annual Report."

[13] Robert Ross and John Zwarensteyn, "Airport Story," *Grand Rapids*, June 1976, 31.

[14] "Kent County Airport 1964 Annual Report."

Figure 35: The interior of the Globe Restaurant, operated by Fred Harvey, in the Terminal Building, with large windows looking out to the airfield.[15]

Figure 36: A c.1970 photograph of the west elevation of the concourse, with people on the observation deck visible at far left.[16]

The control tower was constructed as a component of the Terminal Building, completely incorporated into its design. A 1963 *Grand Rapids Press* article lists the "modern equipment" in the tower: "Weather teletypes; the terminal visual omni-range for guiding incoming planes and assisting them on final approach; intercom and telephone call director; radio transmitter and receiver for local, approach and ground controllers; altimeter; wind speed and direction indicators, and instrument landing system monitor" (see Figure 38).[17] While up-to-date, this technology is not referenced in this article or any other document as being the first of its kind or revolutionary in any way. The exterior of the tower consists of concrete, as well as a granulus surfacing material consisting of Italian marble and applied with a trowel.[18]

[15] "Kent County Airport 1964 Annual Report."

[16] Hero Bratt, *[Photograph of Concourse A 1]*, Photograph, c 1970, Coll. 372: Hero Bratt Collection, Other Subjects, Airport, Grand Rapids History Center.

[17] "Cascade 'Control Console' Ready," *Grand Rapids Press*, October 23, 1963.

[18] "New Giant on the Landscape," *Grand Rapids Press*, October 28, 1963.

Figure 37: A c.1965 photograph of the air traffic control tower shortly after construction.[19]

Figure 38: A 1963 photograph showing an FAA controller in the Kent County Airport control tower, shortly after construction, as published in an October 23, 1963, article in the Grand Rapids Press.[20]

[19] *[Photograph of Air Traffic Control Tower at Kent County Airport]*, Photograph, 1963, Coll. 54: G.R.P.L. Photo Collection, Kent County Airport 1963-, Grand Rapids History Center.

[20] "Cascade 'Control Console' Ready."

The airport's formal dedication occurred on June 6, 1964, with an air show and speech by then-U.S. Congressman Gerald R. Ford.[21] The first scheduled "jet" arrived at the airport in 1968, bringing the "jet age" to Grand Rapids.[22] In the early 1970s the original concourse (Concourse A) was expanded, and the airport's second concourse (Concourse B) was constructed at the east end of the Terminal Building, mirroring the updated design of Concourse A.[23] It is likely that, at this time, the observation deck atop Concourse A was closed, given the new design of the concourse. In 1977 the airport opened a U.S. Customs and Border Control office to accommodate passengers arriving on international flights, and in turn, changed its name to the Kent County International Airport.[24]

Figure 39: A c.1980 photograph of the airport showing changes to the original facility design and the addition of several new buildings since the airport's opening. The Fred Harvey Hotel is visible at center-left above the parking lot (showing the expanded building), the original seven hangars are visible at bottom-left, and the Terminal Building is shown with a second concourse (today's Concourse B), extending to the right (east) of the Terminal Building's lobby area.[25]

[21] "How Time Flies: 2014 Report To The Community" (Gerald R. Ford International Airport Authority, 2014), 2.

[22] "How Time Flies: 2014 Report To The Community," 5.

[23] "Aerial Image: Cascade Township, KentCounty, Minnesota, 1972," *Historic Aerials by NETROnline*, n.d., https://www.historicaerials.com/viewer; "Aerial Image: Cascade Township, KentCounty, Minnesota, 1974," *Historic Aerials by NETROnline*, n.d., https://www.historicaerials.com/viewer.

[24] "How Time Flies: 2014 Report To The Community," 7.

[25] Robinson Studio, *[Photograph of Kent County Airport]*, Photograph, c 1965, Coll. 125: Robinson Studio Photos, Grand Rapids History Center.

Figure 40: The west elevation of the original concourse (Concourse A) after alterations in the early 1970s.[26]

Concourse B was expanded c.1985 and the Terminal Building received large additions to its northeast elevation. Also around this time the parking lot was expanded to accommodate 3,300 vehicles. The Terminal Building was expanded again c.1990 with additions constructed on its northeast elevation. In 1999 the Kent County International Airport was renamed the Gerald R. Ford International Airport in honor of former U.S. Congressman and President Gerald R. Ford.[27]

In 2006 one of the most substantial visible changes was carried out adjacent to the Terminal Building with the construction of a four-story parking garage at the location of the previous surface parking lot. This was accompanied by two skyways linking the parking garage with the Terminal Building, and the construction of a glass canopy structure over the main drive. As part of this construction, Concourse A was expanded again. In 2013-2014 interior spaces of the Terminal Building were updated and Concourse B was expanded again. By 2016 the Terminal Building was expanded to the southeast, and Concourse A was expanded again. The only component of the Terminal Building that remains relatively unaltered is the air traffic control tower.

[26] Hero Bratt, *[Photograph of Concourse A 2]*, Photograph, c 1970, Coll. 372: Hero Bratt Collection, Other Subjects, Airport, Grand Rapids History Center.

[27] "How Time Flies: 2014 Report To The Community," 14.

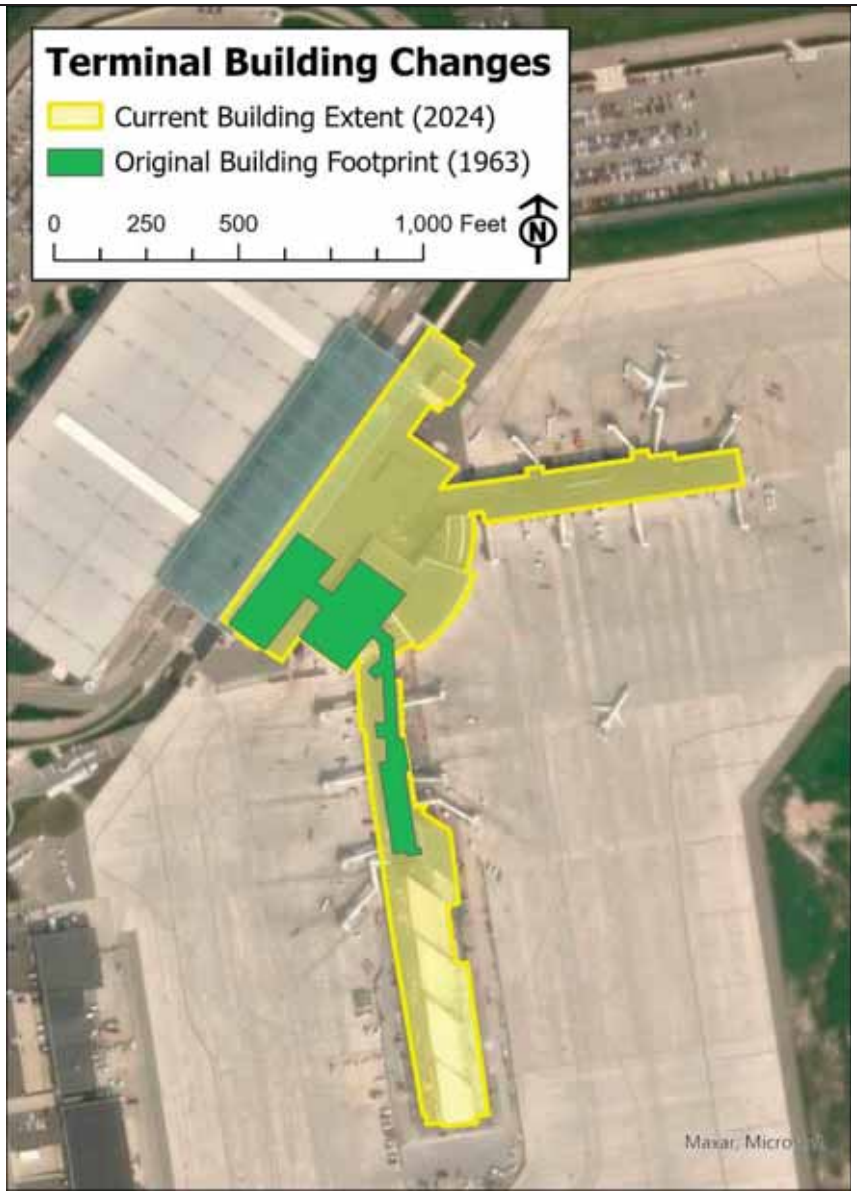

Figure 41: This graphic shows the difference in building footprint between 1963 and 2024.

Statement of Significance/Recommendation of Eligibility
Provide a detailed explanation of the property's eligibility for the National Register, including an evaluation under at least one of the four criteria, discussion of the seven aspects of integrity, and recommendations about eligibility. This is required for all properties.

Airport Terminal Design

The design of airport terminals has evolved over time as the function of the terminal itself has changed. Early terminals were essentially a sheltered waiting area for passengers, and as they became more sophisticated designers considered the spatial needs inherent in moving people through a single building that acted as a bridge between air and ground transportation. In the post-World War II (postwar) period terminals began to sprawl, offering new retail and entertainment amenities and spawning purpose-specific wings (the boarding pier, later the concourse) to provide access to boarding gates. The "jet age" heralded the introduction of jet-engine-powered aircraft into commercial transportation in the late 1950s, and architects responded with new and modified terminals that eventually developed to include multiple, distinct concourses.

The following section discusses the development and evolution of airport terminals as a property type, including layout changes that shaped new terminal design in the twentieth century. The era in which a terminal is built is reflected in its design; thus, to establish potential for significance of the Terminal Building and its associated concourses, it needs to be placed within an appropriate historic context of airport design of the era in which it was built, with a contextual understanding of any prior periods that influenced its design. This historic context provides the background within which to understand how the original design of the Terminal Building represents a shift from the minimal terminals of the propeller aircraft age to larger terminals of the jet age. New and expanded terminals and concourses accommodated the increase in passenger travel associated with the introduction of larger jet-engine-powered aircraft such as the Boeing 707 and McDonnell Douglas DC-8.

Pre-World War II beginnings

The period between World War I and World War II saw the birth of both commercial passenger aviation and the airport terminal as a distinct architectural property type.[28] Prior to that time airfields were either purely utilitarian (a landing field, perhaps with storage facilities) or designed as sporting venues similar to horse racing tracks, where spectators could watch air contests and demonstrations.[29] World War I served as an impetus for the rapid advances in both aircraft and airfield development, and at the war's conclusion Europe's aviation infrastructure was far more developed than that of the U.S.[30] The 1910s and 1920s saw the conversion of European military airfields for civilian use, and through much of the interwar period Europe dominated the forefront of airport design and development.[31] Major interwar examples included Paris's Le Bourget, Berlin's Tempelhof, and the Hendon, Croydon, and Hounslow airports outside London.[32]

Early terminal buildings at these airports varied widely; aesthetically, many employed architectural styles popular at the time, while others were designed to evoke existing, familiar architecture precedents. At Le Bourget, the first design included a group of small buildings, each of which housed different functions, rather than a single terminal; the buildings were arranged around a central plaza reminiscent of an urban city square. The first "integrated terminal" design was constructed in 1922 at the Königsburg airport in East Prussia (now Kaliningrad, Russia). The facility combined passenger and administrative spaces in a single building, located at the corner of the airfield and flanked by hangars.[33]

[28] Hugh Pearman, *Airports: A Century of Architecture* (London: Laurence King Publishing, 2004), 42; Alastair Gordon, *Naked Airport: A Cultural History of the World's Most Revolutionary Structure* (Henry Holt and Company, 2014), 10–13.

[29] Gordon, *Naked Airport*, 10–13.

[30] Pearman, *Airports*, 41.

[31] Gordon, *Naked Airport*, 10–13.

[32] Pearman, *Airports*, 42.

[33] Pearman, *Airports*, 53.

The Königsburg concept was employed in Berlin on a far grander scale with the landmark construction of the first terminal at Tempelhof in 1926 (see Figure 42). At Tempelhof, the airport facilities included a central control tower, hangars, and a two-story terminal building. The terminal itself featured a Modernist design with a long, linear form and bands of windows. Notably, its designers anticipated future expansion and expected that additions would extend at either end to accommodate larger numbers of passengers.[34] Tempelhof made landmark achievements and several firsts in airport design, and incorporated an open-air 3,000-seat restaurant and observation deck at the roof to provide travelers with view toward the airfield to enjoy the novelty of watching flight.[35] Completed in 1929, the Schiphol Terminal in Amsterdam had similar open-air roof cafes designed for spectators.[36]

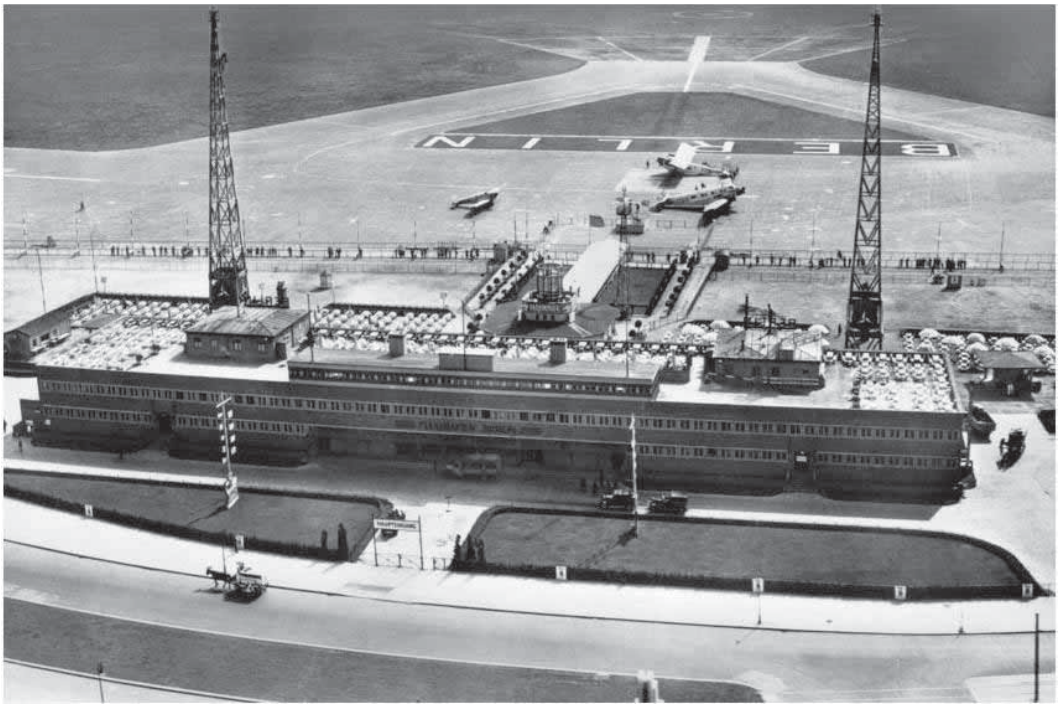

Figure 42. Photograph of the 1926 Tempelhof terminal building, shown in 1928.[37]

In the U.S., airport terminals initially fell into one of two general building types. Many took the form of the "depot hangar," which placed waiting rooms and offices in a portion of a large hangar. A parallel model developed based on the railroad station, in which a separate dedicated building housed a waiting area and had "gates" to permit access to and from aircraft on the adjacent apron.[38] Within these two general forms, architects applied a range of decorative detail that incorporated popular architectural styles or aviation-based imagery.[39]

Financed largely through private enterprise, the fledgling commercial airline industry in the U.S. suffered somewhat with the onset of the Great Depression. Nevertheless, federal relief programs such as the Public Works Administration and the Works Progress Administration (later renamed Work Projects Administration) soon provided

[34] Pearman, *Airports*, 53.

[35] Pearman, *Airports*, 53.

[36] Pearman, *Airports*, 62.

[37] SPIEGEL ONLINE, "Fotostrecke - Bild 2 - Abschied von Tempelhof," *SPIEGEL ONLINE*, October 29, 2008, https://www.spiegel.de/fotostrecke/abschied-von-tempelhof-fotostrecke-107840-2.html.

[38] John Zukowsky and Koos Bosma, *Building for Air Travel: Architecture and Design for Commercial Aviation* (Chicago: Art Institute of Chicago, 1996), 68–70.

[39] Zukowsky and Bosma, *Building for Air Travel*, 73.

a major source of funding for construction and expansion of municipal airports across the nation.[40] Federal efforts to standardize the design of both airports and the terminals themselves led to greater uniformity of design, if not style. The common form that emerged by the mid-1930s was not too dissimilar to the European model established at Tempelhof; municipal airports typically consisted of a low, wide building with a central control tower and windows along the airside elevation.[41] But while many smaller municipal airports followed this pattern, influential large-scale examples at New York's La Guardia and Washington D.C.'s National (now Reagan) airports were at the forefront of airport development during this period, serving as forerunners to the postwar model of major urban airports.[42]

The common form for airports that emerged by the mid-1930s was not too dissimilar to the European model established at Tempelhof; municipal airports typically consisted of a low, wide building with a central control tower and windows along the airside elevation.[43] Increased air travel and aircraft technological advancements continued to draw spectators to airports and entertained enthused travelers. In turn, airports constructed during this period continued to incorporate the glamorous aspects of air travel, providing areas to accommodate traveler curiosity and excitement through observation decks and restaurants that provided direct views toward the airfield.

In the United States, the Union Air Terminal (now Hollywood Burbank Airport) in Burbank, California, opened a restaurant in 1940 called the Sky Room (see Figure 43). This restaurant had large windows overlooking the airfield and had a white table-cloth dining experience.

Figure 43. Interior of the Sky Room restaurant within the Union Air Terminal (now Hollywood Burbank Airport) in Burbank, California.[44]

Postwar and the jet age

As commercial air travel resumed following World War II, passenger totals rose exponentially. Across the nation, smaller airport terminals were inadequate to handle thousands of passengers. New terminal designs were

[40] Zukowsky and Bosma, *Building for Air Travel*, 72.

[41] Zukowsky and Bosma, *Building for Air Travel*, 73–74, 79; Gordon, *Naked Airport*, 101–3; Pearman, *Airports*, 57.

[42] Gordon, *Naked Airport*, 121.

[43] Zukowsky and Bosma, *Building for Air Travel*, 73–74, 79; Gordon, *Naked Airport*, 101–3; Pearman, *Airports*, 57.

[44] Frashers Inc., *Sky Room, Union Air Terminal, Burbank, California*, Photograph, ca 1940, California State Library.

developed to accommodate travel on this unprecedented scale. At the forefront of this new breed of airport, Greater Pittsburgh Airport (now Pittsburgh International Airport) embodied the future that awaited the terminal as a city unto itself. Completed in 1952, it was the largest terminal constructed in the U.S. at the time, described as a "city within a city," and featured a nightclub, roof deck, restaurants, cinema, and retail stores.[45] Along with Friendship International Airport in Baltimore (opened in 1949, now Baltimore/Washington International Airport), Pittsburgh's terminal design incorporated the now-standard curved form, accessed from a looping drive, and a convex airside elevation. Unlike prewar airports, however, both Baltimore and Pittsburgh utilized a new and notable design component, deployed in response to the increasing size of aircraft and numbers of passengers. At both airports, a massive perpendicular wing (longer than the main terminal itself) extended from the center of the terminal out onto the apron to provide enclosed access directly to aircraft gates, rather than requiring passengers to walk across the tarmac. At Pittsburgh, this boarding wing was referred as the "finger dock," and featured a staggered massing with a rounded end (see Figure 44).[46]

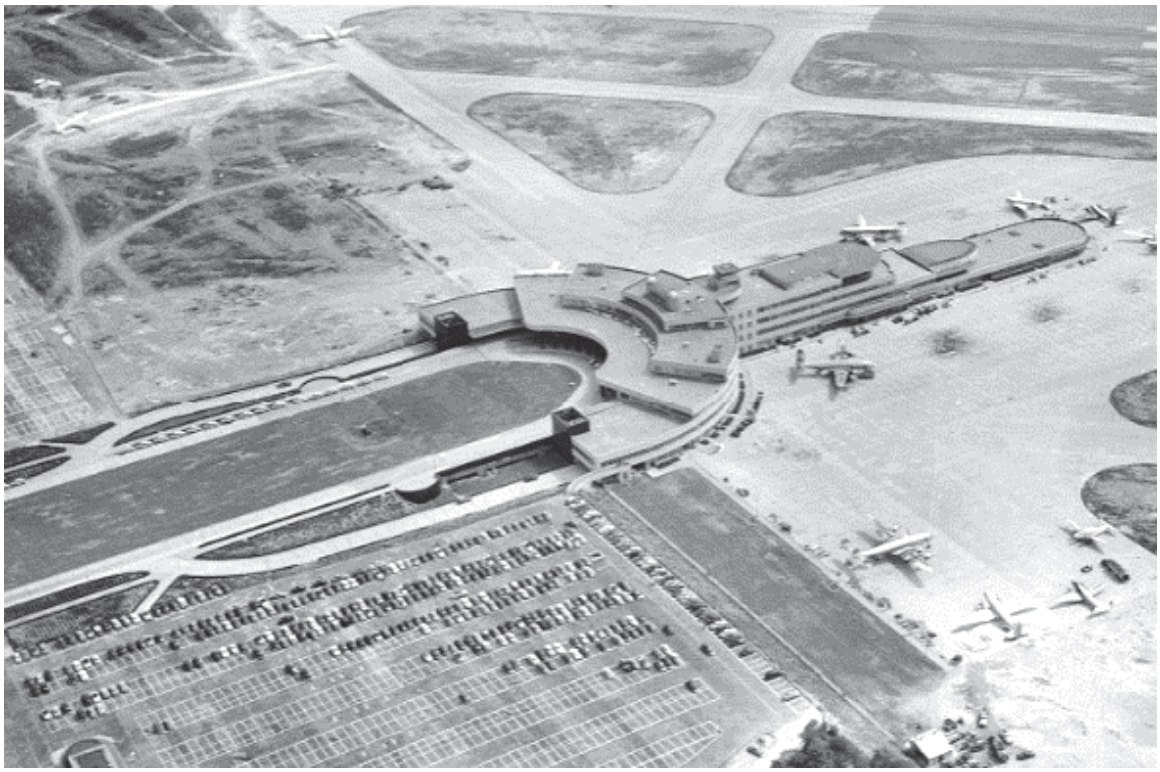

Figure 44. Greater Pittsburgh Airport, c.1952.[47]

Major airports constructed immediately following World War II incorporated open-air observation decks into their designs, including Friendship International Airport in 1950, and the Central Terminal at San Francisco International Airport in 1954. There was also one at the International Arrivals Building at Idlewild Airport (now JFK) in New York, completed in 1957, which was the largest airport observation deck in the United States at the time. Upon opening, the Central Terminal of the San Francisco International Airport also included the International Room restaurant, which had a prominent view of the airfield designed for patrons to view the airfield activity.[48]

[45] Gordon, *Naked Airport*, 164, 166.

[46] Gordon, *Naked Airport*, 164–65.

[47] Harold Corsini, *Aerial View of Greater Pittsburgh Airport | Historic Pittsburgh*, Photograph, c 1952, MSP285.B001.F03.I05, Detre Library & Archives, Heinz History Center, https://historicpittsburgh.org/islandora/object/pitt%3AMSP285.B001.F03.I05/from_search/4330a4ab72217447044b1b828d36ba2c-2.

[48] "Airport Gains in First 6 Mos.," *San Mateo Times*, August 25, 1954, San Mateo Times International Airport Souvenir edition.

Aside from the boarding piers, the airports of the early 1950s were not altogether different from their prewar antecedents and used existing building technology. By the late 1950s, however, architects used new technologies to create ever more futuristic terminal buildings, resulting in changes to both style and layout/form. During the war, concrete arches and shells saw increasing use for hangar construction and enabled extremely large clear spans, such as at the San Diego Naval Air Station (see Figure 45).[49] From these more utilitarian uses, postwar designers drew both technical and aesthetic inspiration, as can be seen at Lambert Airport in St. Louis, itself an inspiration for Saarinen's TWA terminal at JFK.[50] Designed by Minoru Yamasaki of Hellmuth, Yamasaki and Leinweber, Lambert opened in 1956 to great acclaim. Described by architecture critic Hugh Pearman as "the best of the 1950s airports," Yamasaki's Lambert terminal served as a model for many of the architects who designed the terminals at John F. Kennedy International Airport in New York.[51] The terminal's thin-shell concrete design employs three cross-vaulted spaces arranged in a linear fashion, illuminated by vast expanses of glass (see Figure 46). Like earlier airports, it utilized a perpendicular boarding pier, but the arched roof and massive glazed facades were new elements that would be echoed for decades to come.

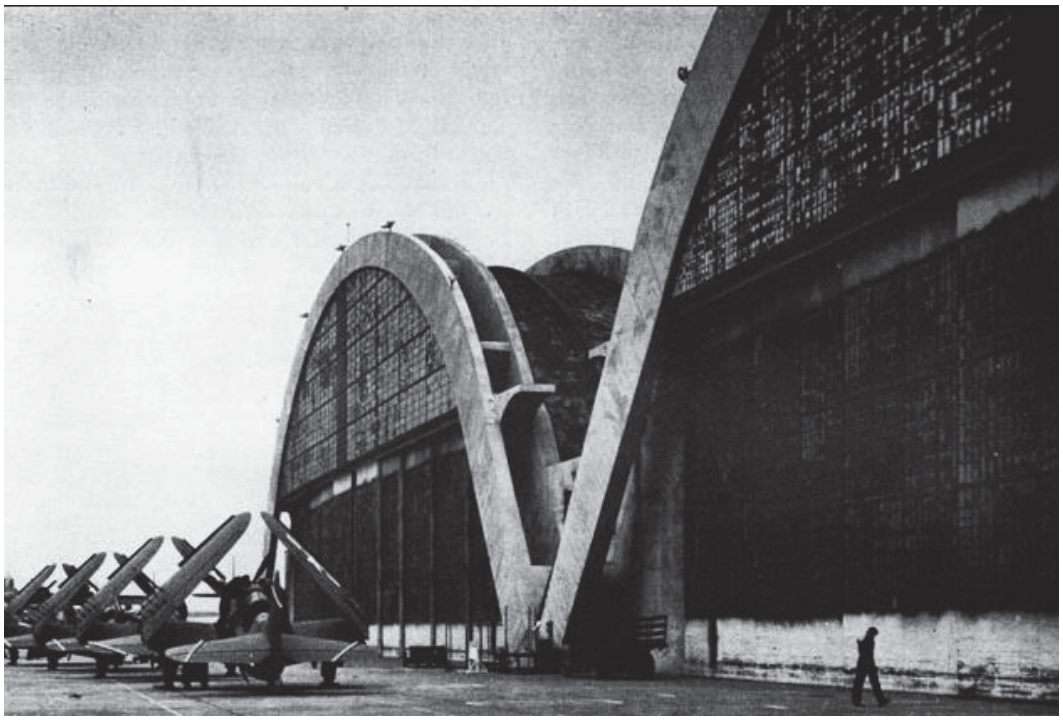

Figure 45. Concrete arch hangars at the San Diego Naval Air Station.[52]

[49] Gordon, *Naked Airport*, 135.

[50] Antonio Roman, Antonio Román, and Eero Saarinen, *Eero Saarinen: An Architecture of Multiplicity* (New York: Princeton Architectural Press, 2003), 52; Pearman, *Airports*, 117.

[51] Pearman, *Airports*, 140, 142.

[52] "As War in Europe Escalated, 1940 Naval Expansion Act Came When #PlatformsMatter-Ed Most," *Naval History and Heritage Command*, July 19, 2014, https://usnhistory.navylive.dodlive.mil/2014/07/19/as-war-in-europe-escalated-1940-naval-expansion-act-came-when-platformsmatter-ed-most/.

Figure 46. Concrete arches of the terminal at Lambert International Airport in St. Louis.[53]

Commercial jet-engine-powered aircraft for passenger travel were first introduced in the U.S. in 1959, and rapidly altered the parameters of airport design.[54] The rise of the jet age, with its larger and louder aircraft, increased the need to provide separation between the main terminal and the aircraft boarding gates. Concourses lengthened or branched, and new enclosed passenger boarding bridges such as the “aero gangplank” introduced by United Airlines at O’Hare International Airport in 1958 eliminated the need to exit the concourse to board an aircraft from the tarmac.[55]

The early jet age incited public enthusiasm regarding air travel and the new jet-engine-powered commercial aircraft. A phenomenon of traveling to an airport not to travel, but to view the aircraft, emerged that influenced airport design of the late 1950s and 1960s. Catering to these desires, airport designers incorporated large windows and observation decks, as well as dining rooms that overlooked the airfield, and other amenities such as airport sightseeing tours.[56] However, noise and vibrations became an issue for spectator-focused areas of the airport, as these new aircraft were substantially louder than propeller aircraft. Designs began to shift away from open-air restaurants and observation decks to closed spaces that incorporated thick glass for noise dampening, to make the airfield viewing experience more comfortable, such as the restaurant within the Theme Building at LAX, completed in 1961 (see Figure 47).[57]

[53] “Lambert Field - Photograph Collection - Digital Collections,” accessed June 13, 2019, https://digital.shsmo.org/digital/collection/imc/id/13990/rec/2.

[54] Janet R. Bednarek, *Airports, Cities, and the Jet Age: US Airports Since 1945* (N.p.: Palgrave Macmillan, 2016), 130.

[55] “Briefings,” *Flying Magazine*, June 1958, 58.

[56] Zukowsky and Bosma, *Building for Air Travel*, 15.

[57] Susan F. King, *Interview with Gertrude Kerbis* (Chicago: Art Institute of Chicago, 2007), 23.

Figure 47. 1961 photograph of the Theme Building (left) at Los Angeles International Airport.[58]

By the 1970s the novelty of the jet age had diminished, and with it the incorporation of new airfield-oriented restaurants dwindled, as noted by historian Jan Whitaker.[59] While restaurants and other concessions continued to be incorporated as a necessity for travelers, interest in the airport restaurant experience waned and thus lost economic favorability by potential concession operators.

Deregulation: The demise and return of the "great hall"

After the arrival of the jet, airline deregulation wrought the next major change in airport terminal design. Signed into law by President Jimmy Carter in 1978, the Airline Deregulation Act eliminated federal oversight of the ways in which airlines set fares or determined routes, letting market conditions dictate the logistics of air travel. Architecture critic Alistair Gordon cites deregulation as "the dividing line between the modern and postmodern periods of commercial aviation – between the golden days of the jet age and the transportation agonies of today."[60]

As airlines overhauled their operations to maximize profits and efficiency, the "hub" concept centralized airline operations in a smaller number of major airports, which in turn served to connect secondary destinations. This increased the number of travelers making connections at larger regional and international airports, as less popular destinations were no longer accessible from direct routes. In turn, the airlines began using "banks" of flights, in which flights arrived and departed in staggered waves, allowing more efficient connections. This led to a drastic increase in the number of passengers in the terminals during these peak periods, many more of whom had to cross large distances in the terminal to make their connecting flights.[61] This represented a major shift in circulation patterns within the airport; where designers had previously focused on the movement of passengers between

[58] Foster and Kleiser; Hereford, Peggy G., *View of a 707 Continental Airlines Jetliner with the Los Angeles International Airport behind It, September 29, 1961*, Photograph, September 29, 1961, University of Southern California Digital Library and California Historical Society, http://digitallibrary.usc.edu/cdm/singleitem/collection/p15799coll65/id/12358/rec/8.

[59] Aarian Marshall, "When People Looked Forward to Eating Airport Food," *City Lab Design*, November 26, 2014, https://www.citylab.com/transportation/2014/11/when-people-looked-forward-to-eating-airport-food/383203/.

[60] Gordon, *Naked Airport*, 245.

[61] *Airport Cooperative Research Program Report 25, Airport Passenger Terminal Planning and Design, Volume 1: Guidebook* (Washington, D.C.: Transportation Research Board, 2010), 8.

aircraft and ground transportation, the emphasis was now on transferring within or between the terminals themselves.[62] New, larger concourses offered more retail and dining options for those with layovers. Spatial relationships between concourses were designed for efficiency, both for passenger traffic as well as for the movement of jumbo jets on the aprons and taxiways.[63]

History and evolution of air traffic control towers

Pre-World War II development

Prior to the 1930s, airport staff used flags or flashing lights to communicate with pilots as to whether or not it was safe to land.[64] As communications technology improved and became standardized, radio equipment was more commonly used to direct approaching and departing pilots. The concept of the air traffic control tower had already begun to assert itself in the late 1920s in Europe, and the 1926 design of Berlin's Tempelhof Airport included a small observation tower mounted on the roof (see Figure 48). In the United States, early examples of control rooms did not necessarily take the form of a separate, four-sided tower, but terminals often had an office space on an upper level with windows facing the airfield. A typical example was the Washington Airport completed in 1930 in Washington, D.C., which had a semicircular control room on its upper level (see Figure 49).

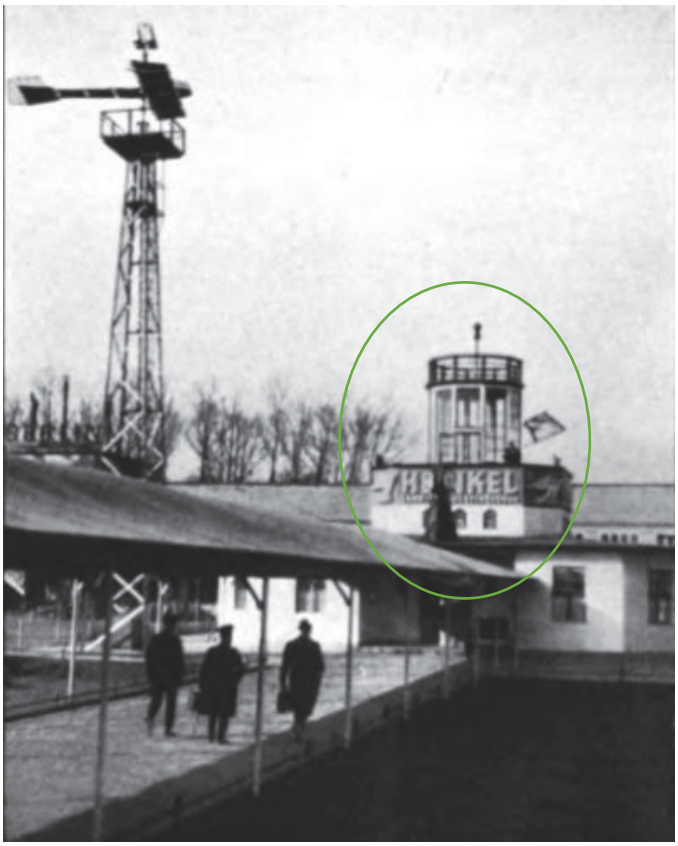

Figure 48. View of Tempelhof Airport showing small observation tower with 360-degree views.[65]

[62] Gordon, *Naked Airport*, 246.

[63] *Airport Cooperative Research Program Report 25, Airport Passenger Terminal Planning and Design, Volume 1: Guidebook*, 8.

[64] Federal Aviation Administration, "Photo Album – Air Traffic Control," template, accessed August 19, 2019, https://www.faa.gov/about/history/photo_album/air_traffic_control/?cid=begins.

[65] "Air Transportation Buildings: Terminals and Hangars," *Architectural Forum* 53 (December 1930): 737.

Figure 49. Washington Airport, 1930, as seen from the airside.[66]

The Cleveland Municipal Airport, designed in 1929, helped set the pattern for control towers that followed, becoming a model for municipal airport design in the 1930s. It featured a fully glazed, centrally mounted control tower on the terminal building's roof. This tower was the first example in the U.S. to offer 360-degree views and is also credited as the nation's first radio-equipped control tower (see Figure 50).[67] By December 1930 an article in *Architectural Forum* noted that the administrative portions of air terminals should include control and observation rooms with "an unobstructed view of the entire airport."[68] While no specific design standards appear to have been implemented at that time, other early municipal airports soon followed the example of the Cleveland airport. One of these was the Chicago Municipal Airport (later renamed Midway), which featured a central control tower atop the two-story main block of the passenger terminal (see Figure 51).

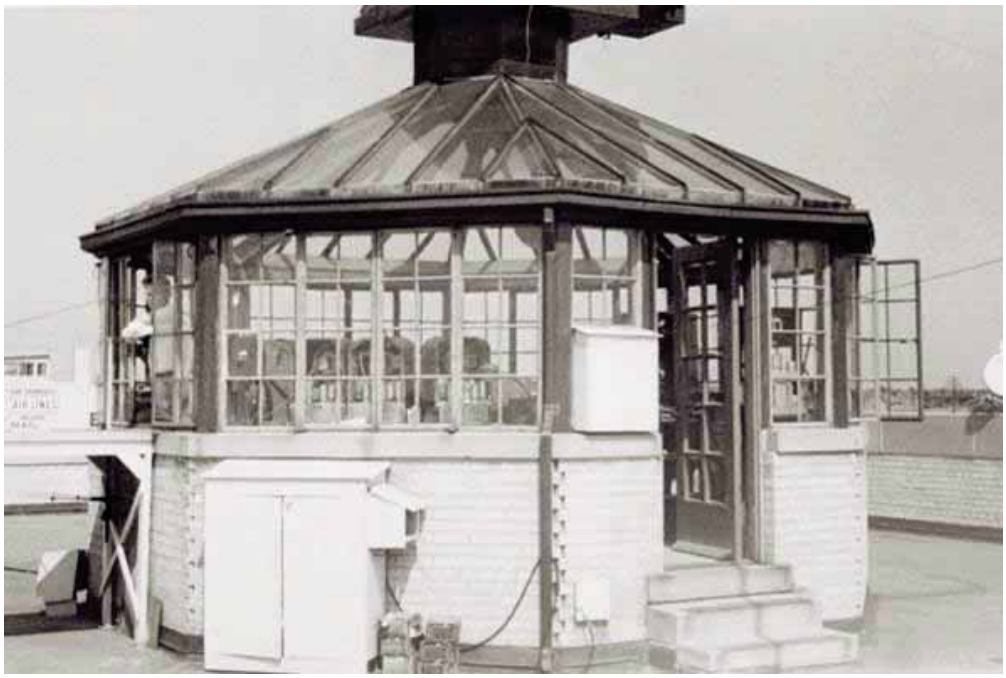

Figure 50. Original Cleveland Municipal Airport control tower on roof of terminal building, c.1930.[69]

[66] "Air Transportation Buildings: Terminals and Hangars."

[67] Edward Jay Pershey, *Cleveland Municipal Airport, Cleveland, Cuyahoga County, OH*, HAER (Washington, D.C.: Historic American Engineering Record, National Park Service, U.S. Department of the Interior, 1978), 1, 8, Library of Congress Prints and Photographs Division Washington, D.C., https://cdn.loc.gov/master/pnp/habshaer/oh/oh0100/oh0126/data/oh0126data.pdf.

[68] Roger W. Sherman, "Planning for Airport Buildings," *Architectural Forum* 53 (December 1930): 712.

[69] *Untitled [Cleveland Airport Control Tower]*, Photograph, c 1930, Image No. 2000-6114, National Air and Space Museum Archives, https://airandspace.si.edu/exhibitions/america-by-air/online/abaImage.cfm?webID=209.p3.

Figure 51. Chicago Municipal (Midway) Airport terminal building, 1932, with central control tower enclosed by glass.[70]

Advances in air traffic control continued throughout the 1930s as the rising numbers of aircraft and associated safety concerns prompted new government oversight by the federal Bureau of Air Commerce (BAC) and its successor, the Civil Aeronautics Authority (CAA).[71] Towers were an important part of the CAA's modernization program beginning in 1938, when it absorbed the BAC.[72] New airport construction during this period included control towers, while existing airports had rooftop towers added, if needed (one example is the original Washington Airport, which was built without a tower but had gained a circular glazed turret by the mid-1930s).[73] The rooftop tower was further cemented as a defining feature of the airport terminal in the numerous examples of municipal airports constructed as Works Progress Administration (WPA) projects during the Great Depression. High-profile examples from the 1940s, such as the new Washington National Airport completed in 1941 and Northeast Philadelphia Airport in 1945 (see Figure 52), incorporated a central rooftop tower with the now-familiar canted window walls that would soon proliferate in the postwar period.

[70] Chicago Department of Aviation, *Chicago's Department of Aviation Annual Report '68* (Chicago: Chicago Department of Aviation, 1968), 4, http://archive.org/details/annualreport1968chic.

[71] The CAA absorbed the BAC in August of 1938. "FAA Historical Chronology, 1926-1996," *Federal Aviation Administration*, May 18, 2019, https://www.faa.gov/about/history/chronolog_history/media/b-chron.pdf.

[72] "The Beginning of Air Traffic Control | America by Air," accessed August 19, 2019, https://airandspace.si.edu/exhibitions/america-by-air/online/innovation/innovation12.cfm.

[73] *Airports, USA, Virginia, Arlington, Hoover Field (Washington Airport); Airlines, Eastern Air Lines (USA). [Photograph]*, Photograph, mid-1930s, NASM-9A10721, National Air and Space Museum Archives, https://airandspace.si.edu/collection-objects/airports-usa-virginia-arlington-hoover-field-washington-airport-airlines-eastern.

Figure 52. Control tower atop the newly completed Northeast Philadelphia Airport, April 1945.[74]

Control towers in the jet age

The dramatic increase in air travel that occurred in the 1950s resulted in a need for improved airport facilities and air traffic control. Technological advances during this period produced a new generation of aircraft, and new electronic technology was being used to address the growing complexity of managing air traffic and communications. In the postwar period the incorporation of military technology, coupled with the rapid expansion of many airports, led to new developments in control tower design. Rather than small roof-mounted turrets, new standalone tower designs first began to emerge in this period, developing into the now-familiar form as the growing size and complexity of airfields required much larger, taller towers to provide increased visibility over longer runways and house new types of equipment and infrastructure.[75]

Foremost among the new types of equipment was the adoption of radar; developed for military use, the technology used radio waves to detect objects and determine their location, course, and speed. Even for more localized use, radar technology proved invaluable for traffic control, and was incorporated into the design of the new air traffic control tower at Idlewild Airport (now JFK). The Idlewild tower set a new standard for modern airports and was one of the earliest freestanding control towers in the world when completed in 1952.[76] Designed to provide views of a 4,900-acre area, the 11-story, 150-foot structure had a largely exposed steel frame with enclosed portions housing an elevator, three office levels, and an octagonal cab with canted window walls (see Figure 53).[77]

[74] *"Officials Inspecting Northeast Airport,"* Photograph, April 18, 1945, P372105B, George D. McDowell Philadelphia Evening Bulletin Photographs, Temple University Libraries, Special Collections Research Center, https://digital.library.temple.edu/digital/collection/p15037coll3/id/32060/rec/6.

[75] Zukowsky and Bosma, *Building for Air Travel*, 82.

[76] Zukowsky and Bosma, *Building for Air Travel*, 87.

[77] Carlton Bucher, "Supertower to Direct New York Air Traffic," *Popular Science*, June 1952, 96.

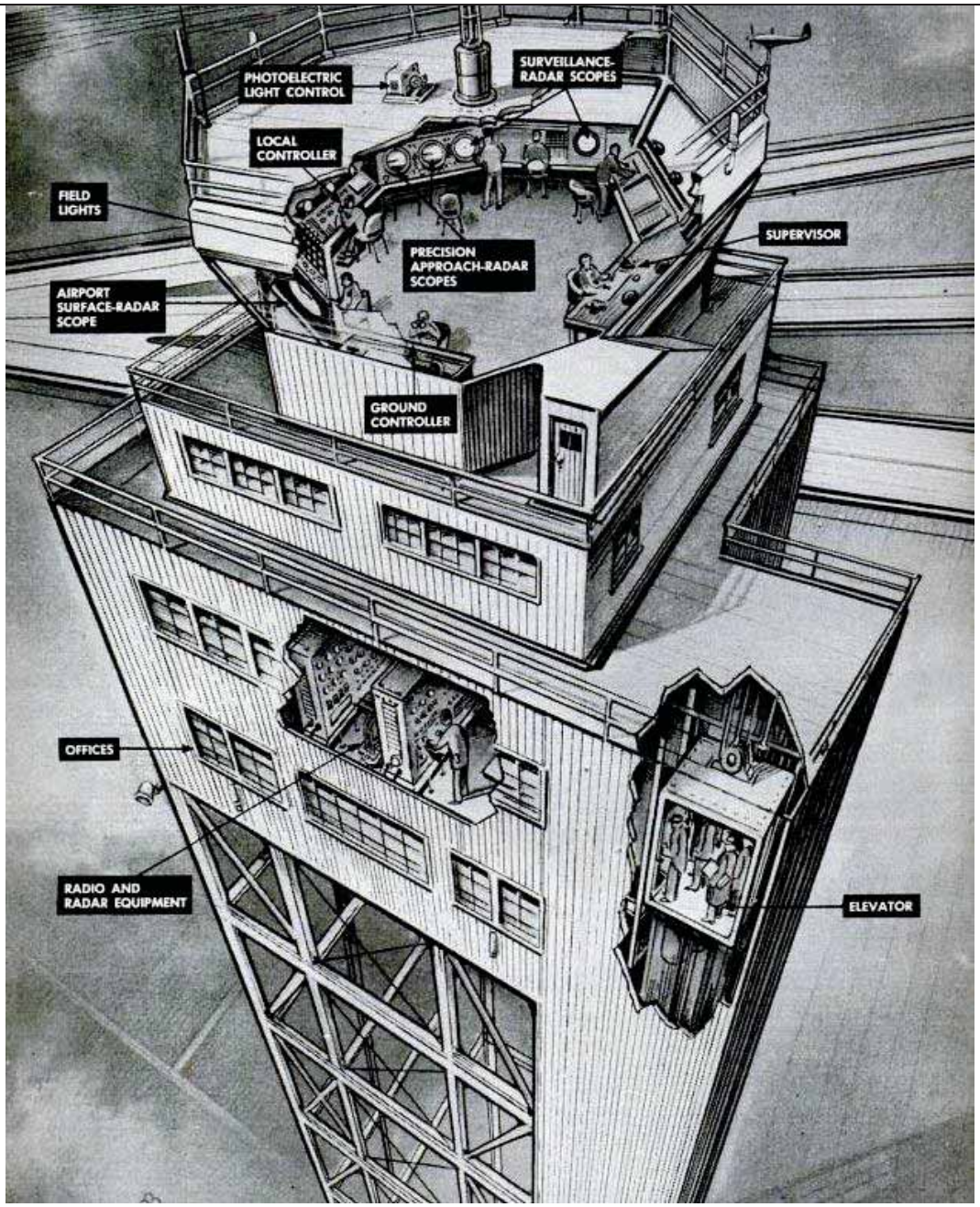

Figure 53. Artist's rendering of the new Idlewild control tower from Popular Science *magazine, June 1952.*[78]

Other similar examples soon followed, including towers at London's Heathrow Airport and the first tower at O'Hare (see Figure 54), both of which were completed in 1955.[79] These and other examples continued to display the character-defining canted window walls implemented in the 1940s, allowing a greater field of vision closer to the tower base, with the cab set atop a four-sided base. As the new building form solidified, the aesthetic form was largely dictated by function; depending on the airport size, a minimum height was required to provide a sufficient viewshed. The cab size itself was determined by the amount of equipment and number of workstations. This combination of functional requirements resulted in a columnar structure with tall narrow base to house infrastructure and fully glazed turret or "cab" at the top that contained workstations for the air traffic controllers.[80]

[78] Bucher, "Supertower to Direct New York Air Traffic," 96.

[79] Pearman, *Airports*, 148.

[80] "Architecture between Heaven and Earth: Extraordinary Control Tower Design," *Architonic*, accessed August 19, 2019, https://www.architonic.com/en/story/susanne-fritz-architecture-between-heaven-and-earth-extraordinary-control-tower-design/7000649.

Figure 54. Original O'Hare control tower, built in 1955, as it appeared in 1963.[81]

While the Idlewild, Heathrow, and early O'Hare towers have a rather utilitarian aesthetic, other examples such as those at LaGuardia and Dulles International Airport have distinctive, almost sculptural forms as architects applied themselves to the task of designing this new building type (see Figure 55 and Figure 56). By their nature, control towers were typically the tallest structure at an airport and, given the otherwise horizontal emphasis of most airport designs, offered an opportunity to create a highly visible landmark. La Guardia Airport and Dulles Airport were among the early airports to construct towers that used high-style modern design for this unusual building type.

[81] City of Chicago, Department of Aviation, *Annual Report 1963*, December 31, 1963, 6, Available in Transportation Library Digital Collection: Chicago O'Hare International Airport, Northwestern University Transportation Library, https://archive.org/details/annualreport1963chic.

Figure 55. LaGuardia control tower, 1964.[82]

Figure 56. Dulles control tower, 1962.[83]

[82] Federal Aviation Administration, *LaGuardia Air Traffic Control Tower: Celebrating a History of Excellence* (U.S. Department of Transportation, 2011), 25, https://www.faa.gov/about/history/milestones/media/LaGuardiaBooklet%20FINAL.pdf.

[83] Balthazar Korab, *Dulles International Airport, Chantilly, Virginia, 1958-63 (Expanded by Skidmore, Owings & Merrill, 1998-2000). Control Tower*, c 1962, Balthazar Korab Collection, Library of Congress Prints & Photographs Division, https://www.loc.gov/pictures/item/2018673566/.

As originally constructed in 1939, LaGuardia had a typical pre-World War II configuration with a roof-mounted control cab atop its central terminal building.[84] In the late 1950s New York's Port Authority began a $36 million program of reconstruction and improvement at the airport. As part of this program, a new control tower was designed by New York architect Wallace K. Harrison (designer of the Trylon and Perisphere, the iconic tower and globe structures at the 1939 World's Fair in New York). The 150-foot tower, with a streamlined, tapering form and whimsical "porthole" windows, was begun in 1960 and dedicated in 1964.[85] Shortly after designing the iconic TWA Terminal at JFK Airport, Eero Saarinen produced a design for buildings at the new Dulles Airport in Chantilly, Virginia. Unlike LaGuardia, Dulles was a completely new airport and Saarinen designed a comprehensive vision that included the terminal, control tower, and other support buildings. Construction began in 1958 and the airport was dedicated in 1962.[86] While the terminal itself is one of the more iconic examples of 1960s airport architecture, the 193-foot-tall control tower makes an equally striking statement, presenting a massive pagoda-like structure that rests atop a flared concrete pillar. The striking, sculptural designs of towers like LaGuardia and Dulles were the exception, rather than the rule, but served as counterexamples to the largely utilitarian towers prevalent in the early 1960s, when the federal government first became interested in the concept of architect-designed, standardized control towers.

While the tower at the subject airport is an architect-designed example, it exhibited a relatively tall tower integrated into the terminal design, rather than as a standalone building. Other examples of such towers constructed before FAA standardization include the 1961 tower at Austin's Robert Mueller airport, where the control tower was designed with graceful curves and colored spandrel glass, and the 1961 tower at Los Angeles International Airport (see Figure 57).

[84] Federal Aviation Administration, *LaGuardia Air Traffic Control Tower: Celebrating a History of Excellence*, 4.

[85] "LaGuardia Airport," *National Air and Space Museum*, accessed August 21, 2019, https://airandspace.si.edu/multimedia-gallery/11167hjpg.

[86] "History," *Metropolitan Washington Airports Authority*, May 21, 2015, https://www.flydulles.com/iad/history.

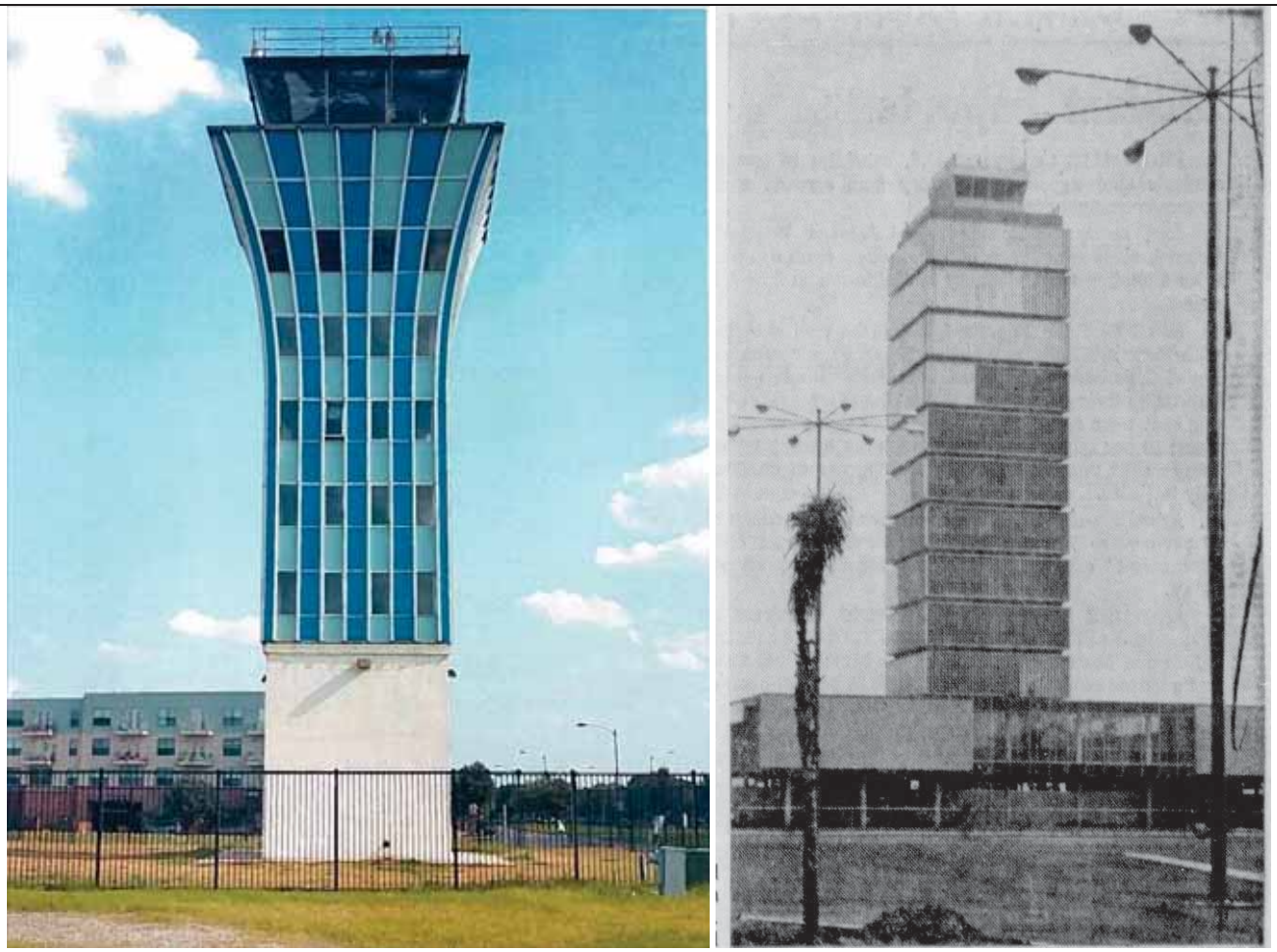

Figure 57: At left, the 1961 tower constructed at the Robert Mueller Airport in Austin, Texas. The tower was retained through demolition of the remainder of the airport.[87] At right, the 1961 tower constructed at Los Angeles International Airport as it was originally designed. The tower has since experienced alterations to its exterior.[88]

When the FAA received congressional approval to finance construction of its own control towers at airports in 1961, the agency held a contest to develop a new standardized tower design. The design was to be freestanding, so that it could be positioned in the optimal location within the airport. It was also intended to be both practical and aesthetically pleasing, what FAA Administrator Najeeb Halaby described as "a symbol of strength, beauty, and safety." [89]

The FAA held interviews in which leading architects competed to pitch their ideas for a new design. The firm of I.M. Pei & Associates (later I.M. Pei & Partners) won the commission to design the prototypical air traffic control tower in early 1962.[90] The new tower's essential form was comprised of three modular components: cab, shaft, and base building. As the design was intended to be easily modified to meet the site-specific needs of any airport, different versions of these components could be interchanged accordingly. I.M. Pei & Associates designed five standardized height shafts that could be adapted in accordance with visibility requirements in each location. In 1963 *Architectural Forum* published an image of one of the 13 variations of the I.M. Pei & Associates prototype tower (see Figure 58).[91]

[87] "C14H-2018-0010 Robert Mueller Airport Control Tower, 3952 Berkman Drive" (City of Austin, February 26, 2018).

[88] Dave Siddon, "Jet Terminal Work Pressed," *Valley Times Today*, June 22, 1961.

[89] "A Better View at Airports," *Fortune*, February 1967, 159.

[90] Philip Jodido and Janet Adams Strong, *I.M. Pei: Complete Works* (New York: Rizzoli, 2008), 93.

[91] "New Tower to Grace Airports," *Architectural Forum: The Magazine of Building*, November 1963, 113.

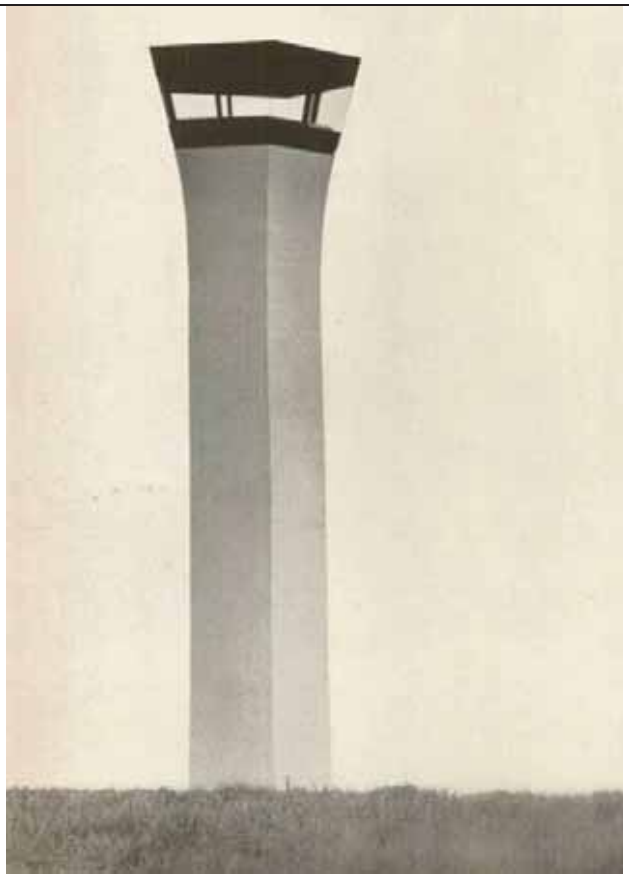

Figure 58: Model of I.M. Pei's standard design featured in the November 1963 issue of Architectural Forum.[92]

J. & G. Daverman/Daverman Associates

In Grand Rapids, the Daverman name has been associated with architecture since the turn of the twentieth century, with Dutch immigrant brothers John and Joseph Daverman operating separate firms in town, with descendants of one firm joining the other by the 1930s.[93] This section will focus on the background of J. & G. Daverman, later renamed Daverman Associates.

Father-and-son architects John (Jacob Daverman's brother) and George Daverman founded J. & G. Daverman in Grand Rapids in 1905.[94] Prior to becoming architects, both John and George worked in the city's prominent wood furniture industry.[95] In an advertisement from a 1910 city directory, J. & G. Daverman was noted as having the ability to make plans for a variety of buildings from residential to institutional (see Figure 59).[96] The firm steadily gained a positive reputation in Grand Rapids, and received several commissions in the city and region.[97]

[92] "New Tower to Grace Airports," 112.

[93] *R. L. Polk & Co.'s Grand Rapids Directory. 1889*, vol. XVII (Grand Rapids, Mich.: R. L. Polk & Co., 1889).

[94] J. & G. Daverman Company, "J. & G. Daverman Company," *Architecture and Design*, December 1947.

[95] United States of America, Bureau of the Census, *Thirteenth Census of the United States, 1910* (Washington, D.C.: National Archives and Records Administration, 1910), Ancestry.com.

[96] *R. L. Polk & Co.'s 1910 Grand Rapids City Directory*, Thirty-Eighth Edition (Grand Rapids, Mich.: Grand Rapids Directory Co., Publishers, 1910); United States of America, Bureau of the Census, *Thirteenth Census of the United States, 1910*.

[97] "Daverman Firm in Larger Offices," *Michigan Society of Architects Weekly Bulletin*, August 5, 1941, 3.

Figure 59: An advertisement for J. & G. Daverman in the 1910 Grand Rapids city directory.[98]

John—the firm's founder—died in 1937, but the firm remained in business under the J. & G. Daverman name. At some point in the 1930s, the firm reorganized and reemerged as a four-person partnership—all members of the Daverman extended family—though research did not reveal if this was before or after John's death.[99] In 1939 the firm incorporated engineering into its repertoire, and had extended its work beyond Michigan with projects listed in Iowa, Illinois, and Ohio.[100] The year 1941 also marked the completion of a major commission for the firm: the new administration building and tower (nonextant) at the previous Kent County Airport, which evoked the Streamline Moderne architectural style (see Figure 60).[101]

Figure 60: At left, a drawing of the administration building at the previous Kent County Airport, designed by J. & G. Daverman as shown on a c.1945 postcard.[102] *At right, a 1948 photograph of the administration building showing a later air traffic control cab addition atop the original third-story roofline.*[103]

During the 1950s the firm designed schools, churches, and shopping centers, and commercial retail buildings. Some of the firm's notable works included The Center, a shopping center in Omaha, Nebraska (1955); the Manistee County Courthouse in Manistee, Michigan (1952); and several public school buildings in Grand Rapids.[104] In 1956 the firm is noted as having a staff of 60, consisting primarily of architects and engineers.[105]

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[98] *R. L. Polk & Co.'s 1910 Grand Rapids City Directory*.

[99] "Daverman Firm in Larger Offices," 3; *Polk's Grand Rapids City Directory*, vol. LXV (Grand Rapids, Mich.: Grand Rapids Directory Co., Publishers, 1942).

[100] J. & G. Daverman Company, "J. & G. Daverman Company."

[101] "Airport '74," 10.

[102] *Kent County Airport, Grand Rapids, Mich.*, Postcard, c 1945, Grand Rapids Public Library Postcard Collection (Coll. 078), Grand Rapids History Center.

[103] *Airport Administration Building*, Photograph, January 22, 1948, The Robinson Studio Collection (Coll. 125), Grand Rapids History Center, https://digital.grpl.org/Detail/objects/187571.

[104] Richard Longstreth, "Department Store Branches, 1910-1960," December 1, 2009, 59; John Fedynsky, *Michigan's County Courthouses* (Ann Arbor, Mich.: The University of Michigan Press, 2010), 115.

In 1963 the firm was renamed Daverman Associates, and by this time was operating three regional offices—Petoskey, Michigan; Miami, Florida; and Milwaukee, Wisconsin—in addition to its Grand Rapids headquarters.[106] Through the 1960s the firm was awarded many major commissions and became known as one of the primary architecture firms in Grand Rapids. Its commissions during this decade included shopping centers and malls such as the North Star Mall in San Antonio, Texas (1960) and the Newton Shopping Center (1960) and Spencer Shopping Center (1960) in Des Moines, Iowa.[107] The firm designed the Southeast Dormitory Area of the University of Wisconsin (1962) and the Bissel, Inc. Plant in Grand Rapids (1959, see Figure 61) and the Pepsi Company Bottling Plant theater building in Miami, Florida (1965).[108] Some of the most recognizable works in Grand Rapids are the U.S. Post Office (1962, see Figure 62), the Old Kent Bank Building (1966, now Fifth Third Bank), and the subject 1962 Terminal Building at the new Kent County Airport. Research indicates that the 1941 and 1962 terminal buildings at the old and new Kent County Airports, respectively, are the firm's only airport commissions.

Figure 61: Drawing of the Bissell plan designed by J. & G. Daverman Company as shown in a Briggs Beautyware fixture advertisement in a 1959 issue of AIA Journal.[109]

[105] Wolverine Electric Cooperative, "Proposal to the United States Atomic Energy Commission: Nuclear Power Plant, 5,000-10,000 Kilowatts," February 1, 1956, app. A-IV.

[106] "Daverman Changes Name, Opens Wisconsin Office," *Michigan Society of Architects Monthly Bulletin*, December 1963, 16.

[107] Longstreth, "Department Store Branches, 1910-1960."

[108] "A Dramatic Plan for the University's Lower Campus," *Wisconsin Alumnus*, January 1962.

[109] "Briggs Beautyware [Advertisement]," *AIA Journal*, May 1959.

Figure 62: A 1962 photograph of the recently completed U.S. Post Office building in Grand Rapids, designed by J. & G. Daverman.[110]

In the mid-1960s and early 1970s the City of Grand Rapids took on urban renewal projects in its downtown area with a major proposal planned for the area designated Central Core-North. The City hired several builders and developers to spearhead this effort, with Daverman Associates selected as the lead developer. In its role, the firm designed the Grand Rapids Press Building (1966) and buildings as part of the Vandenberg Center (1966, see Figure 63).[111]

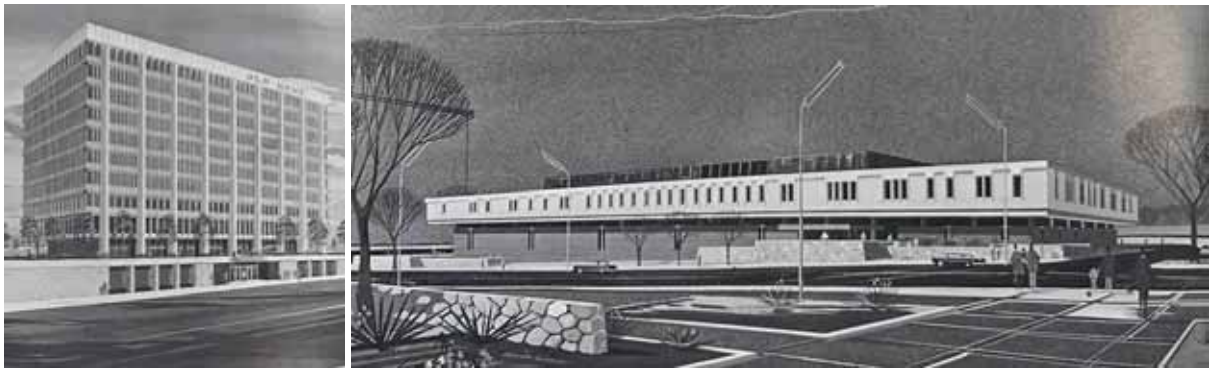

Figure 63: Daverman Associates sketches of buildings constructed as part of Vandenberg Center for the Grand Rapids Central Core-North Urban Renewal Project, showing Old Kent Bank at left (1966, extant) and the Grand Rapids Press Building at right (1966, nonextant).[112]

By the 1970s, the firm had become well-known for specializing in a variety of large-scale projects, including educational, institutional, and medical facilities, power plants, and shopping malls, among other property types. They continued to specialize in high school and college buildings and campuses, as they had in the 1960s, with major commissions including buildings for the University of Wisconsin-Green Bay (see Figure 64).[113]

[110] *Post Office*, Photograph, October 1962, William M. Glenn papers (Coll. 049), Grand Rapids History Center, https://digital.grpl.org/Detail/objects/188633.

[111] *Central Core Urban Renewal Project No. Mich. R-34, Central Core-North Urban Renewal Project No. Mich. R-60 (Vandenberg Center)* (City of Grand Rapids, 1970).

[112] *Central Core Urban Renewal Project No. Mich. R-34, Central Core-North Urban Renewal Project No. Mich. R-60 (Vandenberg Center)*.

[113] Daverman Associates, *Educational*, 1975.

Figure 64: Buildings at the University of Wisconsin-Green Bay in Green Bay, Wisconsin designed by Daverman Associates. The Library/Learning Center at left, and the College of Environmental Sciences Building at right.[114]

Notable commissions during the 1980s include the Calder Plaza Building (1981, extant) and The Furniture Company (1981, extant)—both in Grand Rapids—and the Athletics-Recreation Center at Valparaiso University in Valparaiso, Indiana (1982, extant).[115] The Furniture Company design expressed distinctively postmodern architecture, incorporating four historic buildings into a single "office and retail building" with a five-story atrium, now part of the Kendall College of Art and Design.[116] In 1987, Daverman Associates merged with Greiner Inc., which subsequently merged with the URS Corporation in 1996 to become URS Greiner, Inc.[117]

In determining significance as a work of a master architect, the National Register Bulletin *How to Apply the National Register Criteria for Evaluation* sets the threshold for what constitutes a "master" under *Criterion C*: "A master is a figure of generally recognized greatness in a field, a known craftsman of consummate skill, or an anonymous craftsman whose work is distinguishable from others by its characteristic style and quality."[118]

In viewing the history of Daverman Associates through this perspective, the firm can be considered a master architecture firm in the Grand Rapids area and the Great Lakes region as a whole.

Significance

The Terminal Building was evaluated for National Register of Historic Places (National Register) eligibility under *Criteria A*, *B*, *C*, and *D*. Evaluation under each of the National Register Criteria and discussion of period and level of significance and historic integrity is provided below.

Criterion A

Under *Criterion A*, "Properties can be eligible for the National Register if they are associated with events that have made a significant contribution to the broad patterns of our history."[119]

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[114] Daverman Associates, *Educational*.

[115] "VU Unveils Facility Plans," *The South Bend Tribune*, November 9, 1981; "Masonry Institute of Michigan 'M' Awards," *Architectural Record*, April 1982, 44–45.

[116] "Masonry Institute of Michigan 'M' Awards," 44–45.

[117] Daverman Associates, Inc., "Certificate of Amendment to the Articles of Incorporation" (Michigan Department of Commerce - Corporate and Securities Bureau, October 7, 1987), United States Securities and Exchange Commission, https://www.sec.gov/Archives/edgar/data/819541/000104746917003360/a2232088zex-3_64.htm; CSC, "Certificate of Amendment to the Articles of Incorporation" (Michigan Department of Commerce - Corporate and Securities Bureau, September 16, 1996), United States Securities and Exchange Commission, https://www.sec.gov/Archives/edgar/data/819541/000104746917003360/a2232088zex-3_64.htm.

[118] U.S. Department of the Interior, National Park Service, *National Register Bulletin: How to Apply the National Register Criteria for Evaluation* (Washington, D.C., 1990, revised 1997), 20, https://www.nps.gov/subjects/nationalregister/upload/NRB-15_web508.pdf.

[119] U.S. Department of the Interior, National Park Service, *National Register Bulletin: How to Apply the National Register Criteria for Evaluation*, 12.

The Terminal Building was opened for use in 1962 and fully completed to its initial design in 1963 as part of the original development of the new Kent County Airport in Cascade Township. The introduction of jet-engine-powered aircraft to commercial air travel in the late 1950s influenced the scale of the new airport, precipitating the airport and Terminal Building's design and operations to allow for future expansion to serve an anticipated increase in air travel. This was also in-part to secure Grand Rapids' economic standing into the future as an industrial and business center in Michigan, with facilities to accommodate passenger and commercial aviation. However, this type of activity occurred throughout the nation during the late 1950s and early 1960s, as numerous cities constructed new airports or substantially improved existing facilities to support new, larger jets that were becoming a fixture in aviation. Additionally, while the Terminal Building's design for the new airport accommodated increased aviation and allowed for larger jets, to a greater extent than facilities at old Kent County Airport, the Terminal Building is not associated with significant events related to aviation in Grand Rapids, nor did it noticeably contribute to the economy or development of the area in any way that was distinctive or a deviation from the typical national economic events of the 1950s and early 1960s. For these reasons, the Terminal Building does not possess significance for the National Register under *Criterion A* in the area of Transportation.

Criterion B

Under *Criterion B*, "Properties may be eligible for the National Register if they are associated with the lives of persons significant in our past."[120]

The Terminal Building is not associated with any persons of historical significance outside of its architects, which is addressed under *Criterion C*. Despite the airport's 1999 renaming in honor of Michigan-native President Gerald R. Ford, the Terminal Building does not demonstrate any historical events or achievements associated with Ford, and the naming is simply commemorative in nature. Therefore, the Terminal Building does not possess National Register significance under *Criterion B.*

Criterion C

Under *Criterion C*, "Properties may be eligible for the National Register if they embody the distinctive characteristics of a type, period, or method of construction, or that represent the work of a master, or that possess high artistic values, or that represent a significant and distinguishable entity whose components may lack individual distinction."[121]

The Terminal Building design embodies significant characteristics of an airport terminal of the jet age, representing this distinctive property type. The jet age had an influential impact on airport terminal design, as airports evolved to accommodate both a dramatic increase in air traffic after World War II and the larger jet-engine-powered passenger aircraft of the late 1950s. The introduction of jet aircraft prompted municipal officials across the country to design new terminals for existing airports or redesign existing terminals to accommodate the larger size of the new aircraft. This pattern of development spread across many major metropolitan regions of the country, influencing airport design changes at airports such as Idlewild Airport (now JFK) in New York, O'Hare Airport in Chicago, Lambert Field in St. Louis, and Washington-Dulles in Chantilly, Virginia, among many others. According to the original design by J. & G. Daverman, the development of the Terminal Building at Kent County Airport was a direct response to these jet-age influences.

[120] U.S. Department of the Interior, National Park Service, *National Register Bulletin: How to Apply the National Register Criteria for Evaluation*, 14.

[121] U.S. Department of the Interior, National Park Service, *National Register Bulletin: How to Apply the National Register Criteria for Evaluation*, 17.

The Terminal Building, including the incorporated tower and Concourse A, reflect general trends in airport designs of the jet age, such as ticketing and baggage claim areas fronting the landside roadway, a single-level path of travel from ticketing to the aircraft, an air traffic control tower with height required for anticipated increase in air traffic, and a concourse extending into the airfield to serve contact gates and hold rooms without requiring passengers to walk across the tarmac. As such, the Terminal Building is representative of this jet age airport terminal and air traffic control tower design with distinctive characteristics, including restaurant with expansive windows to view the new jets, and an enclosed concourse with circulation corridors leading to contact gates. Therefore, the Terminal Building possesses National Register significance under *Criterion C* for airport design of this period as a jet age-era terminal building property type.

The original design of the Terminal Building was an example of Modern architecture of the mid-twentieth century, which was a major architectural movement for Michigan. Modern design principles of this period infiltrated architecture across the United States during the 1950s and 1960s, and the original Terminal Building exhibited many distinctive characteristics of Modern architecture, including emphasis on horizontality, stylistic applications of concrete, bands of windows, and flat roofs. However, the Terminal Building cannot be appropriately evaluated for significance as an example of Modern architecture, due to its extensive alterations. While the tower's design remains intact, many other features of the building are nearly unrecognizable, and no longer display a unified design. In one instance, the primary facade of the Terminal Building that displayed this style was removed and replaced with an entirely new façade, disrupting the primary views from the roadway as one approaches the building by car. In addition to this new facade, the construction of substantial additions to all elevations of the building's Primary Form introduced different architectural character to the building that deviates from the Modern architecture of the original design. Therefore, the Terminal Building does not possess National Register significance under *Criterion C* for its Modern architecture.

The team at J. & G. Daverman/Daverman Associates are considered master architects, as described in the National Register Bulletin *How to Apply the National Register Criteria for Evaluation*. However, the Terminal Building is not the best representation of the firm's works during the 1950s and early 1960s when the firm was designing specifically Modern architecture evocative of the trends of the mid-twentieth century. The subject Terminal Building and the administration building at the old Kent County Airport are the only known works of J. & G. Daverman/Daverman Associates, whose portfolio is dominated by large-scale educational facilities, office buildings, shopping malls, and industrial plants. Other works of the firm better reflect designs that are evocative of this specific period of the firm's works, including 1961 U.S. Post Office in Grand Rapids and the 1960 North Star Mall in Austin, Texas. As such, the Terminal Building does not appropriately reflect the work of master architect J. & G. Daverman/Daverman Associates, as it is an outlier property type and does not rise to any level of particular architectural achievement compared with other works of the firm during the same period. Therefore, the Terminal Building does not possess National Register significance under *Criterion C* as a representative work of master architect J. & G. Daverman/Daverman Associates from their 1950s and 1960s period of work.

Period of significance

For its significance under *Criterion C* as an example of a jet age terminal building property type, the period of significance for the Terminal Building was determined to coincide with the completion of its initial construction: 1963.

Level of significance

The Terminal Building was evaluated for significance for representing distinctive characteristics of an airport terminal property type constructed during the jet age at the local level under *Criterion C*.

Integrity

To be eligible for inclusion in the National Register, a property must exhibit sufficient historic integrity to convey its significance, in addition to being associated with one or more of the National Register Criteria listed above. The Terminal Building was evaluated based on the seven aspects of integrity below: location, design, setting, materials, workmanship, feeling, and association.

The evaluation of integrity for the Terminal Building was assessed to a period of significance of 1963. As the Terminal Building was found to possess significance under *Criterion C*, certain aspects of integrity are to be weighted more heavily than others, according to *How to Apply the National Register Criteria for Evaluation*:

> A property significant under Criterion C must retain those physical features that characterize the type, period, or method of construction that the property represents. Retention of design, workmanship, and materials will usually be more important than location, setting, feeling, and association. Location and setting will be important, however, for those properties whose design is a reflection of their immediate environment (such as designed landscapes and bridges).[122]

This guidance was considered when assessing the integrity of the Terminal Building to its period of significance under *Criterion C*.

- **Location** – The Terminal Building remains in its original location and therefore retains integrity of location.

- **Design** – The Terminal Building retains some of its original design in the general layout, structure, and features of the primary public spaces, but has undergone substantial alterations that have affected the terminal's integrity of design as it relates to its association with jet age airport architecture during the period of significance.

  The Terminal Building has experienced several alterations to its interior and exterior, including changes to design in the waiting hall as well as removal of the second-floor restaurant and observation deck. Other critical alterations include the facade replacement along the roadway and new attached glass canopy at the primary west elevation, as well as the additions to the building's original northeast and southeast elevations, which have both substantially altered the original Modern style composition and materials that evoke airport architecture during the jet age.

  Construction of Concourse B extending to the east in the 1970s does not substantially alter the design of the Terminal Building; however, extension and additions to Concourse A no longer reflect the jet age architecture and plan of the concourse as originally designed. The air traffic control tower is the only element of the building's exterior that has not undergone substantial alterations; however, because the tower's design is wholly integrated into the entire building and therefore cannot stand alone, it cannot be assessed for integrity distinct from the whole. As such, the Terminal Building does not retain integrity of design to convey significance under *Criterion C*.

  Setting – The Terminal Building retains its integrity of setting within the larger airport complex. Despite the construction of the adjacent parking garage atop the previous surface parking lot, demolition of the nearby hotel building (part of the airport's original design) and original hangars, the Terminal Building continues to retain its general orientation and overall setting within the airport property from its period of significance. As such, the Terminal Building retains sufficient integrity of setting to convey significance under *Criterion C*.

[122] U.S. Department of the Interior, National Park Service, *National Register Bulletin: How to Apply the National Register Criteria for Evaluation*, 48.

- **Materials** – The Terminal Building has experienced changes to materials in its principal exterior and interior public spaces since its jet age-era construction. Through the expansion of the building's Primary Form to the north and east, the roadway-facing (northwest) facade replacement, alterations to Concourse A over time, and interior material changes within the main terminal building—especially the waiting hall—the Terminal Building now displays several contemporary materials that deviate substantially from the building's original construction. This includes metal tile siding that, along with glass, is the primary exterior material of the building's Primary Form and Concourse A. Interior materials are almost exclusively replacement and distinct from those used in the building's original design. For the primary interior public area—the double-height waiting room—contemporary materials include the frosted glass railing at the mezzanine, acoustical T-bar ceilings, column cladding, among others that had replaced a backlit ceiling, original wood paneling, and exposed pebbledash columns. As such, the Terminal Building does not retain integrity of materials to convey significance under *Criterion C*.

- **Workmanship** – The Terminal Building does not convey integrity of workmanship due to the substantial loss of original material caused by alterations to the main terminal building and concourses over time. While the original material of the air traffic control tower remains intact, the tower is but one part of an integral design. As such, the Terminal Building does not retain sufficient workmanship from the jet age period of its original construction to convey significance under Criterion *C*.

  Feeling – While the Terminal Building retains its continued use as an airport terminal, the principal public spaces and primary facade (facing the roadway) have been altered with the introduction of contemporary materials, which has diminished the Terminal Building's feeling as an airport terminal designed and constructed during the jet age. Apart from a distant view of the air traffic control tower, it is highly unlikely that a traveler from that period would recognize the Terminal Building when approaching the building's primary facade from the roadway. Additionally, the Terminal Building does not retain public spaces of the main interior waiting room and windows to provide the critical spectator vantagepoints south toward the airfield. While the building retains its general spatial arrangement of its most critical public spaces, including the double-height waiting hall with second-floor offices, the interior has been substantially altered to introduce contemporary materials and design elements that are entirely distinct from the original design. As such, the Terminal Building does not retain integrity of feeling to convey significance under Criterion *C*.

- **Association** – The Terminal Building retains association with the design to accommodate increased air travel and other influences of the jet age, as it retains its use as an airport terminal and continues to exhibit its orientation and plan as a main terminal building with extending concourses. Due to the retention of the general form, the Terminal Building retains its association to convey significance under *Criterion C*.

Eligibility Recommendation

The Terminal Building possesses significance under National Register *Criterion C* as an example of airport architecture from the jet age; however, it does not retain sufficient integrity with relation to design, materials, workmanship, or feeling to convey this theme from its period of significance. Therefore, due to lack of integrity, the Terminal Building is recommended not eligible for listing in the National Register.

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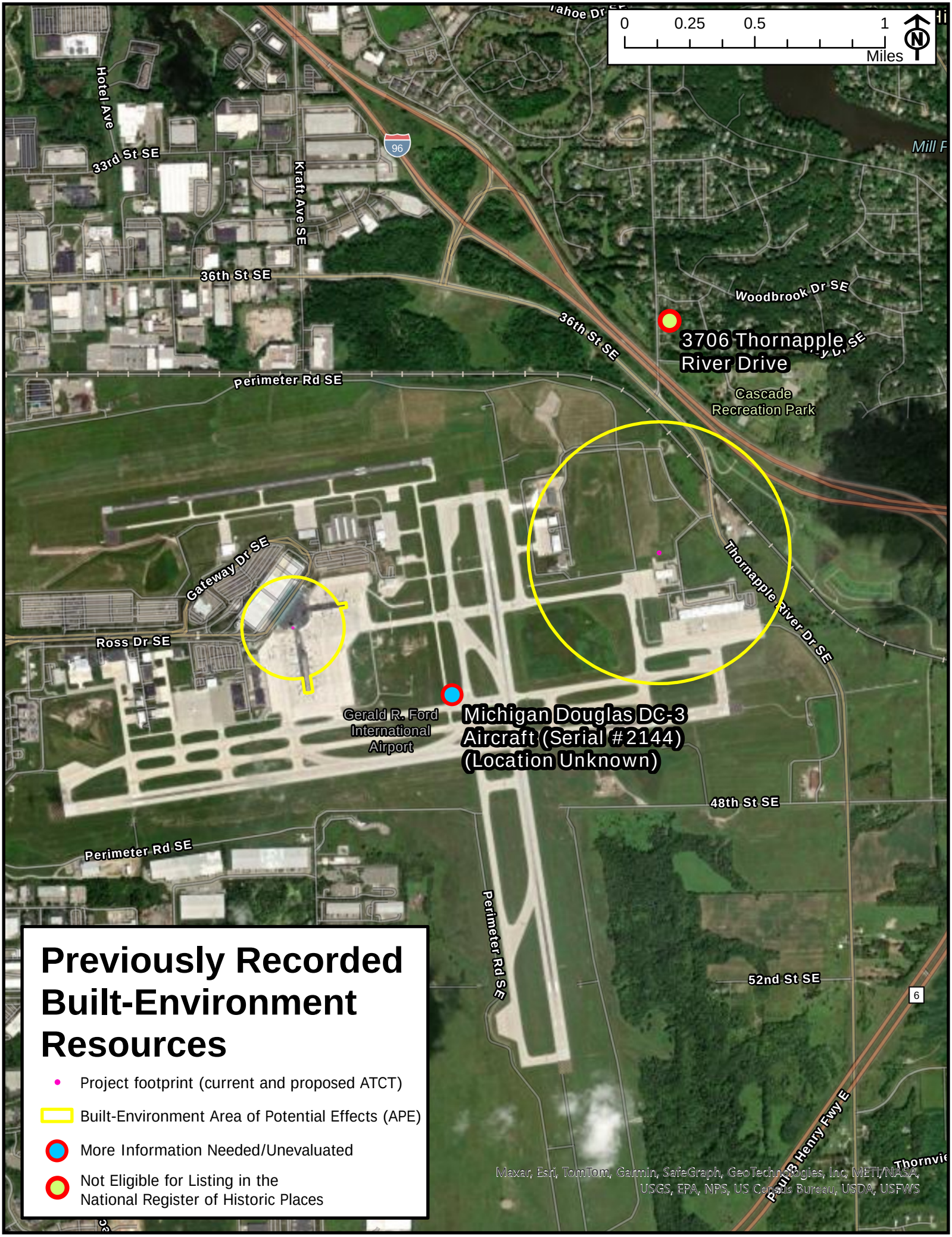
Appendix D. Previously Recorded Resources



Previously Recorded Built-Environment Resources

- Project footprint (current and proposed ATCT)
- Built-Environment Area of Potential Effects (APE)
- More Information Needed/Unevaluated
- Not Eligible for Listing in the National Register of Historic Places

My Map

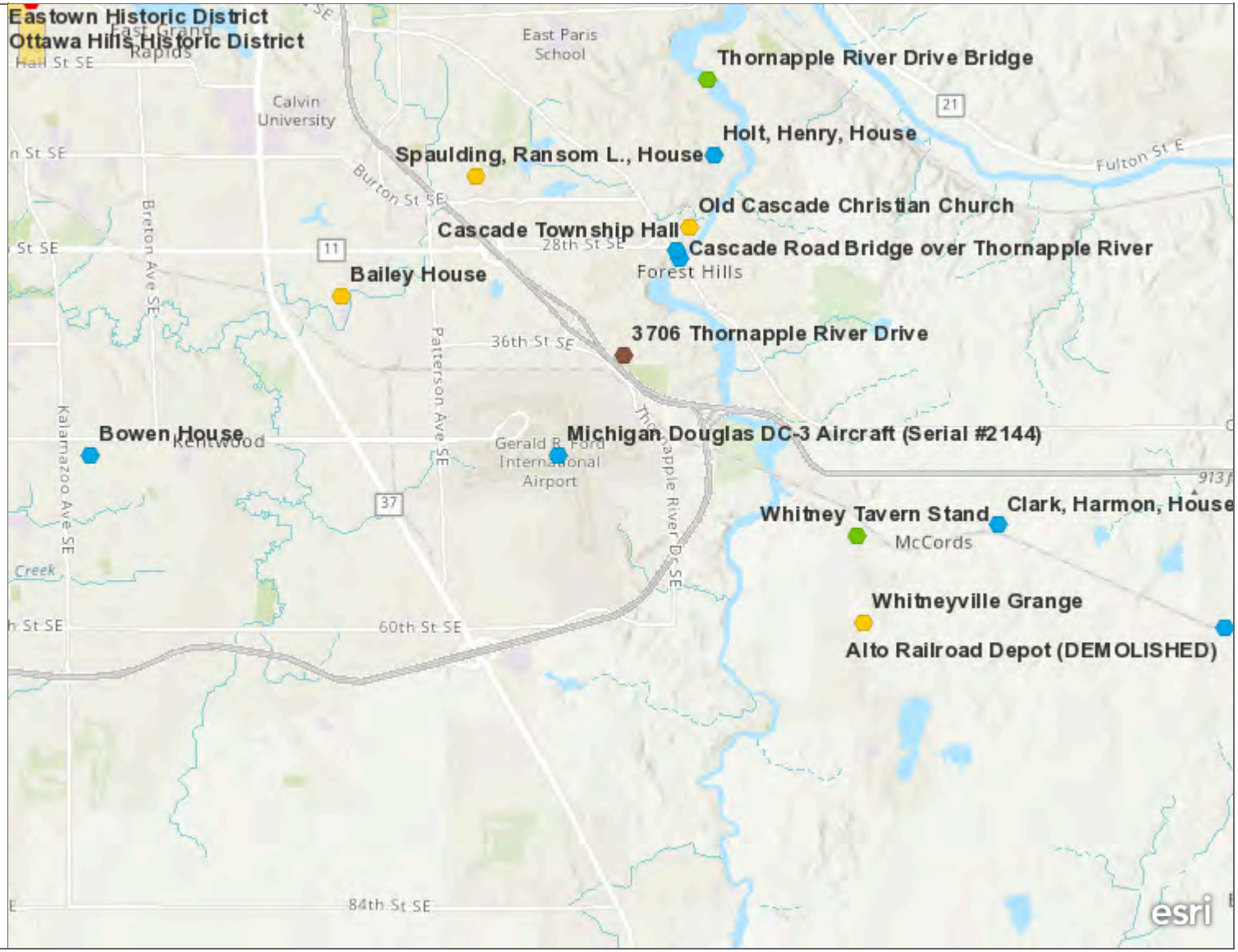
SHPO_MAP_SHPOStaff

Buildings, Objects, Structures

- Contributing
- Noncontributing
- Eligible for Listing in the National Register of Historic Places
- Not Eligible for Listing in the National Register of Historic Places
- Listed in the National Register of Historic Places
- More Information Needed/Unevaluated

Districts, Sites, Complexes

- Contributing
- Noncontributing
- Eligible for Listing in the National Register of Historic Places
- Not Eligible for Listing in the National Register of Historic Places
- Listed in the National Register of Historic Places
- More Information Needed/Unevaluated



Esri, NASA, NGA, USGS | Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, USDA, USFWS

My Map

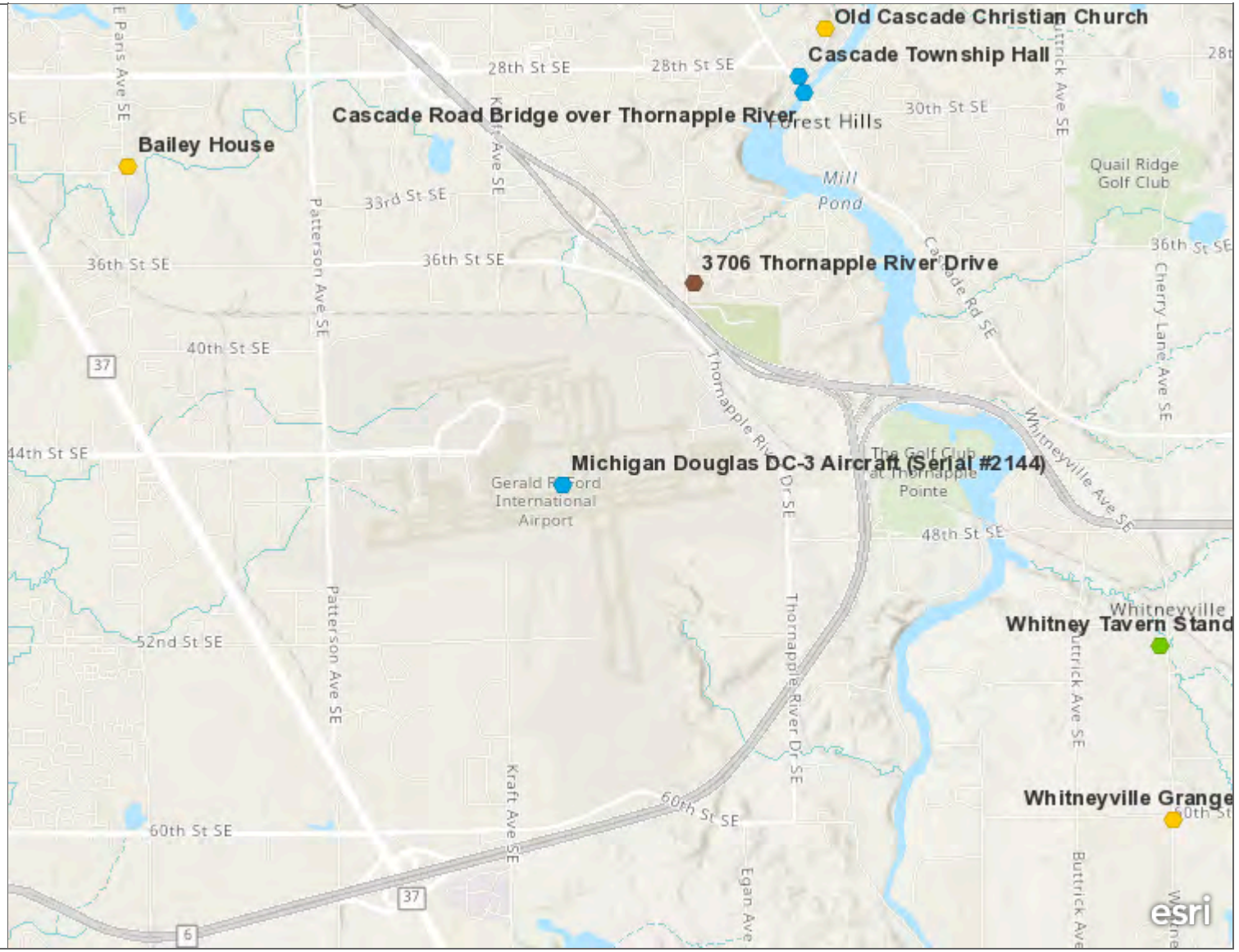
SHPO_MAP_SHPOStaff

Buildings, Objects, Structures

- Contributing
- Noncontributing
- Eligible for Listing in the National Register of Historic Places
- Not Eligible for Listing in the National Register of Historic Places
- Listed in the National Register of Historic Places
- More Information Needed/Unevaluated

Districts, Sites, Complexes

- Contributing
- Noncontributing
- Eligible for Listing in the National Register of Historic Places
- Not Eligible for Listing in the National Register of Historic Places
- Listed in the National Register of Historic Places
- More Information Needed/Unevaluated



Esri, NASA, NGA, USGS, FEMA | Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Michigan SHPO Architectural Properties Individual Property Report

Property Name	Michigan Douglas DC-3 Aircraft (Serial #2144)
Site ID	P50193
Other Name(s)	
Resource Type	Object
Street Address	5500 44th St SE
City/Township, State, Zip Code	Grand Rapids, MI
County	Kent
Lat: 42.88124	**Long:** -85.52228

Architectural Information

Significant Dates	
Architectural Style	
Foundation Materials	
Exterior Wall Materials	
Roof Materials	
Architect	
Historic Use	
Current Use	

Eligibility

Current National Register Status	More Information Needed/Unevaluated
National Register Listed Date	
National Register Criteria	A. No B. No C. No D. No
Criteria Considerations:	a. No b. No c. No d. No e. No f. No g. No
Area(s) of Significance	
Period(s) of Significance	

Narrative Architectural Description

Statement of Significance

Site Assessments

Site Assessment	Site Assessment Date	Assessment Made By	Argus Assessment Made By
More Information Needed / No Determination Made			site record created without assessment

References

, ,,

Michigan SHPO Architectural Properties Individual Property Report

Property Name	Bailey House
Site ID	590
Other Name(s)	Octagon House
Resource Type	Building
Street Address	3180 E Paris
City/Township, State, Zip Code	Kentwood, MI
County	Kent
Lat: 42.90564	**Long:** -85.56773

Architectural Information

Significant Dates	
Architectural Style	Octagon Mode
Foundation Materials	
Exterior Wall Materials	
Roof Materials	
Architect	
Historic Use	DOMESTIC/single dwelling
Current Use	DOMESTIC

Eligibility

Current National Register Status	Eligible for Listing in the National Register of Historic Places
National Register Listed Date	
National Register Criteria	A. No B. No C. Yes D. No
Criteria Considerations:	a. No b. No c. No d. No e. No f. No g. No
Area(s) of Significance	Architecture
Period(s) of Significance	

Narrative Architectural Description

The Bailey House is an octagonal house constructed in 1855 by Salman Bailey, a locally important official. Construction of the building followed the exact specifications outlined in Orson Fowlers book which had initiated the popularity of the octagon house style with its publication in 1853.

Statement of Significance

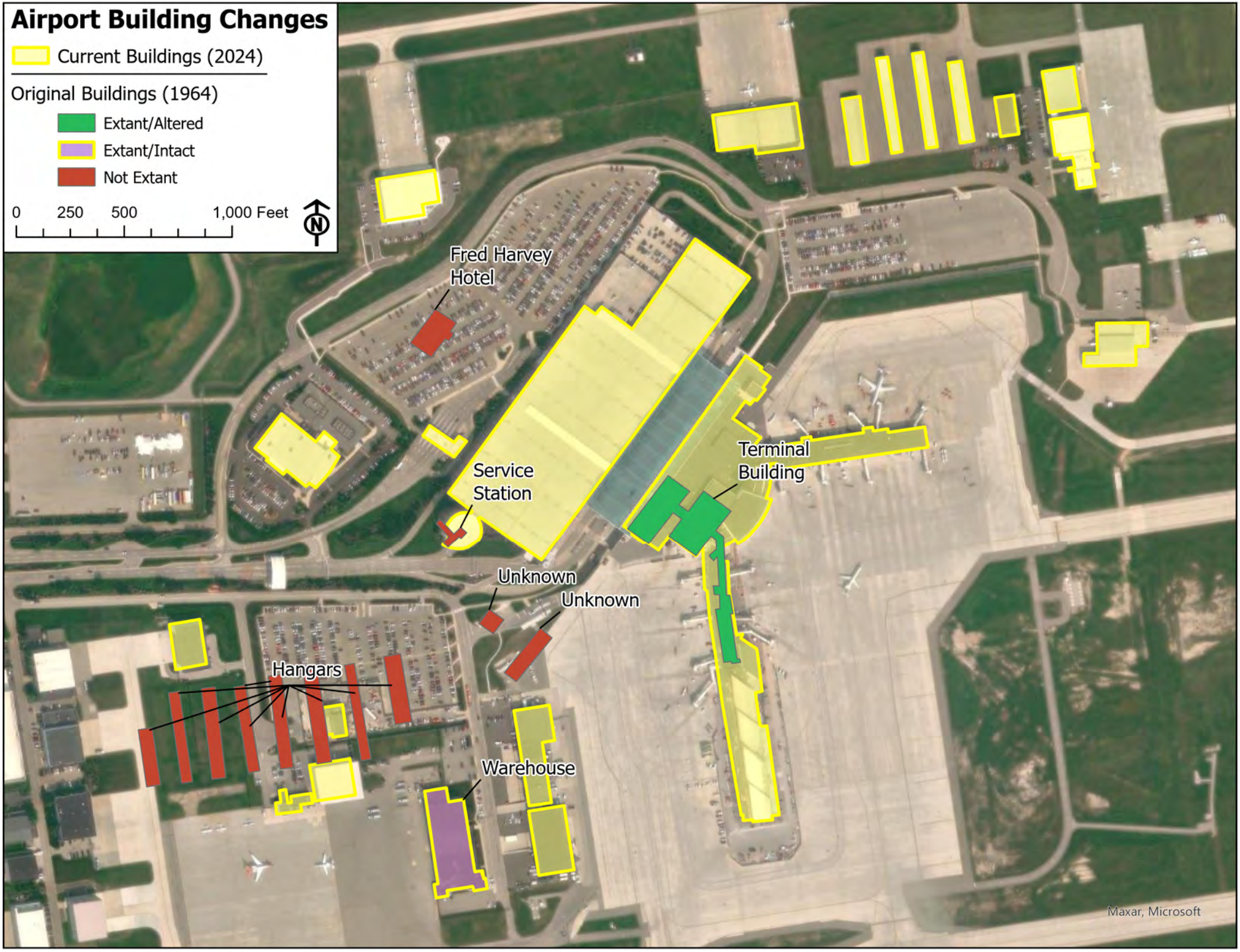
Site Assessments

Site Assessment	Site Assessment Date	Assessment Made By	Argus Assessment Made By
determined NR eligible by staff	9/19/1994		DLA (presumably under Criterion D, DRT, 2015)

References

, ,,

Appendix E. Airport Changes


Airport Building Changes
Current Buildings (2024)
Original Buildings (1964)
Extant/Altered
Extant/Intact
Not Extant
0
250
500
1,000 Feet
N
Fred Harvey Hotel
Service Station
Terminal Building
Unknown
Unknown
Hangars
Warehouse
Maxar, Microsoft

Appendix F. Phase I Archaeological Survey Report

PHASE I ARCHAEOLOGICAL SURVEY
Gerald R. Ford Airport Air Traffic Control Tower Relocation Project
Kent County, Michigan
L&A Project No: 24-0286

Prepared by:
Lawhon & Associates, Inc.
1441 King Avenue
Columbus, Ohio 43212
September 13, 2024

Prepared for:
Mead & Hunt, Inc.
2605 Port Lansing Road
Lansing, Michigan 48906

Phase I Archaeological Survey of 5 Acres (2 Hectares) for the Gerald R. Ford Airport Air Traffic Control Tower Relocation Project in Kent County, Michigan

by

Ryan A. Killion, RPA

Prepared By:
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Phone: (614) 481-8600
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www.lawhon-assoc.com

Prepared For:
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2605 Port Lansing Road
Lansing, Michigan 48906

Lead Agency:
Federal Aviation Administration

Ryan A. Killion, RPA
Principal Investigator

Andrew R. Sewell, RPA
Cultural Resources Practice Leader

September 13, 2024

MANAGEMENT SUMMARY FORM

MICHIGAN SHPO STATE HISTORIC PRESERVATION OFFICE	**SHPO USE ONLY**	**ER NUMBER:** _____ **SURVEY NO:**_____**BIB NO:**

Instructions: Insert this form after the title page of archaeological reports. This form is not required when using the Archaeological Survey Short Report Form.

REPORT TITLE: Phase I Archaeological Survey of 5 Acres (2 Hectares) for the Gerald R. Ford Airport Air Traffic Control Tower Relocation Project in Kent County, Michigan

REPORT DATE: September 13, 2024

AUTHOR(S): Ryan A. Killion

FIRM AND INTERNAL REPORT NUMBER: 24-0286

REPORT SUBMITTED TO: Mead & Hunt, Inc.

FEDERAL/STATE AGENCIES INVOLVED: Federal Aviation Administration

SURVEY TYPE, CHECK ALL THAT APPLY:

- ☐ LITERATURE/DESKTOP REVIEW
- ☒ PHASE I SURVEY, ACRES SURVEYED: 5
- ☐ PHASE II EVALUATION, ACRES INTENSIVE:
- ☐ PHASE III DATA RECOVERY, ACRES INTENSIVE:

FIELD METHODS, CHECK ALL THAT APPLY:

☐ GEOPHYSICAL SURVEY	☒ SHOVEL TESTING	☐ PEDESTRIAN SURVEY
☐ MONITORING	☐ MECHANICAL STRIPPING	☐ DEEP TESTING
☐ EXCAVATION UNITS	☐ SALVAGE EXCAVATION	☐ UNDERWATER SURVEY

COUNTY: Kent

USGS 7.5 MIN. TOPOGRAPHIC QUADRANGLE(S): Grand Rapids East

TOWNSHIP NAME	TOWNSHIP	RANGE	SECTION/PRIVATE CLAIM
Cascade	6N	10W	20, 21

SITE(S) REVISITED: ☒ NO ☐ YES, IF YES THEN LIST SITE NUMBERS:

NEW SITE(S) IDENTIFIED: ☒ NO ☐ YES, IF YES THEN LIST NEW SITE NUMBERS:

***Note**: Include site forms as an appendix to the report for all revised and new sites.*

MANAGEMENT SUMMARY ABSTRACT (1-2 sentences that summarizes method, location, and whether sites were identified)**:**

Phase I Archaeological Survey using visual inspection and subsurface excavation. No archaeological sites were identified as a result of the survey and no further archaeological investigations are recommended.

REPORT CITATION (Use American Antiquity style):

Killion, R. A. 2024. Phase I Archaeological Survey of 5 Acres (2 Hectares) for the Gerald R. Ford Airport Air Traffic Control Tower Relocation Project in Kent County, Michigan.

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Appendix A. Cultural Setting

1.0 INTRODUCTION

In August of 2024, Lawhon & Associates, Inc. (L&A), under contract with Mead & Hunt, Inc., conducted a Phase I archaeological survey of approximately 5 acres (2 hectares) at the Gerald R. Ford International Airport (GRR) in Cascade Township, Kent County, Michigan (Figure 1—Figure 3). The proposed undertaking consists of the replacement of the current air traffic control tower (ATCT) approximately one mile east of its current location. The Federal Aviation Administration (FAA) is the lead federal agency for this project.

The Area of Potential Effects (APE) is different for each project. According to 36 CFR 800, the area of potential effects is "the geographic area or areas within which an undertaking may directly or indirectly cause alterations in the character or use of historic properties, if any such properties exist. The area of potential effects is influenced by the scale and nature of an undertaking and may be different for different kinds of effects caused by the undertaking." The APE considers the effect that the proposed undertaking will have on the project area itself and on the areas surrounding the project. Direct effects are typically equivalent with the construction footprint of the project but may also include the change of visual setting to the landscape that may affect resources outside the construction footprint (aka visual effect). Indirect effects are impacts that may occur to resources outside of the construction footprint that could result in a lessening of integrity to significant resources resulting from actions and behaviors that occur after the project is completed. For example, rerouting of a stream could theoretically increase erosion elsewhere along its course, affecting a nearby archaeological site, or the improvement of a road intersection could make an area more attractive for development, irreversibly changing the character of a historical agricultural landscape. While not directly caused by the project, these effects occur as an indirect result of the completion of the project, thus are considered indirect effects.

The cultural resources survey typically addresses potential direct effects by systematically investigating the area within the construction limits for archaeological and historical resources, along with a zone outside the limits where the completed project may be visible from historical resources to assess changes in setting. However, any project action that may result in a reasonably foreseeable indirect effect within or beyond the construction limits would need to be considered as well. A full cultural resources investigation evaluates the potential effects of a project on any cultural resources that may exist within the entire APE, considering both direct effects and reasonably foreseeable indirect effects.

The Archaeological APE for this project consists of the construction limits of the proposed undertaking to account for physical effects to any potential archaeological resources. The Archaeological APE is individually distinct from the Built-Environment APE, which considers a wider area for visual effects to historic properties. Effects to the Built-Environment APE are beyond the remit of L&A's project scope and are dealt with in a separate report prepared by Mead & Hunt, Inc. The Archaeological APE is rectangular in shape, measuring approximately 482 feet by 468 feet, and covering an area of 5 acres (2 hectares).

L&A conducted the archaeological investigations for this project in accordance with Section 106 of the National Historic Preservation Act of 1966, as amended in 2016, 54 U.S.C. §300108. The Secretary of the Interior's Standards and Guidelines for Archaeology and Historic Preservation (1998) are the standards and guidelines used to develop survey methods. This document meets the standards established by the Advisory Council on Historic Preservation and the revised Section 106 (36 CFR Part 800) regulations that went into effect on August 5, 2004. The federal

standards and guidelines are supplemented by the procedures presented by the Michigan State Historic Preservation Office (MISHPO 2024a, 2024b). The goals of this survey are to determine whether archaeological resources exist within the Archaeological APE, and to determine whether any identified archaeological resources are eligible for inclusion in the National Register of Historic Places (NRHP).

L&A archaeologists completed the fieldwork for this project on August 13, 2024. The field crew included Ryan Killion, Mason Barnett, and Will Arnold. Ryan Killion served as the Principal Investigator and primary report author. Andrew Sewell reviewed and edited the report. The following report describes the research design, methods, and results of the literature review and field survey for this project. The results presented in this report are based on information collected from various literature review resources as well as photographs and field records resulting from this study.

2.0 RESEARCH DESIGN

This research design presents a framework within which the Phase I survey was conducted. The purpose of the Phase I survey is to identify any cultural resources that will be affected by the proposed undertaking, typically consisting of archaeological deposits and architectural resources 50 years or older. Once cultural resources are identified, the principal investigator evaluates each archaeological site or historic resource for characteristics of integrity and significance, which are important factors in determining eligibility of each resource for the National Register of Historic Places (NRHP). To be listed in the NRHP, a property must be significant to one or more aspects of American history, architecture, archaeology, or culture. For a property to be considered eligible, it must meet at least one of the following criteria:

A. be associated with events that have made significant contributions to the broad patterns of our history; or,

B. be associated with the lives of persons significant in our past; or,

C. embody the distinctive characteristics of type, period, or method of construction, or represent the work of a master, or possess high artistic values, or represent a significant and distinguishable entity whose components may lack individual distinction; or,

D. have yielded, or be likely to yield, information important to prehistory or history.

In addition to meeting one or more of the above criteria, a property must also possess integrity, which is how a property conveys authenticity through the survival of physical characteristics associated with the period of significance for the property. Cultural resource management (CRM) specialists evaluate integrity according to the following aspects: location, design, setting, materials, workmanship, feeling, and association. A property considered eligible for the NRHP will always display several, if not all, of the aspects of integrity. Aspects of integrity are discussed below (Little et al. 2000).

1. Location – the place where the historic property was constructed or the place where the historic event took place.

2. Design – the combination of elements that create the form, plan, space, structure, and style of the property.

3. Setting – the physical environment of a historic property.

4. Materials – the physical elements of a property. The property must retain the key exterior materials dating from the period of significance.
5. Workmanship – the physical evidence of the crafts of a culture during any given period in history.
6. Feeling – a property's expression of the aesthetic or historic sense of a period.
7. Association – direct link between an important historic event of person and a historic property.

CRM specialists typically evaluate architectural resources under NRHP Criteria A-C and archaeological sites under NRHP Criterion D. However, certain archaeological sites can also be eligible under Criteria A-C. For an archaeological site to be eligible for the NRHP, it must have the potential to yield data important in answering specific research questions important to the understanding of the past, and it must display enough physical integrity to allow proper evaluation of that data. If archaeologists cannot recover sufficient data during the Phase I survey to determine the eligibility of the resource, more intensive work may be required to determine the eligibility of the resource and consequently, the effect of the project on the resource. The principal investigator designed the Phase I survey to answer the following general set of questions:

1. Has the Archaeological APE been subjected to previous cultural resources investigations and are there any previously recorded sites or resources located within or immediately adjacent to it?
2. What is the likelihood of identifying previously unrecorded archaeological resources within the Archaeological APE? Where are these cultural resources most likely to occur?
3. Will the proposed undertaking affect any archaeological resources?
4. If archaeological resources will be affected, are any of those affected resources listed, eligible, or require further study for inclusion on the National Register of Historic Places?

3.0 ENVIRONMENTAL SETTING

The environmental setting contextualizes the cultural investigations within the natural environment. Since environmental factors influenced much of precontact activity, either directly or indirectly, the environmental setting contributes to the understanding of behaviors exhibited by the former inhabitants of an archaeological site. Environmental and geographical conditions affected the function, social status, and productivity of historical sites as well, among other factors. Understanding the environmental setting is a key element of the interpretation of archaeological sites.

3.1 CLIMATE

Kent County is in the moist continental mid-latitude climate zone, having cold winters and cool to warm summers. The annual rainfall in the county is approximately 38.2 inches, with most falling in September (4.32 in) and least in February (1.79 in). The average annual high temperature in the county is 58ºF and the low is 40ºF. The county averages approximately 76 inches of snow per annum (US Climate Data 2024).

3.2 PHYSIOGRAPHY AND GEOLOGY

The Archaeological APE in Kent County is in the Fruit Ridge Terrain section of the Southern Lower Peninsula Hills and Plains region. Topography within this part of the county is characterized as a heterogeneous mix of glacial hilly and rolling landscapes associated with the Saginaw, Lake Michigan and Huron-Erie lobes of the Laurentide ice sheet. The Michigan Formation is recorded as the bedrock geology of the Archaeological APE (MGS WMU 2024; MSU 2024a). The local topography of the Archaeological APE can be characterized as completely flat with a narrow drainage channel that runs through the central and southwestern portion (Figure 4).

3.3 SOILS

The Archaeological APE is located within the Ithica-Rimer-Perrinton soil association (USDA SCS 1986). The association contains nearly level to gently rolling, well drained to somewhat poorly drained, loamy and sandy soils that formed in loamy, sandy, silty, and clayey deposits. Blount loam (19B, 2 to 6 percent slopes) is the only soil type present within the Archaeological APE. Blount loam consists of very deep, somewhat poorly drained soils that formed in till and on wave-worked till plains, till plains, and near-shore zones (Figure 5; USDA NRCS 2024).

3.4 HYDROLOGY

The Archaeological APE is drained directly by the Thornapple River located one mile to the east. Thornapple River flows north into the Grand River which outlets into Lake Michigan near Grand Haven.

3.5 FLORA AND FAUNA

Prior to settlement in the region, natural phenomenon such as glaciations during the Pleistocene and the associated climate changes had a major effect on plant and animal communities. As the glaciers retreated and the climate warmed, tundra ecosystems with their characteristic plant and animal life retreated north, and forests covered much of Michigan, bringing with them an entirely different community of life.

The modern animal and plant life in the county bears little resemblance to those present prior to wide-scale nineteenth century settlement in the region. These changes are attributable to habitat loss and change, purposeful extirpation of predators, unchecked hunting, and introduction of non-native species. Early settler accounts of the region provide useful information on the original ecosystem of this part of the state, supplemented by information from the archaeological record. The earliest recorded land surveys classified the natural vegetation in this region as deciduous oak, hickory, ash-elm, and black walnut forestation (MSU 2024b).

The modern pattern of land use has altered historical animal and plant community distributions and populations. The fauna historically inhabiting the general region of the survey area included several species of mammals, birds, reptiles, amphibians, and fish. Many species are no longer present due to the drastic habitat changes in the region, competition with invasive species, and historical periods of overhunting.

In summary, the environmental information indicates a rich precontact environment with a variety of resources. A variety of plants characterized a diverse floral environment exploitable by humans and animals. Animal life provided a source of protein and raw material for clothing and tools. All these factors indicate that this area possesses potential for the presence of archaeological sites within the Archaeological APE.

4.0 LITERATURE REVIEW

The literature review study radius is 2 kilometers (km), or 1.2 miles, from each exterior corner of the proposed undertaking limits. This size is usually adequate to provide the necessary contextual information regarding previously identified cultural resources and historical information on the Archaeological APE. The report author examined the following sources from the Michigan State Historic Preservation Office and various online resources.

- Hinsdale's 1931 Archaeological Atlas of Michigan
- Michigan Archaeological Site Files
- Contract Cultural Resource Management Reports
- Michigan SHPO Architectural Properties Database
- National Historic Landmark listings
- NRHP listings and nomination form files
- USGS 7.5' and 15' series topographic maps, historical aerial photographs, and Kent County historic atlases

4.1 ARCHAEOLOGICAL ATLAS OF MICHIGAN

The *Archaeological Atlas of Michigan* (Hinsdale 1931) does not indicate any precontact resources within the literature review study radius (Figure 6). The closest resource shown near the Archaeological APE is a village site two miles to the southeast on the east side of Thornapple River. Hinsdale (1931) recorded a total of 12 villages, four burying grounds, 41 mounds, and one circular enclosure across Kent County.

4.2 SHPO DATABASE REVIEW

The Michigan Archaeological Site Files indicate that there are no previously recorded archaeological sites within or adjacent to the Archaeological APE (Figure 7). There are seven previously recorded archaeological sites within the 2-km study radius for the project; none of these sites will be impacted by the proposed undertaking (Table 1).

Table 1. Previously Recorded Archaeological Sites within the Study Radius

Site #	Site Type	Temporal Affiliation	Site Size (m^2)
KT25	Village	Archaic	54,762
KT162	Unknown	Middle Woodland	1,933,827
KT196	Unknown	Unassigned Precontact	2,579
KT197	Dump	Historic	1,563
KT198	Unknown	Unassigned Precontact	1,563
KT276	Farmstead	Historic	3,386

Site #	Site Type	Temporal Affiliation	Site Size (m^2)
KT277	Unknown	Unassigned Precontact	2,283

A review of the contract CRM reports indicated a total of eight previously conducted surveys within the study radius (Table 2; Figure 7). No portion of the Archaeological APE has been previously surveyed.

Table 2. Previous Surveys within the Study Radius

Survey ID #	Title	Author	Date
ER-183	A Preliminary Archaeological Survey of Proposed Kent County Airport Development, Grand Rapids, Michigan. University of Michigan, Museum of Anthropology.	Black and Black	1976
ER-2678	Bale Fill and Sludge Disposal Site, Cascade Township, Kent County, Michigan. Grand Valley State Colleges.	Flanders	1979
ER-7622	Phase I Archaeological and Architectural Survey and Phase II Archaeological Testing, Proposed Construction of M-6, the Grand Rapids South Beltline, Kent and Ottawa Counties, Michigan. R-0036.	Weir et al.	1994
ER-910190	Cultural Resources Survey, Kent County Airport Wetland Mitigation Site, Kent County, Michigan R-0177.	Robertson et al.	1994
ER-910190	Cultural Resources Survey Kent County International Airport Wetland Mitigation Site, Kent County, Michigan. Addendum Report I.. R-0201. Addendum Report I.	Robertson et al.	1995
ER-910190	Intensive Level Survey of Above-Ground Resources for the 1-96 Airport Area Access Study, Cascade Township, Kent County, Michigan.	Linn and Weir	2001
ER-910190	Phase I Archaeological Survey I-96/Airport Area Access Study, Cascade Township, Kent County, Michigan R-0401. Commonwealth	Robertson and Taylor	2001

Survey ID #	Title	Author	Date
ER-910190	Cultural Resources Assessment for the Gerald R. Ford International Airport Stormwater/Deicing Management Program, Grand Rapids, MI.	Venno	2013

A review of the Michigan SHPO Architectural Properties database did not indicate any resources within the literature review study radius (Figure 7). There are also no NRHP listings, nomination form files, or historic districts within the 2-km literature review study radius.

4.3 HISTORICAL MAPS AND AERIAL PHOTOGRAPHY

Examination of available historical maps dating to the mid-nineteenth century allows for a reconstruction of landscape history and can identify the potential for historical sites. The 1876 Plat of Cascade Township (Figure 8) shows the Archaeological APE split across the parcels of M. Pierce, W. Hennesy, M. Cook, and C. Shea. All four parcels have a building indicated on them although none are located within the Archaeological APE. A north-south oriented road is shown running directly through the center of the Archaeological APE.

United States Geological Survey (USGS) topographic maps do not record landownership; however, they do offer a glimpse into the natural and built environment of the area through the early- and mid-twentieth century. The 1914 Grand Rapids and 1918 Lowell, Michigan 15' Series Topographic Maps (Figure 9) show a nearly identical environment to the 1876 map. The only major change in the broader area was the construction of the Pere Marquette Railroad located to the north and east of the Archaeological APE. The 1978 Alto, 1967 Caledonia, 1978 Cascade, and 1967 Grand Rapids East 7.5' Series Topographic Maps (Figure 10) show major development of the area from the previous maps including the construction of the Kent County Airport and Interstate 96. All four buildings from the previous maps were demolished by this time and a new building is shown approximately 65 feet (20 m) south of the Archaeological APE. The north-south oriented road was still extant in the center of the Archaeological APE at the time.

Aerial photographs depicting the Archaeological APE (NETR 2024; Google Earth) are available from as early as 1955. The environment at the time was very similar to that depicted in the 15' series topographic maps. Between 1955 and 1960 a new building to the south of the Archaeological APE was constructed. The Archaeological APE then remains unchanged until sometime between 1988 and 1999 when the entire area was graded and prepared for an expansion of the airport. The next available aerial photograph is from 2003 that shows the Archaeological APE as it exists today.

5.0 CULTURAL SETTING

The historic context provides a framework for evaluating the integrity and significance of any identified cultural resources. The principal investigator uses the context to assess a sites' ability to contribute to the existing historic knowledge of a region. The report authors derived the following contexts from previously reported information from throughout the region and identified in the immediate area through previous archaeological and historical research. While not all these contexts may be identified within the Archaeological APE during the survey, the established contexts are presented in chronological order to understand the relationships between different

temporal periods and the continuum of cultural development that occurred in this area. It should be noted that these periods are defined through cultural expressions, and that the ranges of time associated with each period will likely overlap in different parts of the region, as some precontact groups may not have adapted a new cultural expression at the same time as other groups, or indeed even at all. A full discussion of the cultural context for the Archaeological APE is included as Appendix A, including reviews of the precontact cultural periods and the historic context for the State of Michigan, Kent County, and Cascade Township.

5.1 HISTORY OF THE ARCHAEOLOGICAL APE

The Archaeological APE consisted primarily of undeveloped/agricultural land up through the mid-twentieth century until the establishment of Gerald R. Ford Airport, which began construction in 1959. The airport was known at the time as the Kent County Airport and it was relocated to its current location to increase capacity and meet the demands of the area. Construction of the new airport was finished in 1963, and it was renamed Kent County International Airport in 1977; by 1999, the name changed to its current appellation. The latter half of the twentieth and early twenty-first century saw major renovations and upgrades to the airport including new runways and facilities (GRR 2024). The Archaeological APE was untouched by the ever-expanding airport until sometime between 1988 and 1999, when the entire area was completely graded and prepared for the construction of new roads, buildings, and fencing.

5.2 ARCHAEOLOGICAL SENSISIVITY OF THE ARCHAEOLOGICAL APE

The principal investigator used information from the literature review, environmental context, and cultural contexts to establish a baseline archaeological sensitivity assessment of the Archaeological APE. This assessment uses data on soil types, hydrology, and landform to identify areas amenable to past occupations, then applies information from previously identified site locations (if any), cultural contexts, and historical maps and aerial photography to determine the archaeological sensitivity. The principal investigator determined that the entire Archaeological APE has low archaeological sensitivity. The determination of low sensitivity is based on the poorly drained soils, the limited number of previously identified archaeological sites, and the extensive grading at the end of the twentieth century.

6.0 RESEARCH QUESTIONS 1 AND 2 DISCUSSION

The first two research questions address the relationship of previous surveys and previously recorded sites/resources to the proposed undertaking and the likelihood of encountering previously recorded cultural resources within the proposed undertaking area. These questions can be answered using the information collected from the literature review and application of the environmental and cultural contexts to the specific ecological history of the project location.

1. *Has the Archaeological APE been subjected to previous cultural resources investigations and are there any previously recorded sites or resources located within or immediately adjacent to it?*

   The Archaeological APE has not been previously surveyed and there are no previously recorded sites or resources located within or immediately adjacent to it.

2. *What is the likelihood of identifying previously unrecorded archaeological resources within the Archaeological APE? Where are these cultural resources most likely to occur?*

   The likelihood of encountering previously unrecorded archaeological resources is low. The Archaeological APE contains poorly drained soils, has been subjected to heavy disturbance related to the eastward expansion of the airport, and analysis of available historical maps and aerial photographs indicates that no buildings or structures have ever existed within it.

7.0 METHODS

7.1 ARCHAEOLOGICAL FIELD METHODS

The field crew used two methods of investigation during the archaeological survey: visual inspection and subsurface excavation. The field director recorded additional information such as field conditions, methods of investigation, and site locations. The crew documented all identified cultural resource locations using a Trimble R1 GNSS receiver (sub-meter accuracy) with a GPS enabled iPad operating Esri ArcGIS for data collection. The crew took photographs of the Archaeological APE as deemed appropriate. The field director kept a GIS photolog record keyed to project mapping.

7.1.1 VISUAL INSPECTION

The crew visually inspected the entire surveyed area to identify readily apparent cultural resources, such as mounds, earthworks, buildings, or structural remnants of such. The crew also documented areas of disturbance, steep slope, and any inundated areas (i.e., wetlands, streams, ponds, etc.), which would preclude physical testing.

7.1.2 SUBSURFACE EXCAVATION

Systematic STU excavation took place in areas with less than 15 degrees of slope and poor ground surface visibility (less than 50 percent) that had not previously been subjected to standardized archaeological survey. The crew excavated STUs at 15 m (50 ft) intervals, and each unit measured 50 cm^2 (19.7 in^2). Crew members troweled the walls and floor of each unit clean to determine the depth of the plow zone and if in situ cultural remains were present. The crew screened all soil from each STU through 0.64-cm (0.25-in) hardware cloth to aid in the recovery of any cultural material present. The field director took notes on the soil color, texture, depth, and the presence or absence of artifacts for each STU.

Shovel probe excavation took place in areas with suspected disturbance. The shovel probes measured 30 cm on a side and were excavated to a depth that allowed for an accurate depiction of the disturbed nature of the area (usually 15-20 cmbs). The crew excavated probes at 50-foot (15 m) intervals. The crew visually inspected and troweled through soil in shovel probes but did not systematically screen for artifacts. If a crew member found the soils in a shovel probe to be relatively intact, the crew member excavated a full shovel test unit (STU) instead.

7.2 ARTIFACT ANALYSIS METHODS

The artifact analysis for the project is tailored to the specific classes of material recovered during the survey. As no artifacts were recovered or observed, this typical report section is omitted here.

8.0 RESULTS OF THE ARCHAEOLOGICAL SURVEY

L&A conducted fieldwork on August 13, 2024. Weather during the survey was sunny and hot (85°F) and did not hinder the completion of fieldwork. The crew used subsurface testing and visual inspection to survey the Archaeological APE (Figure 11). Subsurface testing documented evidence of severe disturbance throughout the Archaeological APE, not visible from the surface, related to the grading of the area between 1988 and 1999 (Photo 1–Photo 7). No sites or features of archaeological interest were identified.

8.1 VISUALLY INSPECTED AREAS

The crew visually inspected the Archaeological APE for surface evidence of archaeological sites apart from artifacts, as well as to identify any areas of disturbance that would have removed archaeological deposits or prevent survey. There were no indications of any archaeological features such as mounds, earthworks, or depressions such as cellar holes or outhouse shafts observed within the APE. There were no areas that precluded subsurface testing within the Archaeological APE.

8.2 SUBSURFACE EXCAVATIONS

After the visual inspection was finished, the crew proceeded with subsurface investigations. The crew excavated a total of 69 shovel test units and 30 shovel probes. The designation of shovel probe for this project was reserved for severely disturbed units that had a high percentage of gravel and compacted soil. It is important to note that the entire Archaeological APE showed signs of disturbance related to the grading of the area between 1988 and 1999. The topsoil (Ap horizon) within the shovel test units generally resembled the Blount loam mapped in the area and consisted of a dark grayish brown (10YR 4/2) silt loam. The subsoil (Btg horizon) contained a moderate amount of gravel and was extremely mottled. The subsoil consisted of a mix of the topsoil, a grayish brown (10YR 5/2) silty clay, and a yellowish brown (10YR 5/6) silty clay. The occurrence of disturbance is clearly evidenced by the severe mottling and the historic aerial photographs. A typical test unit and shovel probe showing disturbed soils are depicted in Figure 12.

9.0 RESEARCH QUESTIONS 3 AND 4 DISCUSSION

After completing analysis of the results of fieldwork, the second two research questions, regarding whether the proposed undertaking will affect any cultural resources, and if so, are those affected resources listed, eligible, or potentially eligible for the NRHP, can be addressed.

3. *Will the proposed undertaking affect any archaeological resources?*

   The proposed undertaking will not affect any archaeological resources.

4. *If archaeological resources will be affected, are any of those affected resources listed, eligible, or require further study for inclusion on the National Register of Historic Places?*

   No archaeological resources will be affected.

10.0 SUMMARY AND CONCLUSIONS

In August of 2024, L&A, under contract with Mead & Hunt, Inc., conducted a Phase I archaeological survey of approximately 5 acres (2 hectares) at the Gerald R., Ford International Airport (GRR) in Cascade Township, Kent County, Michigan. No sites or features of archaeological interest were identified and the entire Archaeological APE showed signs of disturbance related to the grading of the area between 1988 and 1999. It is the opinion of L&A that there is no potential to encounter archaeological sites within the Archaeological APE and no further archaeological investigations are recommended in connection with the proposed undertaking.

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12.0 FIGURES

Site Location Map

Legend

Archaeological APE

0 1 2 4 6 8 Miles

GRR ATCT
Relocation Project

Kent County with an Overview of Michigan

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	1

Source:

File Name: 01-County.mxd

Edited: 9/12/2024 By: afraley

Site Location Map

Legend

Archaeological APE

0 500 1,000 2,000 Feet

GRR ATCT
Relocation Project

Modern Topographic Map

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	2

Source:

File Name: 02-Modern Topo.mxd

Edited: 9/12/2024 By: afraley

Site Location Map

Legend

Archaeological APE

0 25 50 100 150 200

Feet

GRR ATCT
Relocation Project

Modern Aerial Imagery Map

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	3

Source:

File Name: 04-LiDAR.mxd

Edited: 9/12/2024 By: afraley

Site Location Map

Legend

Archaeological APE

0 100 200 400 600 800
Feet

GRR ATCT
Relocation Project

LiDAR-Based Digital Surface Model

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	4

Source:

File Name: 04-LiDAR.mxd

Edited: 9/13/2024 By: afraley

Site Location Map

Legend

Archaeological APE

Soil type

19B

0 25 50 100 150 200 Feet

GRR ATCT
Relocation Project

Soils Map

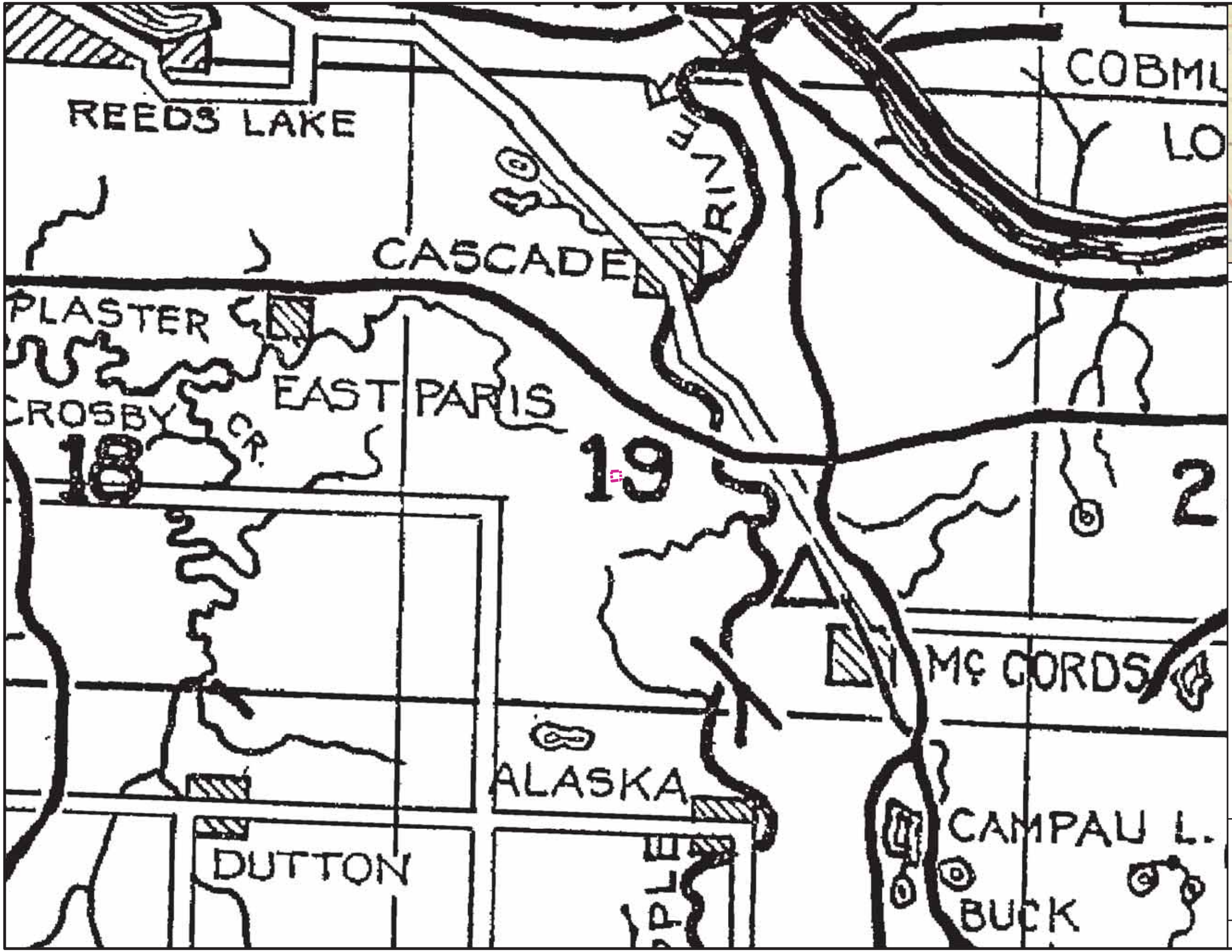
Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	5

Source:

File Name: 05-Soils.mxd

Edited: 9/12/2024 By: afraley



Site Location Map

Legend

Archaeological APE

0 0.5 1 Miles

GRR ATCT
Relocation Project

Detail of Kent County map from Hinsdale 1931

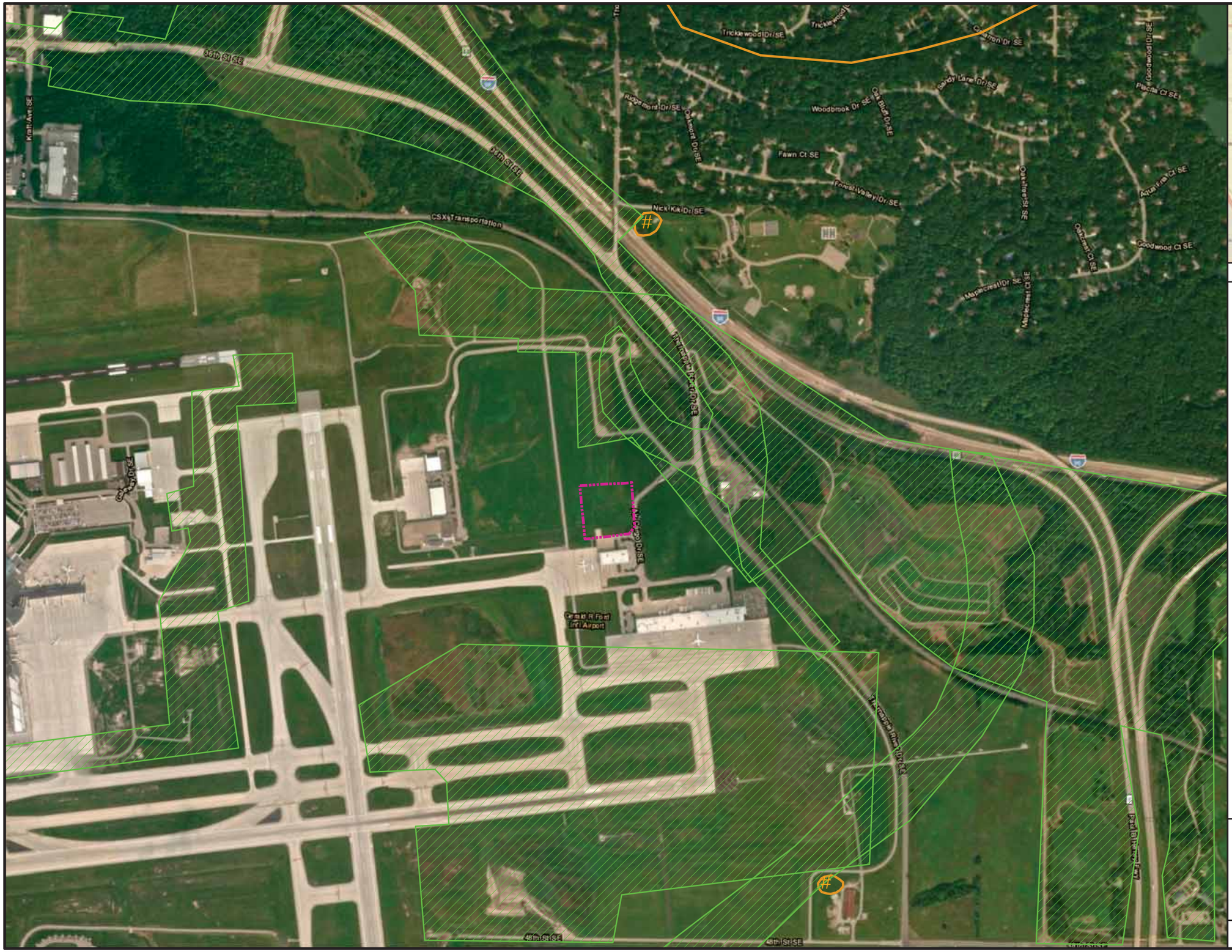
Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	6

Source:

File Name: 06-1931 map.mxd

Edited: 9/13/2024 By: afraley



Site Location Map

Legend

- Archaeological APE
- # Archaeological Sites
- Site Boundaries
- Previously Surveyed Area

0 500 1,000 Feet

GRR ATCT
Relocation Project

Previously Identified Cultural Resources and Surveys

Lawhon & Associates, Inc.

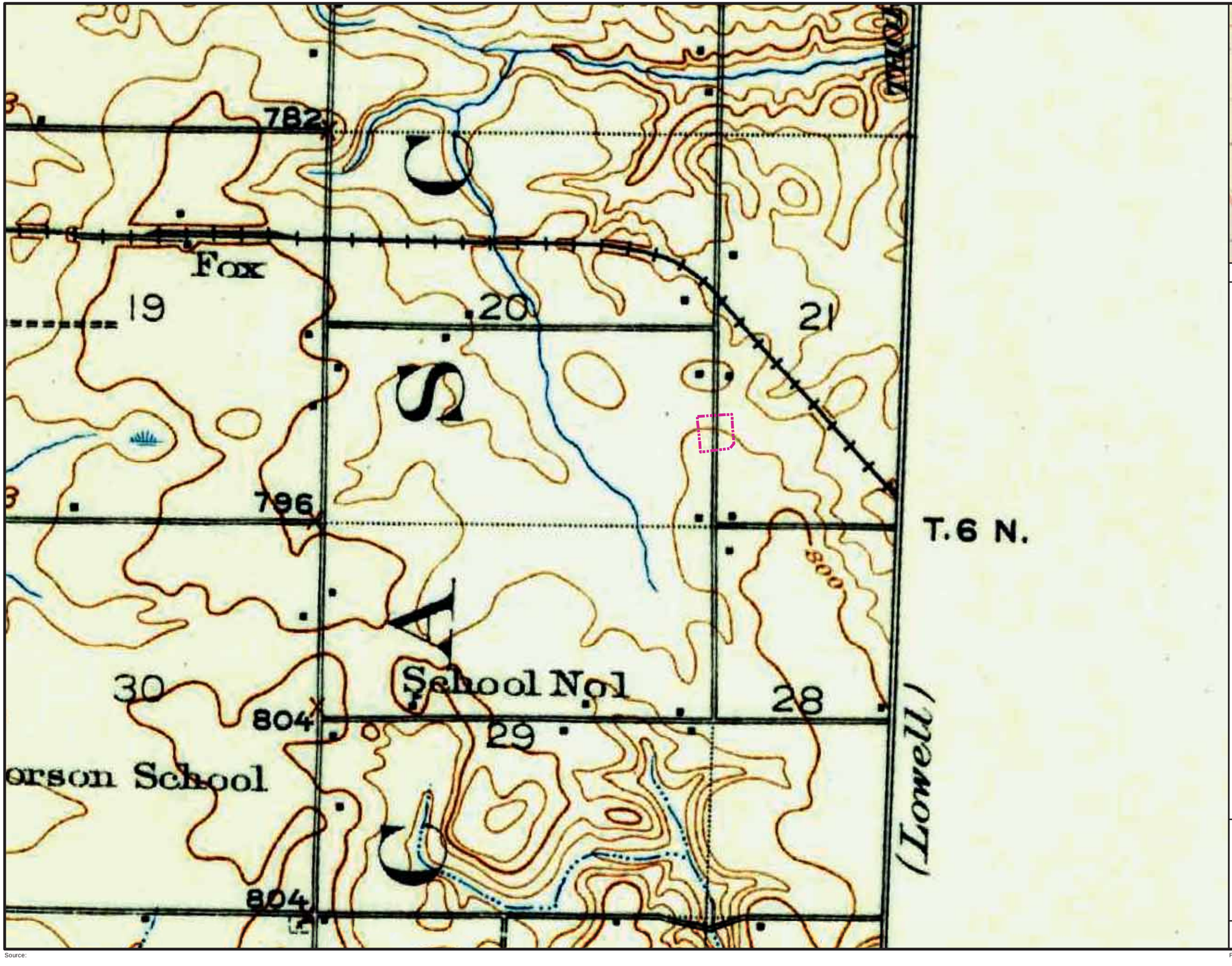
Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	7

Source:

File Name: 07-SHPO.mxd

Edited: 9/13/2024 By: afraley

A. Boden
40
Lowrey
110
W. Pierce
80
J. Madigan
40
G Russ
40
Mathews
45
E. Lennon
80
Wm & Jas. Eardly
240
P. Teeple Jr
80
J W. Eardly
80
D Sheehan
40
J. Sheehan
40
E. H. Baxter
W Hennessy
80
W M Pierce
40
M. Cook
40
C. Shea
40
D. Sheehan
40
D. Pettad
80
J. May
70
D. Pettad
60
E. Lennen
120
J. Kelley
40
T. Mc Knight
80
J. Mc Knight
80
Wm Annis
40
S. R. Cook
J. Reurton
Mrs. J. Annis
L. Tanamburgh
J. F. Cook
C. S. Spaulding
Mary Kelley
40
P. Sheehan
J. Forbes
J. Brougham
40
T. Lc
62
Site
Site Location Map
Legend
Archaeological APE
0
500
1,000
2,000
Feet
GRR ATCT
Relocation Project
1876 Plat of Cascade Township
Lawhon & Associates, Inc.
Date: Sept. 2024
Approved by: AS
L&A No. 24-0286
Figure 8
Source:
File Name: 08-1876 Plat.mxd
Edited: 9/13/2024
By: afraley



Site Location Map

Legend

Archaeological APE

0 500 1,000 2,000 Feet

GRR ATCT
Relocation Project

USGS 15' Series
Topographic Maps

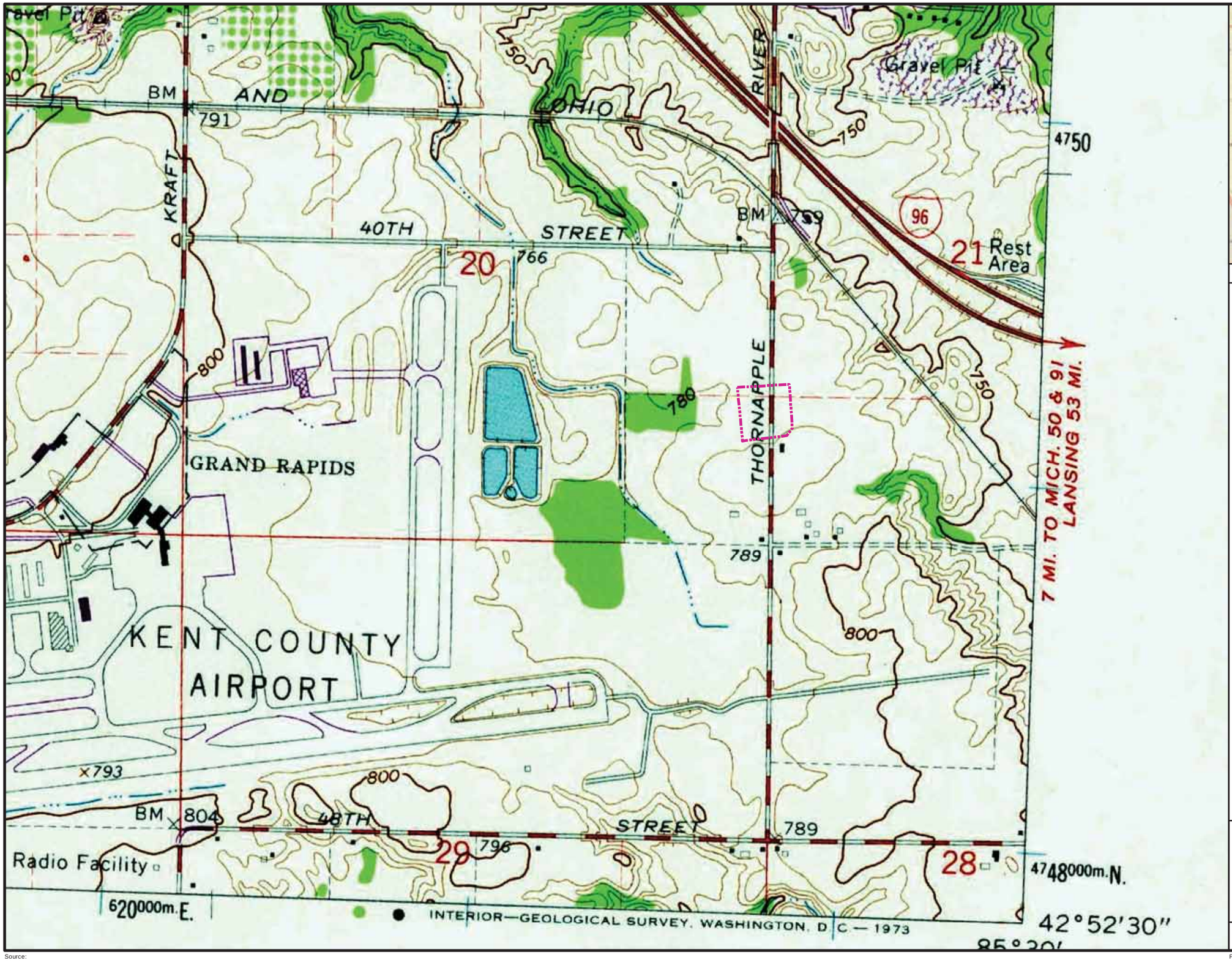
Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	9

Source:

File Name: 09-15 Topo.mxd

Edited: 9/13/2024 By: afraley



Site Location Map

Legend

Archaeological APE

0 500 1,000 Feet

GRR ATCT
Relocation Project

USGS 7.5' Series
Topographic Maps

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	10

Source:

File Name: 10-ModernTopo.mxd Edited: 9/13/2024 By: afraley

Site Location Map

Legend

- Archaeological APE
- # Datum
- ‘' Disturbed Shovel Probe
-) Negative Shovel Test Units
- # Photo Locations

0 25 50 100 150 Feet

GRR ATCT
Relocation Project

Fieldwork Schematic

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	11

Source:

File Name: 11-FW.mxd

Edited: 9/13/2024 By: afraley

Shovel Prove

Series: Blount loam (19B; 2-6% slopes)
Stratum I (Ap): 0-23 cm, 10YR 4/2 silt loam
Stratum II (Btg): 23-28 cm, 10YR 4/2 silt loam, 10YR 5/2 silty clay, 10YR 5/6 silty clay
Provenience: 300 E, 250 S
Excavator: RK

Site Location Map

GRR ATCT
Relocation Project

Typical Test Unit
and Shovel Probe

Lawhon & Associates, Inc.

Date:	Approved by:	L&A No.	Figure
Sept. 2024	AS	24-0286	12

Source:

File Name: 12-TTU.mxd

Edited: 9/13/2024 By: afraley

13.0 PHOTOS

Photo 1. View from the southwestern corner of the Archaeological APE, facing northeast

Photo 2. View from the northwestern corner of the Archaeological APE, facing southeast

Photo 3. View from the northeastern corner of the Archaeological APE, facing southwest

Photo 4. View of artificial field drainage channel in the center of the Archaeological APE, facing southwest

Photo 5. View from the southeastern corner of the Archaeological APE, facing north

Photo 6. View of disturbance along the southern border of the Archaeological APE, facing northwest

Photo 7. View of the current ATCT from the southwestern corner of the Archaeological APE, facing west

APPENDIX A. CULTURAL SETTING

PRECONTACT CONTEXT

The precontact cultural development of the region began with the influx of the first post-glacial populations and continued throughout prehistory until the arrival of Europeans and settlers from east of the Appalachians. Archaeologists developed temporal periods to distinguish cultural and/or technical advances over time, divided into the Paleoindian; Early, Middle, and Late Archaic; Early, Middle, and Late Woodland; Late Prehistoric and Protohistoric. The temporal ranges given here for each period may differ from other presented material. This should not be construed as either a challenge to, or perceived error on the part of earlier material, but reflects the rather fluid nature of defining temporal periods based on current dating techniques, selective regional data comparisons, and differing opinions on when and where to divide prehistory into arbitrary periods. Additionally, it is recognized that cultural expressions associated with certain periods may overlap temporally with the occurrence of material associated with different cultural expressions, particularly during eras considered to be transitional between cultural expressions (for example, the Early Woodland and Middle Woodland periods, where in some areas of Ohio Early Woodland cultural practices continue well into what is temporally associated with the Middle Woodland).

PALEOINDIAN PERIOD

Archaeologists estimate that occupation of the Lower Peninsula of Michigan would have been possible by approximately 11,500 B.C. to 11,000 B.C. By this time, the glacial front that had once covered the peninsula had retreated into the Upper Peninsula/Lake Superior region. The Paleoindians, the first known prehistoric population to occupy Michigan, were highly mobile, small-band hunters moving on a seasonal basis to more fully exploit available natural resources (Dragoo 1976), and carbon dated evidence for their presence in the Lower Great Lakes region suggests occupations as far back as far as 10,500 B.C. (Carr 2012). The Paleoindians were opportunists willing to use a broad spectrum of animal and plant resources, and with a fluctuating post-glacial environment, both in terms of climate and ecological communities, they had to adapt to exploit a variety of environments from tundra to wetlands. Analysis of pollen data and plant macrofossils suggest that tundra conditions in the late Pleistocene Midwest were constricted to the glacier margins, with differing ecological regimes advancing quickly northward as the glaciers retreated. Specifically, spruce-sedge parkland environments dominated the immediate post-glacial landscape for about 2000 years after the last glacial maximum, then rather quickly replaced by pine and then oak forests in the Lower Peninsula. Within this set of environmental conditions, a great diversity of animal species flourished, including several species that would have represented important game animals for human predation, such as mastodon, mammoth, ground-sloths, muskox, elk, caribou, and smaller game species.

One popular hypothesis about Paleoindian subsistence strategies is that they were primarily herd-followers, tracking caribou across the post-glacial landscape. Carr (2012) points out that such hypotheses are largely based on ethnographic analogy and not on hard data reflecting actual Paleoindian subsistence strategies. He points out that there is a general lack of such data for the lower Great Lakes and posits that this reflects Paleoindian site selection strategies that correspond to locations with poor long-term preservation characteristics. Instead, Carr lays out a hypothesis that Paleoindian hunters employed a herd-intercept strategy oriented along lake shores, moving to key locations where caribou herds would be found at certain points of a season, rather than seasonal relocation of a group to be within the summer and winter ranges of a single herd. People practicing the herd-intercept strategy would rely on storage and secondary protein

resources when caribou were scarce. Carr suggests Paleoindian bands were residentially mobile within large territories exceeding 20,000 km² and notes the absence in the archaeological record for definitive evidence of periodic large aggregations of individual bands, which has occurred elsewhere in the Eastern Woodlands (Bull Brook, Massachusetts, for example).

Specific Paleoindian complexes in the lower Great Lakes include Gainey (9500–9000 B.C.), Parkhill (9000–8400 B.C.), Crowfield, and Holcombe (both occurring after 8400 B.C.). Shott and Wright (1999) also note the ephemeral presence of a Mid-Atlantic Paleoindian phase contemporary with Clovis called the Enterline phase, which is known in Michigan only from one site in Saginaw County and is quite possibly a local variant of Gainey instead of representing Enterline. The Gainey complex, taking its name from an important site in southeast Michigan, is represented by large, fluted points with parallel sides, similar to western Folsom points, and accompanied by triangular end scrapers, side scrapers, and gravers (Carr 2012; Shott and Wright 1999). The Parkhill complex was identified from a series of sites in southern Ontario and are identified through the presence of Barnes fluted points. Groups associated with the Parkhill complex are thought to have had a residential preference for the shore margins of Glacial Lake Algonquian and occupied much smaller territories than Gainey people; a large territory between Jackson and Alpena is posited to have been one such territory covering the eastern Lower Peninsula, albeit without much supporting evidence (Shott and Wright 1999). Parkhill toolkits show an increasing diversity of tool forms over preceding Gainey kits. The Crowfield and Holcombe complexes represent the end of the Paleoindian period, with many Holcombe points being either poorly fluted or in some cases, simply being basally thinned in place of fluting. Few examples of the Crowfield complex have been identified in Michigan, being more of an eastern Great Lakes phenomenon. Holcomb complex sites are mainly restricted to southeastern Michigan (Shott and Wright 1999).

Small lithic scatters and isolated finds of diagnostic fluted projectile points characterize the archaeological record of Michigan's Paleoindian period; such points including Clovis, Holcombe, Cumberland, Plainview, and Agate Basin types. Unfluted Hi-Lo points are also a diagnostic point for the period in Michigan (Justice 1987; Carr 2012); although some archaeologists prefer to assign these points to the initial Early Archaic (Shott 1999). Paleoindian groups in Michigan are noted for a heavy reliance on Onondaga, Bayport, and Fossil Hill cherts, with early Gainey phase people also using exotic Upper Mercer chert from east-central Ohio (Carr 2012; Shott and Wright 1999). Notably, Paleoindian groups appear to have focused on single sources of lithic raw material, so that lithic types may be an identifier for a band territory.

ARCHAIC

A period of significant environmental change ensued as the glaciers retreated northward at the end of the Pleistocene. The climate became temperate. Large-game species, such as mastodon, became extinct, and the deciduous forest common today developed, replacing the boreal-coniferous forests. The Archaic period encompasses the notable human adaptations and settlement practices developed in response to the changing environment (Ford 1974). Artifact assemblages from Archaic sites show a wider range of tool types in comparison to the preceding Paleoindian period, some of which have specialized functions for the processing of a wider variety of plant and animal resources (Griffin 1967). Although all Archaic-period human groups exhibited characteristics of classic hunter-gathering lifestyles, environmental differences led to regionally

distinctive artifact assemblages by the end of the period, which might reflect the evolution of culturally distinct human social groups (Dragoo 1976).

Changes in human social organization occurred concurrently with expanding food procurement strategies. In eastern North America, organizational changes generally included restricted group mobility, larger aggregations of individuals, development of ritual behavior, development of inter-regional exchange systems, and the first attempts at plant domestication (Ford 1974). Other results included smaller group territories, sites occupied for longer periods, reuse of sites at more frequent and probably more regular intervals, and the use of a wider variety of plants and animals. Storage facilities and vessels also appeared more frequently in Archaic sites, as well as evidence for early cultivation of some plant species. Archaic cultures developed burial ceremonialism and other ritual behavior and showed signs of becoming formalized in some regions. Ritual activity might be linked to the establishment of social group identities, the maintenance of territorial boundaries, and the regulation of intergroup alliances and trade. However, archaeologists are still trying to adequately test this proposition.

Research has shown the progression of these adaptations through the Archaic period (ca. 8000 B.C. to 1000 B.C.), resulting in the subdivision of time into three distinct temporal periods: Early, Middle, and Late Archaic. Some general traits, such as basal styles of projectile points, are common throughout all three Archaic sub-periods, so some Archaic sites cannot be classified to one of these three periods.

Early and Middle Archaic sites are somewhat rare in Michigan, which was once attributed to an actual general absence of people during that time in the region. However, recent studies suggest that fluctuations in glacial meltwater lake levels in the early Holocene may have resulted in contemporary sites being either flooded or deeply buried under alluvium, as lake levels were considerably lower than at present.

EARLY ARCHAIC

During the Early Archaic period (8000 B.C. to 6000 B.C.), small mobile groups gradually became more geographically restricted as seasonally oriented hunting-and-gathering activities were focused on smaller, well-exploited territories. This reduction in territory size and mobility is a direct link to the expansion of the deciduous forests that produced a more favorable habitat for game species (Chapman 1975). Although hunting was the major subsistence activity, Early Archaic people also used a narrow spectrum of nutritious plant foods (Chapman 1975; Cleland 1966). This expansion of the subsistence base correlates with a change in material culture. Early Archaic hunters switched from lanceolate spear points, ideal for hunting larger animals, to a series of smaller, more diversified notched and stemmed projectile points, scrapers, knives, drills, and ovoid blades. Woodworking and food preparation tools first appeared in the tool assemblage during the Early Archaic period. These tools included axes, adzes, mortars and pestles, awls, gouges, and grinding stones (Chapman 1975; Jennings 1968). Sites were small and scattered, largely discovered through surface collection, and usually located in uplands near secondary stream valleys (Benchley 1975).

Early on, Early Archaic bands in Michigan practiced a lifeway fairly like preceding Paleoindian groups, and sites from this part of the period are classified as the Plano tradition. Indeed, some archaeologists place Plano as a Paleoindian manifestation characterized by a loss of fluting in projectile point technology (Justice 1987). It seems likely that Plano and Dalton types of points

are reflective of gradual change, rather than demarking any sharp divisions between the Paleoindian and Early Archaic periods, and thus may best be discussed as Paleoindian/Early Archaic. The Plano tradition dates to ca. 8000–7500 B.C. and is characterized by Hi-Lo projectile points (Shott 1999).

The succeeding Kirk tradition dates to ca. 7500–6000 B.C. and is notable for the first occurrence of notched and stemmed bifaces, variously attributable to Palmer, Kirk Corner-notched, Kirk-stemmed, St Albans, Kanawha, and LeCroy types (Shott 1999). This change represents an abrupt change in lithic technology from preceding lanceolate forms, with a concurrent increase in use of exotic Ohio lithic materials. This change may be correlated with the movement of new groups into Michigan from Ohio, although such interpretations do not suggest what happened with the Plano people already present. Shott (1999) posits a viewpoint that suggests bands belonging to the Plano and Kirk traditions overlapped in territory and interacted with each other. Indeed, he notes that while there is a relative explosion in biface form diversity, the overall toolkit for Early Archaic peoples shares many characteristics with late Paleoindian and subsequent Archaic groups.

MIDDLE ARCHAIC

During the Middle Archaic period (6000 B.C. to 3000 B.C.), floral communities diversified as the overall climate warmed and stabilized, allowing for a broader selection of food and material for use. However, Middle Archaic people still appear to have emphasized hunting within an increasingly sedentary lifestyle (Cleland 1966). In lower Michigan, there is a debate as to whether the local environment could support a large population of hunter-gatherers. Boreal forests may not have developed sufficient mast-bearing species to support a new regime of large mammals, and stream flows may have been too rapid to support large fish populations. Nonetheless, extensive, productive marshes along the relict margins of Lake Algonquin in southeastern Michigan may have been well-exploited by Middle Archaic bands, and many of Michigan's Middle Archaic sites are found in the that region (Lovis 1999). As well, pollen studies indicate that oak, maple, and elm had begun to establish themselves in southern Michigan by 5000 B.C. It may simply be that Michigan Middle Archaic populations were largely focused on shoreline habitats that are now underwater, thus introducing a significant bias in typical survey results. In addition, Middle Archaic groups are suggested to have practiced a long-distance logistic mobility strategy that would spread evidence of Middle Archaic people thinly over a landscape, moving between shoreline residential camps and upland logistical sites (Lovis et al. 2005); such a strategy, where people are normally occupying sites on a very short-term basis, would also help to explain the low density of Middle Archaic sites.

Middle Archaic material cultural reflects the change in economy as well, adapted to intensive exploitation of forest and riverine environments. Some researchers divide the Middle Archaic in the Great Lakes into two horizons based on projectile point morphology (Stothers et al. 2001). The first horizon is the Weak-Stemmed Point Horizon (6000–3800 B.C.), with points such as Morrow Mountain and Stanly Stemmed; the second horizon is the Side-notched Point Horizon (3800–2000 B.C.), associated with points like the Raddatz, Matanzas, Otter Creek, and Brewerton styles (Lovis 1999). Of note is the overlap of Brewerton points between the Middle and Late Archaic periods. Plant-processing tools included a variety of ground stone implements, grooved axes, metates, and nutting stones. Bone tools such as awls and fishhooks also appear in Middle Archaic assemblages. Atlatl weights and bone tools first appear in the archaeological record elsewhere in the Midwest and Northeast (Broyles 1971; Lewis and Lewis 1961). These types of

groundstone tools are curiously absent from Michigan Middle Archaic sites, but this may be a bias resulting from the overall scarcity of Middle Archaic sites formally excavated in the state (Lovis 1999; Stothers et al. 2001).

Although Middle Archaic sites tend to be rare, one important site in Michigan is the Weber I Site (20SA581) in the Saginaw River Valley (Lovis 1999). This site exhibited stratified Middle Archaic and Late Archaic deposits and provided evidence for Middle Archaic subsistence strategies, specifically focusing on hunting elk and deer while gathering nuts and berries (Smith and Egan 1990).

LATE ARCHAIC

In contrast to the preceding Middle Archaic period, the Late Archaic (3000 B.C. to 500 B.C.) is a highly visible manifestation in Michigan's archaeological record. Group ceremonialism increased in importance, as demonstrated by more elaborate, formalized burial practices and the presence of exotic materials obtained from emerging trade networks. Scheduled harvesting of seasonal, available plant and animal resources climaxed in the Late Archaic (Caldwell 1964). Coinciding with an increase in territorial permanence was the first appearance of regionally distinct human culture groups in Michigan (Cleland 1966). Late Archaic lifeways in the northern parts of the state (the Upper Peninsula and northern Lower Peninsula) persisted well into what would be considered the Early Woodland period in more southerly regions, with pottery only appearing around A.D. 0. Late Archaic people were organized into seasonally mobile bands, likely in the range of 25-30 people. There likely were population aggregations in the winter months with dispersal in the warmer seasons, perhaps down to single-family groups. There is limited evidence for Late Archaic houses available in the archaeological record of Michigan.

In Michigan, the levels of the Great Lakes were much higher than today, but also fluctuated considerably over the course of the period. In the Late Archaic period, the expansion of deciduous forests reached its northernmost limit (Cleland 1966). The vegetation communities present in the state had become modern (Roberston et al. 1999). Late Archaic people responding to the diverse and evolving ecosystems adapted varying ways of exploiting natural resources. Fishing was an important component of faunal exploitation. The Late Archaic period marks the first appearance of cultigens in the archaeological record. Archaeologists recovered chenopodium, sunflower, and gourd seeds dated to approximately 1500 B.C. from the Salts Cave site in Kentucky (Yarnell 1974), while other researchers have dated squash seed as early as 2300 B.C. in Missouri and Kentucky (Yarnell 1963). However, these Eastern Agricultural Complex (EAC) cultigens are not often found in Late Archaic contexts in Michigan (Robertson et al. 1999). Exploitation of local plant and animal resources, including aquatic species, became more efficient and broad-based in the Late Archaic period. The success of this subsistence strategy is shown by the recovery of charred botanical remains of a variety of nuts, including acorn, hazel, hickory, and black walnut. Fruit also was an important food resource, as demonstrated by the diversity of fruit seeds in archaeobotanical assemblages, such as wild grape, blueberry, raspberry, and strawberry (Dye 1977; Yarnell 1974). Late Archaic people exploited these resources as a seasonal round, with either longer, more extensive occupations or higher seasonal site fidelity only occurring in the Terminal Late Archaic. Specifically, spring occupations may have focused on fish runs, followed by summer camps for berry exploitation, fall camps for mast resources, and winter camps with a broad-based hunting focus. A general lack of sedentism may be attributable to the largely unreliable nature of the fluctuating environmental conditions that typify most of this period

(Robertson et al. 1999). It should be noted that caution must be taken with applying general statements about Late Archaic lifeways in Michigan, as the database of Late Archaic site information is heavily skewed towards the well-scrutinized Saginaw Valley region of southeastern Michigan.

Late Archaic people developed a wide array of specialized objects, including steatite and sandstone bowls, stone tubes and beads, polished plummets, net sinkers, whistles and rattles, birdstones, and boatstones, as well as awls, needles, and perforators made of bone (Chapman 1975). Brewerton series points are characteristic of this period (Ritchie 1961; Witthoft 1953; Robertson et al. 1999). In Michigan, broad-bladed stemmed points, such as Susquehanna, Adder Orchard, Perkiomen, and Genesee types, also are associated with the Late Archaic (Robertson et al. 1999). Interestingly, narrow projectile point styles that occur at Late Archaic sites in the eastern Great Lakes (Lamoka, Normanskill) are not associated with Michigan Late Archaic assemblages. By the end of the Late Archaic, projectile point style diversity increased, with the introduction of small, broad-bladed point types. These points are associated with types including Berrien Corner-notched, Oronoko Side-notched, Sodus Expanding Stemmed (Roberston et al. 1999). Turkey-tail points also occur in ceremonial contexts and in buried caches. By the very end of the period, Meadowood points begin to occur in Terminal Late Archaic contexts. Meadowood points do not occur with pottery on Michigan sites, although sites with Meadowood points are contemporary with Early Woodland sites in Ontario and elsewhere, suggesting that Meadowood points are associated with the end of the Late Archaic here. In southern Michigan, the transition to the Early Woodland is typified by Terminal Late Archaic point types showing up in association with Early Woodland deposits (Robertson et al. 1999).

Trade is demonstrated through the appearance of exotic materials in Late Archaic assemblages, and through the dating of certain prehistoric Lake Superior copper mining pits to this period. In addition, foreign cherts such as Wyandotte/Indiana Hornstone and Onondaga appear in Lower Peninsula assemblages, and ritual objects made from marine shell appear for the first time. However, the occurrence of such exotic materials is rare on Late Archaic sites, suggesting that trade was not intensive. Trade was likely a key component of maintaining social ties among related but widely dispersed groups. Trade may also have been one response to the uncertain availability of resources related to subsistence, including food and animal hides for clothing. Notably, exotic trade items often are found in mortuary contexts. There are three distinct burial complexes associated with the Michigan Late Archaic: Old Copper, Glacial Kame, and Red Ochre (previously thought to represent entire cultures, but now more properly classified as distinct subcomponents of larger Late Archaic cultural practices).

Old Copper Complex burials are largely found in the western Great Lakes, primarily Wisconsin, although there are documented occurrences in Ontario and Quebec to the east. The complex is eponymously named for the occurrence of copper artifacts with burials. Old Copper Complex burials are not documented from the Lower Peninsula. Glacial Kame burials are associated with exotic shell beads and gorgets, copper beads, stone pipes, and birdstones, among other items. As the name indicates, Glacial Kame burials have commonly been found interred in kame landforms. Largely a southern Midwest expression, Glacial Kame burials are documented as far north as Cheboygan County. Evidence from Wisconsin documents interactions between people practicing Old Copper and Glacial Kame burial traditions. Finally, the Red Ochre burial complex is associated with the Terminal Archaic Meadowood cultural expression, which elsewhere is associated with the initial stages of the Early Woodland period (there are very few Early Woodland

mounds in Michigan, obscuring the boundary even further between the Terminal Archaic and Early Woodland periods). Red Ochre burials take their name from the use of red ochre to cover the grave. Interments are flexed, accompanied by Turkey-tail blades, small ovate cache blades, copper artifacts, and tubular marine shell beads. As with Glacial Kame, Red Ochre burials have been documented in association with Old Copper culture burials at cemetery sites. It should be noted that not all Late Archaic burials conform to one of the three complexes, which are regional and may be sequentialized cultural expressions (Robertson et al. 1999). Of considerable interest is the observation that the increase in mortuary ceremonialism appears to halt with the commencement of the subsequent Early Woodland period.

WOODLAND PERIOD

W. C. McKern first described the Woodland period as an archaeological manifestation within the McKern Taxonomic System (McKern 1939), initially distinguishing it from the preceding Archaic period by pottery and ceremonial construction of earthworks and mounds. Griffin's work (1952) on the Woodland period defined three sub-periods: Early Woodland (1000 B.C–100 B.C.), Middle Woodland (100 B.C.–A.D. 500), and Late Woodland (A.D. 500–1200). Archaeologists still use the same basic system today, although current research suggests that adaptations and cultural traits assigned to each period are quite variable in both time and location. For example, in some regions of the Midwest, the cultural expressions associated with the Middle Woodland are not present, with Early Woodland practices persisting through time. Some Woodland period sites are identified solely through the presence of pottery or burial mounds; these sites are typically not assigned to one of the three sub-periods. Specific to Michigan, the Woodland period spans 800 B.C. to A.D. 1650 (Chivis 2003). Late Prehistoric cultural manifestations, such as Mississippian cultures, did not occur widely in Michigan; instead, Late Woodland cultural practices persisted to the Contact Period in large portions of the state, and Late Prehistoric groups appear confined to the southwestern Lower Peninsula, contemporary with Late Woodland people elsewhere in the state.

EARLY WOODLANDC

The Early Woodland period in Michigan begins at different times in different regions in Michigan. In the southern Lower Peninsula, it extends from approximately 800 B.C. to A.D. 1, overlapping somewhat with the Middle Woodland period. Research in the Midwest demonstrates a general continuum from the end of the Archaic through the Middle Woodland for the intensification of horticulture and the formalization and elaboration of mortuary practices (Dragoo 1976). However, Woodland people did not uniformly adapt these traits at the same general time, and some practices associated with Woodland people (such as mound building) are largely absent in Michigan. There are few Early Woodland mound sites in Michigan, Croton Carrigan Mounds in Newaygo County being one (Garland and Beld 1999). In general, Early Woodland peoples maintained a largely foraging-focused economy with gradual incorporation of plant cultivation, specifically sunflower and squash. Early Woodland sites are somewhat rare in Michigan, and often occur as part of multicomponent sites, with subsequent Woodland-period occupations.

To the south, archaeologists most closely associate the Early Woodland period with the Adena Culture. The Adena culture dominated much of the northern Eastern Woodlands from upstate New York into the Ohio and Mississippi Valleys, characterized by conical earthen mounds and elaborate burials with ornamental grave goods. The Adena culture may have developed as early as 500 B.C., based on the dating of burial mounds in the central Ohio River Valley region (Seeman 1992:25). Notably, the Adena culture did not expand into Michigan. However, there is one Early

Woodland earthworks in central Michigan, 20IA37, which bear similarities to Adena earthworks to the south (Garland and Beld 1999). 20IA37 represents a unique occurrence of a ceremonial aggregation site associated with the Early Woodland period in the state. Mortuary processing at the site is suggested through the recovery of fragmentary human bones, but no actual burials are known to be present.

In southern Michigan, research indicates a strong continuity between Late Archaic and Early Woodland cultural practices. Horticulture likely became more important in the subsistence strategy of Early Woodland people, but how important this adaptation was to different groups varies across time and space within this period. Some areas do not show much evidence of domesticated plants until near the end of the Early Woodland period, coinciding with the beginning of the Middle Woodland period (Fritz 1990:403). Sunflower cultivation is demonstrated at the Eidson Site, being a continuous tradition with the preceding Late Archaic occupation (Garland and Beld 1999). Seasonal mast crops continued to be an important resource, and Early Woodland groups still depended on wild versions of plants that would become cultivars, such as squash, sumpweed, gourd and goosefoot.

Although there may have been some tendency for limiting residential mobility in the Early Woodland period, settlement patterns generally resemble those of the preceding Late Archaic period, with large summer base camps in the flood plains and upland resource extraction camps occupied in the fall and winter (Garland and Beld 1999; Yerkes 1988:319). Clay (1992:80) suggests that Early Woodland groups were likely practicing a semi-sedentary, hunter-gatherer lifestyle organized into egalitarian groups, rather than having a more hierarchical tribal system. This certainly seems to be the case in Michigan.

Projectile point/knife forms diagnostic of the Early Woodland period include Kramer, Cresap, Meadowood and Adena Stemmed types (Chivis 2003; Justice 1987). As noted previously, Meadowood points are also associated with the Terminal Archaic in Michigan. Early Woodland pottery first appears around 500 B.C. and tends to exhibit coil construction with cordmarked surfaces. Pottery types associated with the Early Woodland period includes Marion Thick (also known as Schultz Thick), Shiawassee Ware (found in the Saginaw Valley), and Mushroom Cordmarked, a late Early Woodland type (Garland and Beld 1999; Chivis 2003). Marion Thick is considered like types in other regions of the Midwest, such as Vinette in Ontario and Fayette and Leimbach Thick in Ohio. The production of Marion Thick appears to have persisted into the Middle Woodland period. Exotic materials are indicative of long-distance trade networks, including copper and high-quality cherts from Ohio and Illinois.

MIDDLE WOODLAND

The Middle Woodland period (ca. 100 B.C. – A.D.400) saw a gradual expansion in the general patterns of the Early Woodland. Elaborate burials and distinct ceremonialism increased, and mound construction became increasingly complex, with huge, precisely arranged geometric earthworks being the hallmark of the Hopewell cultural manifestation that flourished to the south in Ohio, with its influence spreading throughout the Midwest. Like the Adena, the Hopewell manifestation likely does not represent a single monolithic culture, but rather a shared worldview among many different groups of people across the mid-continent. Elaborate mound construction and an increased reliance on fishing are hallmarks of the Middle Woodland in Michigan.

In southwest Michigan, the Norton Tradition is the main regional expression of the Hopewell cultural manifestation, although Havana Hopewell is present in sites along the Michigan-Indiana border. Chivis (2003) notes that current research suggests many of the Middle Woodland vessels recovered archaeologically from western Michigan show influence from Illinois populations, with several probably representing imported or trade items. Pottery types associated with Middle Woodland groups in southwest Michigan include Norton Ware, Havana Ware, Western Basin Ware, Crockery Ware, and Hacklander Ware (Chivis 2003). In southeast Michigan, near Saginaw Bay, the local Hopewell expression is the Saginaw Tradition. Hopewell cultural expressions were not adopted by Woodland groups occupying the area beginning roughly at the Muskegon River and northwards, and additionally do not seem to be present in the southeastern corner of the state south of Saginaw Bay (Kingsley et al. 1999). It appears that while migration of Hopewell people into southwestern Michigan may be the best explanation for the cultural development observed there, the Saginaw Bay tradition may have developed in situ. Middle Woodland period sites have been identified along the northwest coast of the Lower Peninsula, some with Hopewellian materials. However, it is not clear that these sites represent a Hopewell population; instead, they may be a contemporary Middle Woodland population that traded with Hopewell groups to the south but did not adopt their practices.

The Norton Tradition is thought to have evolved from the Havana Hopewell tradition to the southwest and is contemporaneous with the later expressions of Havana Hopewell. The Norton Tradition is divided into the Norton Phase, ca. 10 B.C.–A.D. 200, and the Converse Phase, ca. A.D. 200–400. However, due to a lack of datable material from sites and phase-sensitive artifacts, the Converse Phase is considered problematic at best, as the dual Norton/Converse phases were created to serve as an analogue to Illinois phases and may not be an accurate interpretation of the cultural manifestation of Hopewell in southwest Michigan (Kingsley et al. 1999). The earliest expressions of the Norton Phase appear to be highly correlated to Havana Hopewell groups to the southwest, albeit on a smaller scale. Norton people buried their dead in mounds, with practices like the Havana Hopewell, the parent group. Norton groups appear to have focused their territory on the Muskegon, Grand and St. Joseph River valleys, with several mound groups present. Domestic sites associated with the mounds are rare, however, and the settlement system for Norton Tradition Hopewell is poorly understood. The constriction of Hopewell to these three river valleys in southwest Michigan is somewhat of a puzzle, and may indicate that the Hopewell people, possibly being an immigrant group, settled in areas sparsely occupied by other Woodland people practicing a different cultural system. Supporting this view of long-term sedentism without expansion is the fact that each of the three river systems have major mound group sites composed of numerous mounds, suggesting a long period of settlement adding to the ceremonial mound centers over time.

An important component of understanding the Middle Woodland period in Michigan is the presence of cultural systems unrelated to the Hopewell phenomenon. Some of these societies may simply be groups continuing cultural practices first developed in the Late Archaic and Early Woodland periods. In southeast Michigan, the Western Basin Tradition is recognized as a non-Hopewell Middle Woodland-Late Woodland cultural expression. Several researchers interpret Western Basin material as representing an in situ cultural evolution of Woodland traits culminating in Late Woodland cultural expressions, such as the Younge Phase in northwest Ohio and the Wayne Tradition in southeast Michigan. Another resident, non-Hopewell Middle Woodland population is posited in southwest Michigan, in between the Havana Hopewell and the Norton

Hopewell areas. These people are known from locally derived ceramic forms, some of which are like Point Peninsula cultures to the east. Some Hopewellian material also occurs at sites thought to be Non-Hopewell Middle Woodland, interpreted as the result of contact with Hopewell groups to the north and south (Kingsley et al. 1999). In northern Michigan and the Upper Peninsula, groups are classified as belonging to the Lake Forest Middle Woodland, a cultural expression that is contemporary and interacted with other Middle Woodland cultures, such as people associated with Laurel, Hopewell, Point Peninsula, and North Bay cultural traditions.

The current understanding of settlement and subsistence behaviors of the Hopewell and other Middle Woodland populations is unclear at best, with a variety of opinion to explain the data collected to date. Using information from non-mound excavations (e.g., Prufer 1964), Ford (1979) suggested a basic hunting-and-gathering economy with limited horticulture. Subsistence data from Michigan sites is scarce, unfortunately, complicating the development of a robust theory on Middle Woodland subsistence and settlement, like that developed for Ohio, Indiana, and Illinois Hopewell societies. A settlement pattern has been developed for the Norton Tradition, based upon a system known as Intensive Harvest Collecting associated with Havana Hopewell groups. The Norton settlement pattern consists of villages located on terraces or levees along the main river associated with the group's territory, and always are near large floodplains with backwater and mudflat habitats. Villages were also located near reliable sources of mast. Interestingly, the environmental requirements of this system match well with known Norton site distribution. In particular, the Kalamazoo River Valley lacks such requirements, and correspondingly also lacks any major Hopewell settlements. In contrast, the Saginaw Tradition settlement pattern includes warm-weather base camps with a heavy reliance on fishing for subsistence, likely also serving as population aggregation centers. In the winter months, Saginaw Tradition people dispersed into smaller winter hunting camps. This system is more in line with northern Lake Forest Middle Woodland cultures, and indeed, even with historic-period Ojibwa practices (Kingsley et al. 1999).

Mortuary Traditions

Most information about Middle Woodland burial practices is from Norton Tradition internments. Norton Tradition people interred individuals in tombs covered by burial mounds, like Illinois Hopewell traditions. Norton Tradition mound sites include the Norton Mounds, Schumaker Mound, Converse Mounds, Mallon Mound, Hardy Dam Mound, Grattan Mounds, Parsons Mound, Marantette Mounds, McNeal Mound, Paggeot Mound, Spoonville Mound, Scott Mounds, Palmiteer Mounds, and Summerville Mounds. Norton burials tend to occur within the subfloor tomb of a mound, and consist of secondary bundle burials and more rarely, rearticulation of formerly bundled individuals. Burials are accompanied by exotic Hopewell Interaction Sphere artifacts; in fact, these artifacts rarely occur outside of mortuary contexts on Norton sites. Finely made pottery vessels specifically made for mortuary use, either imported Hopewell Ware from Illinois or the local Sumnerville Ware varient of that type, accompany most burials. These vessels are often accompanied by turtle shell dishes and mussel shell spoons. Individual burials are also found with clusters of artifacts that appear to represent toolkits for use in the afterlife. Exotic, non-local goods include conch shells from the Gulf of Mexico, copper tools from the Lake Superior copper region, native silver (also probably from the upper Great Lakes), and mica. Of special note are copper and silver panpipes, which mainly occur with Norton burials, although one specimen is associated with a Saginaw Tradition internment. Curiously, one type of Hopewellian artifact that is common in mortuary contexts elsewhere in the Midwest but largely absent in Michigan is the copper earspool. Only one burial with earspools is documented in the state. Another way that

Michigan Hopewell burials differ from other regions is the inclusion of slate gorgets, an apparent continuation of a Late Archaic artifact type that does not occur elsewhere in the Hopewell region. It is uncertain if the gorgets were manufactured by Norton Hopewell people or were a trade item originating with groups in the region that were still practicing Late Archaic cultural traditions (Kingsley et al. 1999).

Social Structure

The social structure of Hopewell groups is one that numerous archaeologists across the continent have studied and argued over for years, with little consensus. Information from mortuary contexts holds up tantalizing evidence for the existence of complex societal structures, yet this data can be interpreted in varying ways and widely different hypotheses can be generated from the same data set. One way of approaching the problem of teasing out social structures from limited mortuary data is to examine variation in burial types. If there seems to be differing treatment of individual burials, with some receiving more lavish ministration than others, then some form of equivalent social ranking was probably practiced by that society. Ranking can be teased out in the form of analysis of how different age groups and genders are treated in burials. If there is a difference in burial types, but the difference does not apply to age groups or gender, then a social hierarchy is present in the living population. Such conditions do not appear in Norton Tradition burials. Rather, status seems to be associated with age, and to some degree gender. Older male Norton internments tend to have higher quantities of exotic grave goods, and often display a treatment where a section of the skull is removed. Most of these male burials are also rearticulated in the submound tomb. In contrast, few female or subadult burials show such lavish treatment, although they do exist. These burial characteristics suggest Norton Tradition groups were egalitarian in structure, with status assigned mainly through the male gender, age, and personal achievement, although some form of basic ranking system cannot be ruled out (Kingsley et al. 1999).

Late Woodland Transition

The transition from Middle Woodland to Late Woodland cultural practices in Michigan appears to reflect an in-situ development, rather than a population displacement. One possible population movement in Michigan involves the development of the Wayne Mortuary Complex of eastern Michigan, which does not have any clear precedents in the local archaeological record, but has some defining features (Jack's Reef points, use of exotic Upper Mercer chert) that have been documented in late Hopewell burials in the Grand River valley. A tentative hypothesis is that this Late Woodland mortuary complex evolved out of Hopewell antecedents in western Michigan and moved east with a band of people at the end of the Middle Woodland period (Kingsley et al. 1999).

LATE WOODLAND

The Late Woodland period (ca. A.D. 400–1650) can be defined as a period of complex social change, and there are competing theories about the various cultural sequences associated with the period in the southern Lower Peninsula. The early part of the Late Woodland period is characterized by a subsistence economy almost wholly devoted to wild food sources (ca. A.D. 600-1000), while the latter part of the period sees the increasing importance of horticulture and domesticates (ca. A.D. 1000-1650). However, Muhammad (2010) characterizes certain Late Woodland groups as practicing a "middle ground" subsistence system, with mingled aspects of hunter-gatherer and agriculturalist strategies. She further posits a fluid network of resource

exchange between groups practicing different subsistence strategies as a form of societal risk management for dealing with periodic episodes of regional resource scarcity. During this later part as well, southwestern Michigan saw the influx of Upper Mississippian peoples, an event that surely was important in the cultural development of resident Late Woodland groups. Defensive earthworks appear for the first time, a reflection of the rate of change and the reactions of Michigan Late Woodland people to this change (Holman and Brashler 1999:213).

Late Woodland people appear to have rather abruptly stopped the practice of mound construction and elaborate mortuary traditions of the preceding Hopewell culture. In the early Late Woodland period, there is evidence of regional adaptations, development of formal kinship systems tied to exchange of different kinds of chert, food storage intensification, and seasonal migrations. Ceramic types were similar between disparate groups, suggesting close relationships between them. After about A.D. 1000, group territories were more strictly observed, and chert gift-giving ceased to occur. Rock art and earthwork construction began to appear. The Late Woodland sites in the Upper Peninsula show a general continuity with Middle Woodland cultural behaviors, with small bands of people relying on wild rice, mammal hunting, and fishing for their economic base. Lake Phase sites are found in the western Upper Peninsula, while Mackinac Phase, Bois Blanc Phase, and Juntunen Phase sites are associated with the eastern Upper Peninsula. One notable characteristic that differentiates Upper Peninsula Late Woodland from the preceding period is an increase in site fidelity (Martin 1999).

Late Woodland groups in western Michigan are divided into two traditions. The Allegan Tradition encompasses people living in the St. Joseph River and Kalamazoo River valleys, and the Spring Creek Tradition is associated with groups in the Grand and Muskegon river valleys. Each river valley has its distinct phases within its affiliated tradition. The St. Joseph River phases include the Brems Phase (ca. A.D. 500-1000) and the Moccassin Bluff Phase (A.D. 1000-1200). In the Kalamazoo River Valley, the Allegan Tradition is divided into an Early Allegan Phase (ca. A.D. 600-900) and a Late Allegan Phase (ca. A.D. 900-1650). The Spring Creek Tradition of the Grand River and Muskegon River valleys are divided into the Zemaitis Phase (ca. A.D. 600-1000) and the Spring Creek Phase (ca. A.D. 1000-1200). The Spring Creek Tradition disappears after this, perhaps an indication of cultural disruption from encroaching Upper Mississippian people (Holman and Brashler 1999). Late Woodland diagnostic artifacts for southwest Michigan include small triangular projectile points associated with the introduction of the bow and arrow, and ceramic types such as Skegemog Ware, Mackinac Ware, Bowerman Ware, Allegan Ware, and Spring Creek Ware (Chivis 2003).

Late Woodland Spring Creek Tradition people were seasonally mobile along the Grand River valley, moving from summer gathering regions to interior winter hunting camps, although specific subsistence strategies are poorly understood for southwestern Michigan due to a lack of preserved biological remains at Late Woodland sites. Late Woodland people practiced economic systems that were flexible and adapted to regional environments. Evidence for agriculture is somewhat scarce and seems to have only been a major part of subsistence for the people in the Saginaw Valley. Fishing may have been a primary spring/summer activity, switching to large mammal hunting in the fall and winter. Food storage was an important component of Late Woodland subsistence strategies. Deep pits with organic residue are associated with sites interpreted as winter camps. Some areas, such as the Grand River, lack sites with storage pit features, although this may be more a result of survey bias than archaeological reality. Large ceramic vessels also likely served a storage function. Certain locations may have served as

seasonal aggregation points, such as the Moccasin Bluff site (20BE8) in Berrien County for southwest Michigan groups (Holman and Brashler 1999).

The appearance of high-quality Bayport and Norwood cherts across the southern Lower Peninsula suggests the exchange of this material as part of social relationship maintenance in the early Late Woodland. Distribution of ceramic wares suggests that groups from different traditions could rely on the use of each other's territories in times of scarcity. A maintenance of the social network affiliated with the Middle Woodland is suggested through the appearance of exotic cherts from Illinois and Ohio (specifically Upper Mercer chert), and there is a continuity of projectile point styles from the Middle Woodland into the Late Woodland as well. There is evidence as well of a small population movement into Michigan from the east. A non-locally derived ceramic type called Hacklander Ware appears in southwest Michigan during the late Middle Woodland and early Late Woodland, bearing similarities to wares from New York and southern Ontario. Analysis of this pottery on Michigan sites suggest it does not represent a trade item (Holman and Brashler 1999).

After about A.D. 1000, southern Michigan saw a major change in Late Woodland behaviors. Ceramic types and lithic material choices indicate that inter-regional exchange and contact declined within the state. Exotic cherts become uncommon in assemblages. About this time is when Mississippian people appear to have begun interacting with Late Woodland groups in southwest Michigan, with evidence for interaction with Upper Mississippian people by 1100, and another such incursion in 1400 by makers of Huber Ware (Holman and Brashler 1999). It appears that certain indigenous Late Woodland groups began adopting Mississippian practices (including corn-bean-squash agriculture), while others continued Late Woodland lifestyles.

In the early part of the Late Woodland period, burial practices continued to be characterized by the inclusion of "rich grave goods" with high-status individuals (Halsey 1999:234). In the southern Lower Peninsula, the Wayne Mortuary Complex is predominant, and Halsey places it within a larger group of similar burial traditions extending from the Mid-Atlantic to North Dakota. Burial mound construction like the Middle Woodland period still occurred in the early Late Woodland period, but this burial system was soon abandoned for individual graves in cemeteries, isolated graves, and intrusive burials into pre-existing mounds. Towards the middle of the period, clay elbow pipes began to be included in graves, although most other forms of grave goods were no longer used in mortuary contexts. However, a very late cemetery excavated by pot hunters dating to the 1500s or early 1600s was very well preserved, with numerous organic artifacts that suggests grave goods were still numerous within Late Woodland internments but likely were too perishable to survive in earlier excavated graves. Some Late Woodland burial practices switched to the use of ossuaries.

Earthworks in Michigan are a Late Woodland phenomenon, and usually consist of circles or horseshoe-shaped constructions with adjacent ditches. Zurel estimated that over 100 such earthworks probably existed in Michigan; only a handful remain intact today. The earliest carbon-dated earthwork is from southwest Michigan, the Whorley Earthwork (20BR6), dated to ca. A.D.1080$\pm$100. Other carbon dated earthworks fall in the date range of about A.D. 1275-1550, with a late date of A.D. 1700$\pm$60 for the Graham-Vogt site (20MB78). Many enclosures seem to be associated with wooden palisades. However, the exact nature of these earthworks is unclear. In southeast Michigan, the locations of earthworks all seem to be about a day's walk apart, suggesting a possible affiliation of individual bands to individual earthworks. A defensive nature is

suggested by the palisades and by evidence of occupation zones within the earthworks that have been archaeologically tested (Zurel 1999).

UPPER MISSISSIPPIAN

The Upper Mississippian period is one of the least well-known prehistoric expressions in Michigan, partly due to a scarcity of sites and limited geographical distribution of Upper Mississippian sites. Archaeological evidence places Upper Mississippian people in southwest Michigan beginning ca. A. D. 1050, persisting until ca. 1600. The Upper Mississippian development is thought to be an in-situ development of groups adopting practices developed by Middle Mississippian groups centered on the St. Louis region. Specifically in Michigan, Upper Mississippian traits are overlain on a Late Woodland cultural base (McAllister et al. 1999). Upper Mississippian people in southwest Michigan practiced corn-bean-squash agriculture, aggregating in a few summer villages, and then dispersing in smaller, family-based groups to winter hunting camps. However, some village sites may have been occupied year-round, such as Moccasin Bluff. Evidence for specialized camps in southwest Michigan includes site types focused on the spring sturgeon run and wetland resources.

The Moccasin Bluff Phase of southwest Michigan (ca. A.D. 1050-1300) corresponds to the Fisher and Huber phases located to the south and southwest in Indiana and Illinois. Ceramics diagnostic to this phase include Moccasin Bluff Impressed Exterior Lip (a grit-tempered, cordmarked ware) and shell-tempered wares that appear related to Fisher phase ceramics. Of interest is that Late Woodland vessel forms co-occur with Mississippian vessel forms in Moccasin Bluff Phase assemblages, specifically with grit-tempered ceramics. Following the Moccasin Bluff Phase is the Berrien Phase (ca. A.D. 1400–1600), which was also first described at the Moccasin Bluff site. Ceramics remain a mixture of grit- and shell-tempered wares, including Berrien (shell), Moccasin Bluff Scalloped (grit), and Moccasin Bluff Notched Applique Strip (grit) types (McAllister et al. 1999). The Berrien Phase shows strong relationships to the Huber Phase in northern Indiana. Other characteristics of southwestern Mississippian assemblages include Madison projectile points, predominant use of local cherts (but supplemented with exotics) in lithic assemblages, and occasionally trade items such as catlinite pipes (McAllister et al. 1999).

Evidence for Upper Mississippian house types is lacking in Michigan. However, early historical descriptions of Miami and Potawatomi villages, considered to be good analogues for Mississippian lifeways (if not actually representing the direct descendants of these groups), consisted of clusters of small wigwam-like buildings, constructed from bent saplings and covered with bark. Such buildings may not leave much in the way of posthole patterns at sites.

Elsewhere in Michigan, evidence of Mississippian influence and occupation is much less prevalent. The Saginaw Valley region has sites with Mississippian-style pottery present in small amounts, and a few burials are highly like those documented in Mississippian societies elsewhere. However, the evidence is too scant to conclusively state that people practicing a primarily Mississippian lifestyle occupied this region in any significant numbers. In the Upper Peninsula, the rare sites showing Mississippian influence are mainly related to Oneota cultural expressions found primarily to the south in Wisconsin and are identified through the presence of shell-tempered pottery. Middle Mississippian wares, such as Ramsey, have also been found in the Upper Peninsula. The Menominee River Basin has perhaps the most evidence for occupation by Upper Mississippian people, while the presence of Mississippian artifacts elsewhere is as equally explainable as trade items versus the actual presence of people practicing Mississippian lifeways.

No evidence for Mississippian agriculture has been found at any Upper Peninsula sites; indeed, the environmental conditions of the peninsula may have actively discouraged such practices. Instead, Mississippian people may have been temporary visitors or seasonal occupants exploiting resources at the very northern edge of their territories (McAllister et al. 1999).

HISTORIC CONTEXT

There is scant evidence for the direct presence of Europeans in Michigan prior to the mid-seventeenth century. However, some protohistoric Native American sites do show indirect contact through the presence of European trade items, such as the Cloudman Site on Drummond Island, dating to ca. 1615 and including glass beads, iron, and copper artifacts made using Native methods but mimicking French knife forms. This site is interpreted as likely being an Ottawa occupation, whose residents had trade relations with other Native people to the east that had been directly in contact with early French explorers (Cleland 1999).

EARLY HISTORIC PERIOD, CA. 1630–1800

Early European presence in the Great Lakes is linked to French exploration and missionary activity. The first documented European explorer in the Michigan region is Jean Nicolet in 1634. Seven years later, the Raymbault Mission was established at Sault Ste. Marie by Jesuit missionaries. This mission first served Ojibwa groups moving west to get away from raiding Iroquois bands, with Ottawa people subsequently settling around it. While the French also established the fur trade, it did not become the dominant focus of activity in the region due to the conservatism of the French court, which placed greater emphasis on conversion of Native groups and exploration (Heldman et al. 1999). However, competition with other European nation-states forced a change in emphasis for the French to commerce, beginning about 1700. The French Bourbon court largely viewed its North American activities in terms of wealth extraction rather than colonial expansion and settlement. The lack of any substantial French immigration to the New World (in contrast to British policies) meant that Native alliances were highly important to the success of French activities on the continent.

The French established settlements at the Straits of Mackinac beginning in 1671, first on the north shore near St. Ignace and then at Fort Michilimackinac in 1715 (the latter of which is arguably the most important early historical archaeological site in the Great Lakes). The French traded with local Huron, Petun, and Ottawa people here, and established a Jesuit mission headed by Father Jacques Marquette, who had moved the focus of missionary activity here from Sault Ste. Marie in recognition of the primacy of the Straits as a Native transportation route. The Native tribes had settled here just prior to the French, having been forced out of their former territories to the east and southeast during the Iroquois Wars, ca. 1640–1660 (Cleland 1999; Heldman et al. 1999). Other Native tribes that were present in the state in the seventeenth century include the Mascouten, Potawatomi, Miami, and Menominee. In particular, the Ottawa, Ojibwa, and Potawatomi formed a loose alliance called “The Three Fires” (Rubenstein and Ziewacz 2014). Native American sites of the Early Historic Period consist of villages and burials. Village sites can show reconstruction episodes for the longhouses, which can confuse interpretation. European trade goods are diagnostic, as are traditional Native technologies using European artifacts as raw material (e.g., glass projectile points, brass tinkler cones). An important corollary is that there do not appear to be any types of diagnostic Native artifacts that would allow identification of tribal identity; this situation is largely due to the disruptive effects of colonization and contact that led to rapid changes in material culture and mixing of previously separate tribal bands in single villages

in some cases. One exception to this rule is the Marquette Mission Huron Village site (20MK82 and 20MK99), where artifacts do show an Iroquoian affiliation (Cleland 1999). Also of important note is that a drastic change in technology and raw material use does not indicate an equivalent change in cultural traditions. Ethnohistorical accounts support the continuation of cultural traditions with likely roots far back into the prehistoric period among Michigan tribal groups (Heldman et al. 1999).

In southwest Michigan, Rene-Robert Cavalier, Sieur de la Salle, established Fort Miami at modern St. Joseph in 1679, named after the Miami tribe that was the focus of missionary efforts in that location. In 1686, the French established Fort St. Joseph in the Port Huron area (the second fort by the name; the first was near Fort Miami). These forts protected French interests in the fur trade against the expanding British. In 1701, Antoine de la Mothe, Sieur de Cadillac, built Fort Pontchartrain between Lake Huron and Lake Erie, at a spot he called “le Detroit,” meaning “the strait.” Because of its strategic location, the fort and the surrounding community of Detroit became the most important French settlement in the first half of the eighteenth century (Rubenstein and Ziewacz 2014; Heldman et al. 1999). By the 1750s, numerous small French farms were present in the southeast Lower Peninsula.

The mid-1700s were a period of war between the two major colonizing powers in eastern North America, the French and British. King George’s War broke out in 1744, followed by the French and Indian War of 1754–1763. The British were slowly expanding and forming new alliances with tribes, forcing the French to react with increased fortifications. British blockades during the war years severely hindered the French’s ability to conduct trade. In 1760, all French forces surrendered, and in 1763, the French ceded claim to all their lands to the victorious British in the Treaty of Paris (Rubenstein and Ziewacz 2014). Soon after the surrender, British forces moved into the Great Lakes and took over important forts at the Straits of Mackinac and Detroit, although many French inhabitants of the associated settlements remained. Some stayed and lived alongside the British, while others relocated to new communities to preserve some sense of autonomy and cultural traditions, such as at River Raisin. British settlement outside of the forts is not well documented, but there are several archaeological sites known that represent British-era settlement.

The change from French to British occupation was drastic in terms of cultural approaches to interactions with Native groups. The British lost their chance to capitalize on goodwill with their Native allies by appointing Lord Jeffery Amherst as Governor General of North America. Amherst refused to listen to other British officials who understood Native customs and his actions, including ignoring pledges made during the war and a cessation of gift-giving, led to increasing hostilities, such as Pontiac’s War of 1763. French traders encouraged the division between Native Americans and their former allies. The efforts of the French were successful in helping make up the minds of Great Lakes tribes to revolt against the British (Rubenstein and Ziewacz 2014). This conflict was a major, if temporary, setback to the British, who lost control of all their western forts apart from those at Detroit, Niagara, and Pitt. However, the British soon regained control of the territory (Heldman et al. 1999). The Proclamation of 1763, drafted in response to Pontiac’s Rebellion, stated that all land west of the Allegheny Mountains as permanent Native territory, with land sales only by permission of the British government.

The next major event during the British period in Michigan was the American Revolution. Being on the periphery of British territory in North America, the British military outposts in Michigan did

not result in any direct response to the outbreak of hostilities until 1778 and 1779, when American actions in Illinois prompted the building of new forts and strengthening of some of the older forts. In 1780-1781, the British dismantled Fort Michilimackinac and relocated to a new fort on Mackinac Island to better defend the Straits. Britain directed Native raids against American settlements from Detroit, which served as a major source of war supplies for such raids (Rubenstein and Ziewacz 2014). An interesting bit of Revolutionary War history is the taking of Fort St. Joseph at Niles by a combined force of Spanish, French, and Native soldiers, who briefly raised a Spanish flag over the fort before looting and abandoning it. Niles thus has the distinction of being the only city in Michigan that has had the flags of four nations flying over it (Rubenstein and Ziewacz 2014). The British period in Michigan ended with their signing of the Jay Treaty in 1794, and American forces took over the major British forts at Detroit and Mackinac in 1796. A British fort on Drummond Island was built in 1815 and remained until 1828, when the United States formally acquired the island.

AMERICAN ACQUISITION AND STATEHOOD, 1800–1837

Although American forces occupied forts in Michigan in 1796, American expansion and settlement in Michigan did not occur with any frequency until the nineteenth century, largely after the War of 1812. Landscapes within Michigan retained a frontier character until their resources became important to the economic development of the state and nation, such as the mineral ranges of the Upper Peninsula, which were not developed until later in the nineteenth century. The Michigan Territory was created by Congress in 1805 after the admittance of Ohio to the Union. However, prior to 1812, most of the white residents of the territory were French, with several British traders still operating out of the territory.

The War of 1812 broke out when the Michigan Territory was under control of territorial governor William Hull, who proved to be completely inept in military matters. Despite a brief foray into Canada, Hull's leadership was disorganized, and British forces soon took over the primary forts in the territory, and Hull himself surrendered Detroit. Initial British success was short-lived, and American victory in 1814 marked the last active hostilities in Michigan between white and Native forces, while cementing the Michigan Territory as a part of the United States (Rubenstein and Ziewacz 2014). Native rights to land in Michigan were slowly chipped away in a series of land cessations, beginning with the Treaty of Detroit in 1807 and culminating in the Treaty of La Pointe in 1842 (Rubenstein and Ziewacz 2014). By the 1870s, most of the state's Native population were living on reservations.

By 1833, Michigan's population was over 60,000 people, more than enough to be admitted into the Union as a state. However, Congress refused to consider the matter until a boundary dispute with Ohio was resolved. Both the State of Ohio and the Michigan Territory considered a strip of land at the northwest corner of Ohio as their rightful possession. This area, called the Toledo Strip, was controversial because Ohio had a provision in its constitution that its northern boundary, delineated in the Ordinance of 1787, could be adjusted if it did not include the mouth of the Maumee River. However, when the Michigan Territory was set up in 1805, Congress either was unaware of or ignored this provision and gave this land to the new territory. While militias on both sides were formed and Michigan militiamen made incursions into Ohio, the so-called "Toledo War" mainly consisted of political bluster and was resolved without a shot being fired through a compromise bill in Congress that admitted Michigan as a state if it ceded the Toledo strip. As a consolation prize, the Upper Peninsula was included as part of the new state's territory (a

transaction that subsequent generations of Michiganders now recognize as getting the best part of the deal). Still, various attempts down through the years have been made on Michigan's behalf to regain Toledo, all ending in failure. On January 26, 1837, Michigan was formally admitted to the Union (Rubenstein and Ziewacz 2014).

EXPANSION AND ECONOMIC GROWTH, 1837–1860

The initial settlement after statehood was achieved focused mainly on the southern tier of counties in the state, largely due to proximity to transportation routes, but also because of the presence of good farmland, especially in the southwestern prairie habitats. Settlers moved north at a slower rate, as transportation routes were nearly non-existent and there was a considerable effort required to clear land for agriculture. Too, the climate became harsher the farther north one went, with fewer growing days per year. The early settlers to the southeastern part of the state were largely from New England and New York, while people from Indiana and Ohio moved into the southwestern quarter, giving each area a distinct set of traits related to the settlers' origins. Improving transportation was the priority for the new state legislature, and an elaborate proposal to build two canals running across the state and three railroads, all extending east-west across the southern half of the Lower Peninsula was funded by a public improvement act in 1837. Unfortunately, financial troubles ultimately meant that these projects could never actually be funded through the sale of bonds (Rubenstein and Ziewacz 2014).

A new source of profit for the state was needed. Eyes turned towards the Upper Peninsula, especially the copper country of the Keweenaw Peninsula. The copper wealth of this region was first recognized back in the era of French exploration, when massive chunks of float copper were described on the surface. The expedition of Douglass Houghton and Henry Rowe Schoolcraft in 1837 confirmed for the state the vast potential of this area. However, exploiting this resource was hampered by the fact that the state did not technically possess this part of the Upper Peninsula, which was still recognized by the United States as Ojibwa territory. The Federal Government quickly entered negotiations with Ojibwa representatives, extracting the rights to the tribe's Lake Superior territory in exchange for $800,000 and the right to occupy portions of the area for a temporary period. With the signing of the Treaty of La Pointe in 1842, the Upper Peninsula mineral rush began. After problems with issuing mining permits were ironed out between the state and the Federal governments, people began flooding into the western Upper Peninsula. Numerous mining companies financed by Eastern businessmen, especially from Boston, set up mines and attendant communities across the landscape. Soon after the establishment of copper mining, large iron ore deposits were discovered along the southern Lake Superior shore in the central Upper Peninsula near present-day Negaunee. As with the Keewenaw region, several iron mining companies quickly developed to exploit this valuable resource, with new communities springing up around the mine locations. For a brief period around 1880, Michigan led the nation in both copper and iron production. Many of the towns and villages of the western and central Upper Peninsula today are directly related to the mining boom of the last half of the nineteenth century (Rubenstein and Ziewacz 2014).

In 1847, Lansing became the state capital, which previously was in Detroit. A new state constitution was approved in 1850, which raised the question of suffrage for non-white men. Ultimately, the constitution approved extending the vote to immigrants who pledged to attain full citizenship and Native Americans who renounced tribal membership. Suffrage for Black people was placed on a separate ballot and soundly defeated. This event was typical for early civil rights

in the state, which had early on addressed the issue during the territorial government days by passing a law that, while protecting free blacks from Southern slave catchers, denied them any semblance of civil rights or equality. Still, the abolitionist movement grew in Michigan, bolstered by immigrants from states with large numbers of abolitionists. The Underground Railroad had several routes leading across the state and slowly, anti-slavery sentiment grew in strength, until antebellum newspapers were bold enough to print statistics on the number of escaped enslaved people that made it to freedom in Canada through Michigan. As part of this movement, the Republican party saw a surge in electoral success in the 1850s, turning the state into one of the first strongholds for the party in the nation (Rubenstein and Ziewacz 2014).

THE CIVIL WAR YEARS AND POSTBELLUM DEVELOPMENTS, 1860–1900

Michigan was a vocal supporter of the Union cause in the months leading up to the Civil War and put deeds to words by sending an infantry company for the Union Army to Washington, D.C., just over a month after Confederate forces fired on Fort Sumter. The Michigan legislature recognized the key issue of the conflict in an 1862 resolution calling for the complete abolishment of slavery. As the war ground on, however, northern Democrats saw a chance to push back and rallied against abolitionism. While seeing some short-term gains, a party platform explicitly supporting white supremacy was too much for many of the so-called “War Democrats” who switched affiliation to the Republicans, and the Michigan Democratic Party was essentially neutered. Republicans swept the 1864 election, buoyed by the success of Sherman’s Atlanta campaign. Outside of the state government’s actions, Michigan’s support for the Union cause is seen in the number of men it sent to the war. Nearly a quarter of the male population of the state served in the war, including half of all military-aged men. Over 90,000 men in total went to war, including 1,600 free Black men who served in units like the First Michigan Colored Infantry. One of the most famous Michigan citizens tied to the Civil War is George Armstrong Custer, who rose to the rank of Major General and was known as one of the most talented cavalry officers on either side of the conflict. Michigan’s economy boomed during the war years, as its copper and iron were vital to the war effort. Too, the state’s farmers rapidly adopted mechanization into their labor practices, due to a labor shortage of farmhands who had gone off to war. This development was supported by increasing prosperity for farmers, who were making good money off providing food supplies for the war effort. This development was key in the change from primarily subsistence farming to large-scale commercial farming in the state. Although hampered during the war years because of labor shortages, the Michigan timber industry became one of the state’s predominant industries, with a yearly average of 33,000 acres of timberland cleared during this period. This period was also the golden age of rail in the state, with nearly 7,000 miles of track crisscrossing the state by 1900 (Rubenstein and Ziewacz 2014).

The post-war years showed that Michigan, while strongly anti-slavery during the war, was hesitant to grant full civil rights to Black people afterwards. An act to grant suffrage to Black men barely passed in 1870, with fear among segments of the white populace that passage would result in a mass migration to the state of former slaves. The same year, Michigan’s first women’s suffrage societies formed, although their goals would not be reached until the twentieth century. Politically, the Republican party dominated control of both the governor’s seat and the State House during this period, although the Democrats made steady advances in eroding their control.

Ironically, while white Michiganders feared an influx of Black immigrants from the South, it was experiencing massive population growth during this period of other immigrants, primarily from

Europe. Over half of the 700,000 people who moved to the state between 1860 and 1900 were foreign nationals. Indeed, foreign immigration to the state was actively encouraged by the state legislature as early as 1845. Special focus of these efforts was on the Germanic region of Europe, whose residents were seen as ideal immigrants due to their perceived conservatism, education, work ethic, and religious values. Many towns in Michigan still boast a strong Germanic culture, such as Frankenmuth and Gaylord. Canadians, especially French *Canadiens*, were another significant source of newcomers. An influx of Dutch settlers to western Michigan influenced cultural development in that region, including the development of a town called Holland, an annual tulip festival, and even a few traditional Dutch windmills. In the Upper Peninsula, the mining companies actively recruited skilled Cornish miners from the United Kingdom. Large numbers of Irish also came to the mining districts, followed at the end of the nineteenth century by Italians, Swedes, Eastern Europeans, and Finns. While many of these immigrants moved further west to follow mining booms, the Finns stayed put and Finnish heritage is a key component of Upper Peninsula culture (Rubenstein and Ziewacz 2014).

INDUSTRIAL BOOM YEARS AND THE DEPRESSION, 1900–1940

Michigan's industrial base developed greatly in the first two decades of the twentieth century. The copper and iron mining regions were still experiencing success, even with the contraction of active copper mines to the Portage Lake region and major competition with western mines. It was the automobile industry, however, that would define Michigan industry in the twentieth century. By 1900, Ransom Olds had already established Michigan's first automobile manufacturing company, and thanks in part to a mass-market advertising campaign, became rather successful. Olds' success inspired many others to enter the automobile industry. The most famous name in the industry is that of Henry Ford, who founded the Ford Motor Company in 1903. Ford is credited with the introduction of many innovations to the industry, including the assembly line and providing a living wage for his workers, based on the idea that the people who made his products should also be able to afford them. Other Michigan-based automobile companies that sprang up at the turn of the century include General Motors, created in 1908 out of an amalgamation of 30 different car companies purchased by William Durant.

The Great Depression had a tremendous effect on Michigan. The automobile industry was hard-hit, as cars were still viewed as a luxury item. The mining districts were devastated, and the copper mines never recovered. State efforts to provide relief were hampered by a Red Scare that occurred in the 1920s, lending a stigma to state welfare programs. Numerous strikes occurred during this period of labor disruption and unrest. Towards the end of the depression years, however, federal programs such as the Civilian Conservation Corps and Works Progress Administration had hired thousands of out-of-work Michigan residents, resulting in what has been described as 20 years' worth of infrastructure and societal improvements in the span of three years (Rubenstein and Ziewacz 2014).

WORLD WAR II AND THE POST WAR YEARS,1941–1967

Michigan was a major player in materiel supply during World War II. Its industries were well-positioned to convert to production of vehicles, ammunition, and other supplies for the war, while its mines provided valuable copper and iron. Indeed, World War II is likely responsible for the survival of the copper industry in Michigan past the mid-century mark. Ten percent of all federal war contracts went to Michigan companies, second only to New York. After the war, numerous developments, such as middle-class families with substantial savings to spend and the

development of the interstate highway system, helped grow the automobile industry even more. The copper industry essentially collapsed completely after the war, with only two major mining companies barely managing to struggle along. Many of the rural counties in Michigan, especially in the Upper Peninsula, saw drastic population declines as families moved elsewhere to take advantage of better economic opportunities.

The development of a car-centric culture is a key factor in suburban growth, with a more negative contribution coming from systematic racism, as white families fled cities like Detroit with rising Black populations. Race relations were always a simmering issue in Michigan, with a surge in the Ku Klux Klan in the 1920s and a major race riot in Detroit in 1943. Because of its large Black population, Detroit was a hotbed of civil rights activity in the postwar years. In 1963, the city was the location of a national civil rights conclave attended by key figures in the movement, including Reverend Martin Luther King, Jr. Despite efforts to improve social and economic conditions, unemployment reached 11 percent by 1967, and civil discontent reached the boiling point in July of that year, with the infamous 1967 Detroit Riot. Sparked by a police raid on a night club during a severe heat wave, riots spread uncontrollable throughout the city, with entire city blocks destroyed by fire, the deaths of 44 people, and over $50 million in property damage. The city is still trying to recover from the effects of this event to this day (Rubenstein and Ziewacz 2014).

THE MODERN ERA

Beginning in the 1970s, Michigan experienced a series of declines in its industrial base. The automobile industry in the state has been affected through enticements by southern states to relocate factories with the promise of tax abatements and an anti-union governmental stance, while increased automation in the auto plants reduced the need for large workforces. The oil embargo of the early 1970s and governmental efforts to mandate fuel efficiency and emissions reductions also challenged the industry. By the 1980s, the state had one of the highest unemployment rates in the nation. The state economy has begun to diversify in recognition that depending largely on one dominant economic sector was not sustainable. New sources of business development appeared in the form of wineries and tourism. A series of political reforms of varying strategies helped pull the state out of severe economic woes by the 1990s, although it still lags much of the rest of the nation in key areas (Rubenstein and Ziewacz 2014).

KENT COUNTY HISTORY

Prior to the organization of Kent County, the Grand River Valley was dominated by Native Americans, specifically the Ottawa tribe. The Ottawa villages situated along Grand River, which flows east to west through the center of the county and wraps around the northern boundaries of Grand Rapids, were noted in the mid-eighteenth century as noble and rich in natural wealth. As part of the Grand River Valley, however, it was under the control of the French government and played a significant role in French fur trade. After gaining permission from the local Ottawa tribes, Madame La Framboise, an employee of the American Fur Trading Company, would establish a trading post in modern day Lowell Township prior to 1778, becoming the first pioneer of Kent County. Few early pioneers arrived through the turn of the century, until a flux of settlers entered Kent County during the 1820s, including the Campu, Godfrey, Marsac, Lincoln, and Robinson families. Kent County was officially laid out on March 2, 1831, though remained unorganized until March 24, 1836 (Fisher 1918; Leeson 1881).

Early settlers relied on salt mining and manufacturing to stimulate the local economy, though these pursuits were not successful and short lived. Accessibility to the many local water sources, such as the Grand River, was the catalyst behind early economic development. Use of these sources for waterpower and land cultivation drove the agricultural and milling industries, primarily timber related mills due to the sheer volume of lumber throughout the county. Both industries were augmented by various farmsteads, sawmills, cider mills, and gristmills. As the longest river in Michigan, the Grand River provided transportation for travelers, and more importantly loggers, who were sending their harvest downstream to Ionia, Lansing, and Jackson. Residents also used the local roadways and pikes throughout Kent County for travel, until the construction of the Michigan Central, Grand Trunk, Grand Rapids & Indiana, and Pere Marquette Railroads, among others, during the mid- to late-twentieth century (Leeson 1881; Fisher 1918; localwiki 2024; Walling 1873).

The City of Grand Rapids began as a small trading post known as Campau Place, founded in 1827 after the arrival of Louis Campau, a French trader. The first settler, however, was a Baptist minister named Isaac McCoy, arriving in 1825. McCoy was the catalyst behind the development of Grand Rapids, purchasing what is now the downtown business district from the federal government. It was incorporated as a village in 1838 and was eventually appointed as the county seat. Furniture manufacturing became a prominent local industry, appearing in Grand Rapids in the mid- to late nineteenth century, around the same time as the construction of their local railroads. A display of Grand Rapids furniture at the Philadelphia Centennial in 1876 garnered attention from all over the country, aptly naming Grand Rapids as the furniture capital of America. Grand Rapids would become the second largest city in Michigan and function as the principal trading center of west Michigan (Leeson 1881; Fisher 1918; grandrapids.gov 2024; Project.geo.msu.edu 1998).

Outside of Grand Rapids, which makes up nearly half of the county, Kent is somewhat rural with rolling agricultural fields and forests, including a few other villages and cities. It is still a manufacturing mecca in west Michigan, as the Grand Rapids metropolitan area is producing automotive parts, plastics, footwear, and cleaning equipment, as well as office and theatre furniture. The county has also attracted various corporations such as Spectrum Health, Meijer, Inc., Amway Corporation, and Steelcase Inc. Grand Rapids also offers a handful of universities, such as Calvin University founded in 1876 and Grand Valley State University. Transportation has also advanced with the construction of two expressways, addition of Amtrak rail services, and the Gerald R. Ford International Airport. Today, Kent County has a population of 657,974 residents. Seventy percent of the population works in the private sector, with education/healthcare, manufacturing, and retail trade, being the most popular areas of employment (U.S. Census 2024; grandrapidsmi.gov 2024).

CASCADE TOWNSHIP HISTORY

The Kent County commissioner organized Cascade township out of Ada township in 1848. Historically, there were Native Americans within the township, but no central village is recorded. Lewis Cook is considered the first European American settler in 1836. Other notable early settlers included members of the Linen, Farrell, Annis, Matthews, and Eardley families; they primarily migrated from New York. Agriculture was part of the early economy of the nineteenth and twentieth century. Milling was never influential to the economy, however. Apart from agriculture, sand and gravel operation was introduced in the late nineteenth century. Transportation relied on county

roads until the Detroit and Milwaukee railroad arrived in the late nineteenth century (Fisher 1918; Lesson 1881).

Cascade and Whitneyville were the only villages within Cascade township. Jefferson Morrison and Alexander Mckinstry laid out Cascade in 1836. The village supported an array of merchants, consisting of a hotel, general store, post office, flouring and grist mill, physician, and drug store. By the late nineteenth century, the villages started to diminish due to economic opportunities in other villages. Whitneyville was established in 1847. A post office was organized soon after its organization, with Clement White acting as a postmaster until it was discontinued in 1868. The village never managed to develop beyond a general store and a hotel (Fisher 1918; Lesson 1881). Cascade Township has lost its original agricultural character and developed into tracts of suburban residences associated with the twentieth century expansion of Grand Rapids. The current population of Cascade Township is 19,667, with the majority working in the private sector. Healthcare, educational services, and manufacturing provide much of the employment for the people in Cascade Township (United States Census Bureau 2022).

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Appendix G. Archaeological Sensitivity Map

Site
Cascade Twp
28th St SE
36th St SE
48th St SE
Gerald R Ford Intl Airport
Site Location Map
Legend
Archaeological APE
Archaeological Sites
Low Archaeological Sensitivity
N
Sensitivity determined through analysis of soil types, wetland extent, literature review results, landforms, and previous disturbances.
0 500 1,000 2,000
Feet
GRR ATCT
Relocation Project
Archaeological
Sensitivity Map
Lawhon & Associates, Inc.
Date: Sept. 2024
Approved by: AS
L&A No. 24-0286
Figure 0
Source:
File Name: Archy Sensitivity.mxd
Edited: 9/13/2024
By: afraley

Appendix H. Consultation

April 29, 2024

Re: Early Coordination Review of Air Traffic Control Tower Relocation
Gerald R. Ford International Airport, Grand Rapids, Michigan

Dear :

The Federal Aviation Administration (FAA) is exploring the potential impacts of relocating the existing Air Traffic Control Tower (ATCT) to a new location at the Gerald R. Ford International Airport (Airport or GRR).

To proceed with the proposed action, an Environmental Assessment (EA) is necessary to define and analyze potential impacts of the proposed action and evaluate any reasonable alternatives. This EA will also be developed to further determine whether any potential impacts are significant enough to necessitate an Environmental Impact Statement (EIS). During the EA project, investigations will be conducted to identify potential social, economic, and environmental (SEE) impacts related to the improvements being proposed. Any potential SEE impacts will be documented and considered as required by the National Environmental Policy Act (NEPA).

The FAA is the lead federal agency and as such, the EA will be prepared in accordance with NEPA, FAA Order 1050.1F, *Environmental Impacts: Policies and Procedures,* and FAA Order 5050.4B. *National Environmental Policy Act (NEPA) Implementing Instructions for Airport Actions*.

It should be noted that the FAA does not necessarily endorse the proposed project, nor have they agreed to a Preferred Alternative. The FAA will evaluate the Purpose and Need, any prudent and feasible alternatives including the No-Build Alternative, and to identify associated impacts in order to select a Preferred Alternative. A summary of the proposed action includes:

- Construction of a new ATCT
- Potential removal of the existing ATCT

As part of our early agency coordination, we are attempting to identify key issues that will need to be addressed during the NEPA process. To accomplish this, your organization's comments are being requested for the above referenced project as it relates to the following:

- Your specific areas of concern / regulatory jurisdiction
- Specific benefits of the project for your organization or to the public
- Any available technical information / data for the project site
- Potential mitigation / permitting requirements for project implementation

For your convenience, several maps and figures are enclosed that illustrate the Airport's location and approximate project area limits. To sufficiently address key project issues and maintain the project schedule, your comments are requested by **May 31, 2024.**

Please send your written or email comments to:

MEAD & HUNT, Inc.
William Ballard, AICP
2605 Port Lansing Road
Lansing, MI 48906
517-321-8334 | william.ballard@meadhunt.com

Sincerely,

William Ballard, AICP
Project Manager
Mead & Hunt, Inc.

On behalf of the Federal Aviation Administration

Enclosures

Cc: Michelle Baker, Airport Environmental Manager
Alec Martino, FAA

Airport Location Map

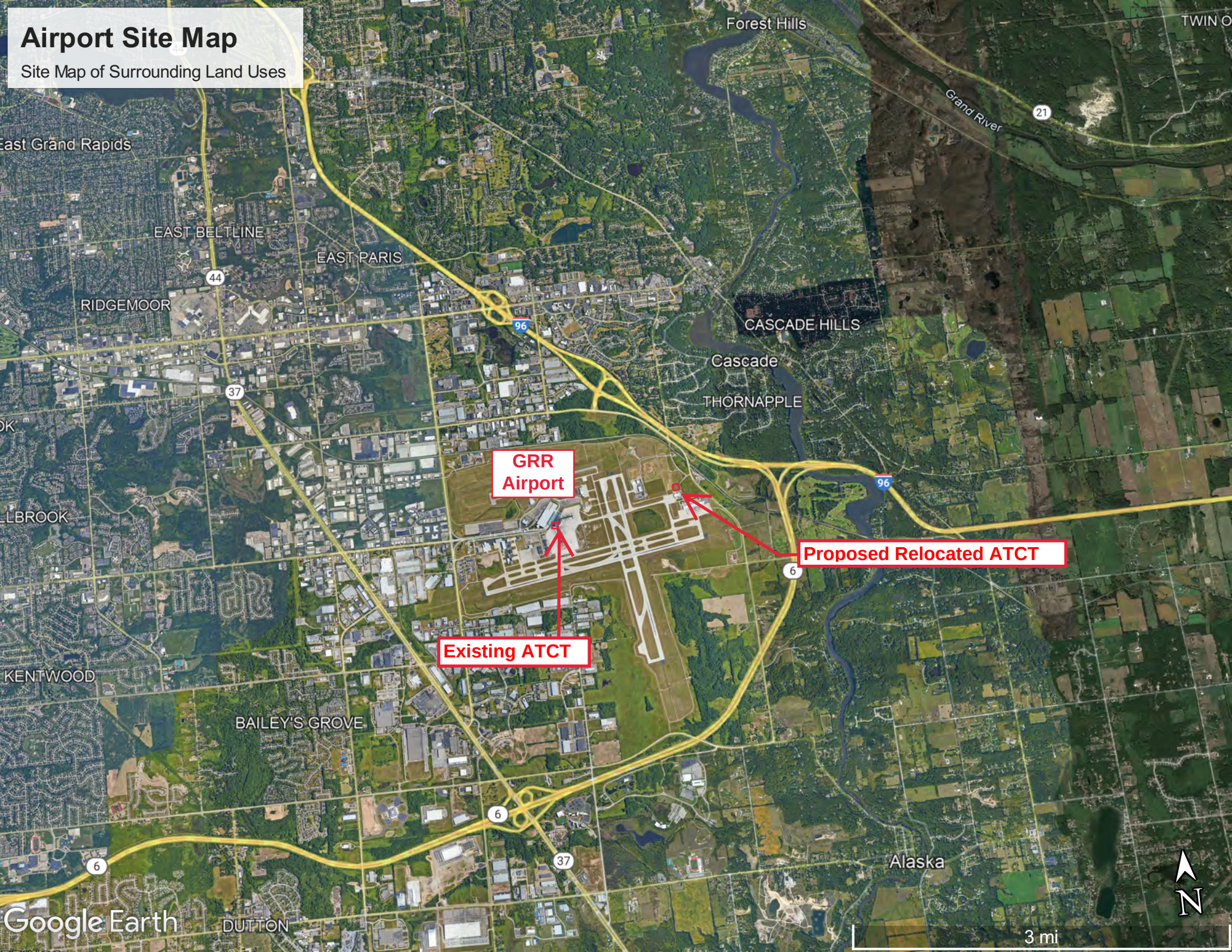
Gerald R. Ford International Airport
Grand Rapids, MI

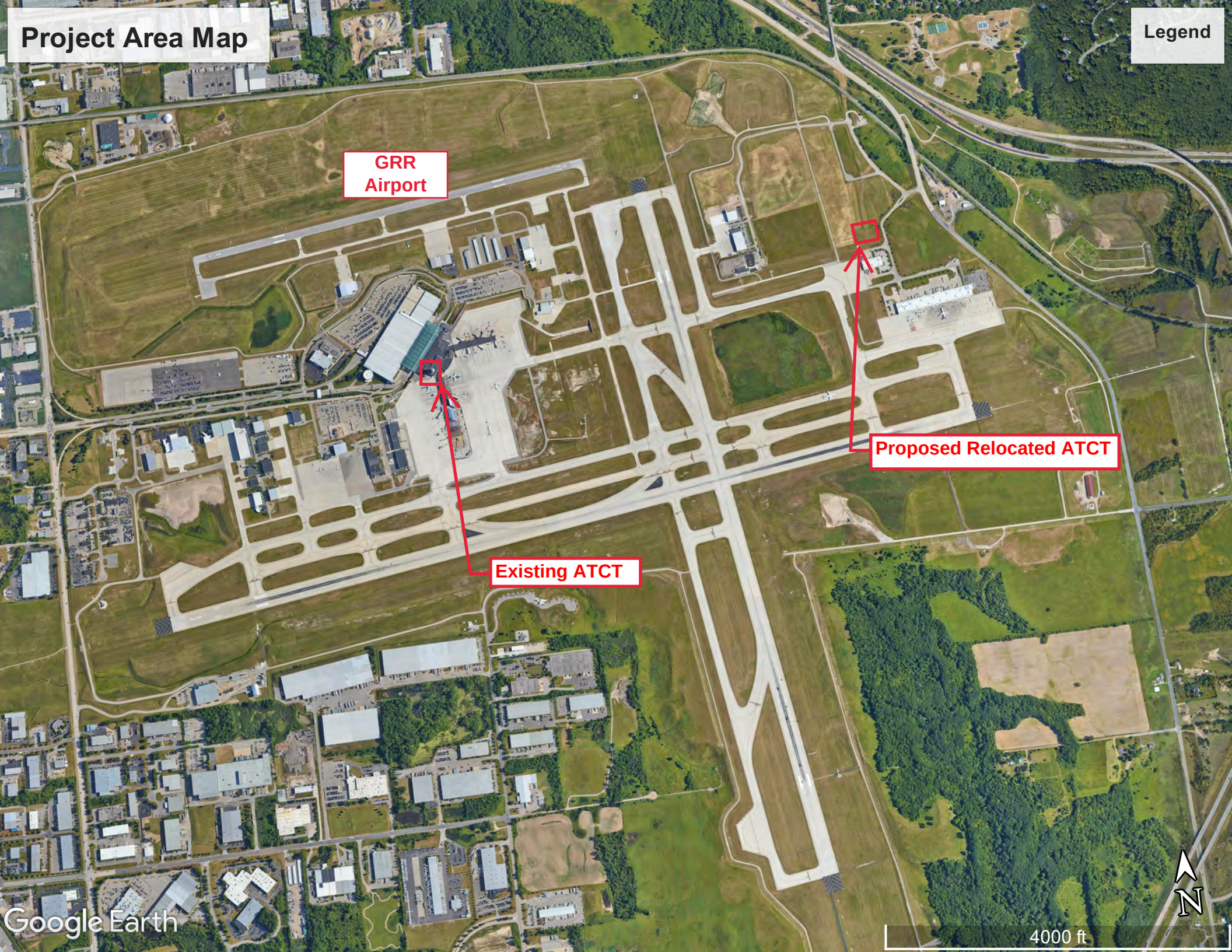
1:2,311,162

0 12.5 25 50 mi

0 20 40 80 km

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS


Airport Site Map
Site Map of Surrounding Land Uses
Forest Hills
East Grand Rapids
EAST BELTLINE
EAST PARIS
RIDGEMOOR
CASCADE HILLS
Cascade
THORNAPPLE
GRR Airport
Proposed Relocated ATCT
Existing ATCT
KENTWOOD
BAILEY'S GROVE
Alaska
DUTTON
Grand River
Google Earth
3 mi
N


Project Area Map
Legend
GRR Airport
Proposed Relocated ATCT
Existing ATCT
Google Earth
N
4000 ft

April 24, 2024

«Contact_Name»
«Title»
«Organization»
«Address»
«City_State_Zip»

Re: Early Coordination Review of Air Traffic Control Tower Relocation
Gerald R. Ford International Airport, Grand Rapids, Michigan

Dear Chairperson:

On behalf of the Federal Aviation Administration (FAA), this letter serves to inform you of a project planned for the Gerald R. Ford International Airport (Airport), located in Grand Rapids, Michigan.

The FAA is exploring the potential impacts of relocating the Air Traffic Control Tower (ATCT) at the Airport.

A summary of the proposed action includes:

- Construction of a new ATCT
- Potential removal of the existing ATCT

For your convenience, several maps and figures are enclosed that illustrate the Airport's location and approximate project area limits.

The FAA would be pleased to receive your comments regarding this project, information you wish to share pertaining to archaeological or historical resources located in the project area, or notification that you would like to become an interested party under Section 106 of the National Historic Preservation Act. In order to sufficiently address key project issues and maintain the project schedule, your comments are requested by **May 31, 2024**.

Please send your written or email comments to:

Mr. Alec Martino
Federal Aviation Administration
2300 East Devon Ave.
Des Plaines, IL 60018
847-294-8037 / alec.martino@faa.gov

Sincerely,

Alec Martino
Environmental Engineer

Enclosures

cc:

Michelle Baker, Airport Environmental Manager
William Ballard, Mead & Hunt

Airport Location Map

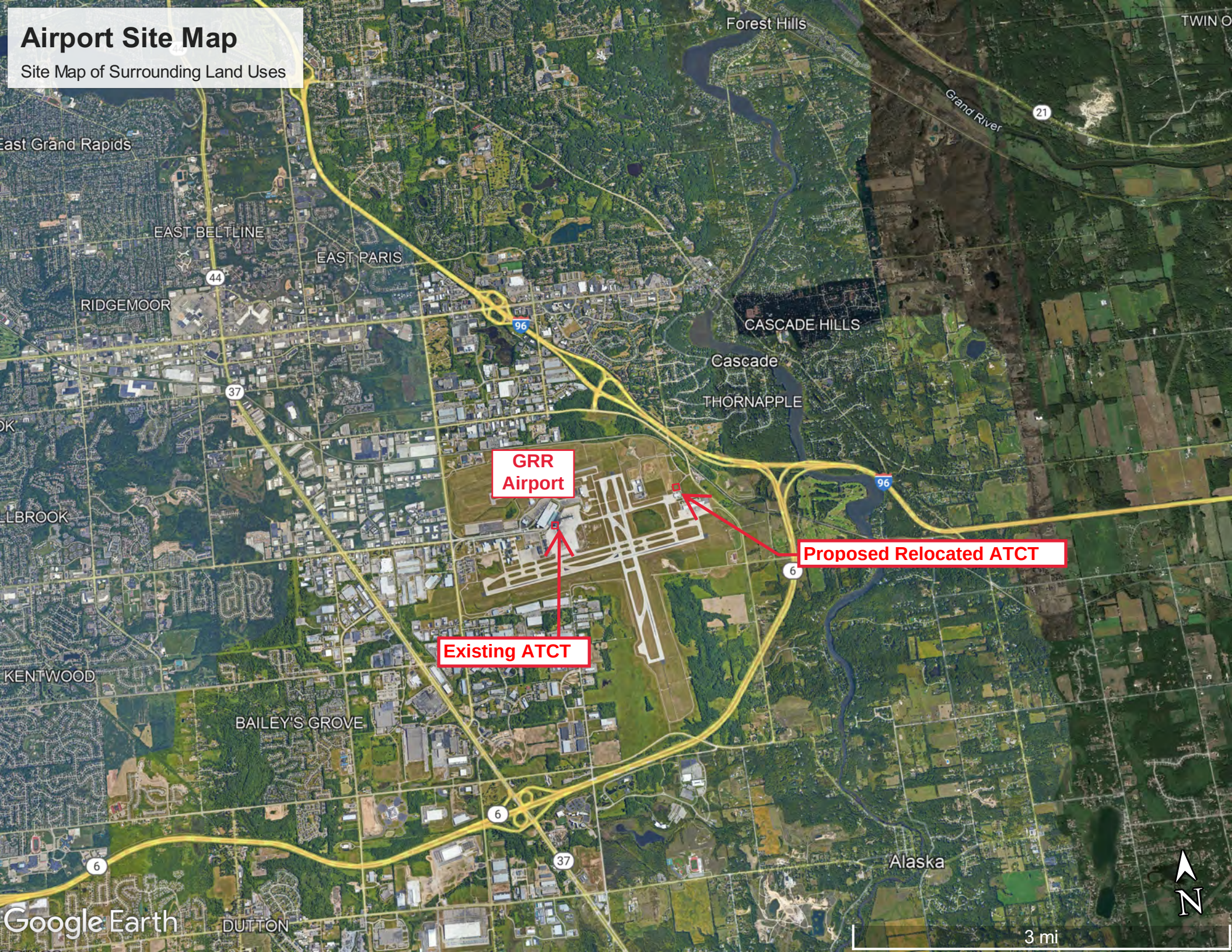
Gerald R. Ford International Airport
Grand Rapids, MI

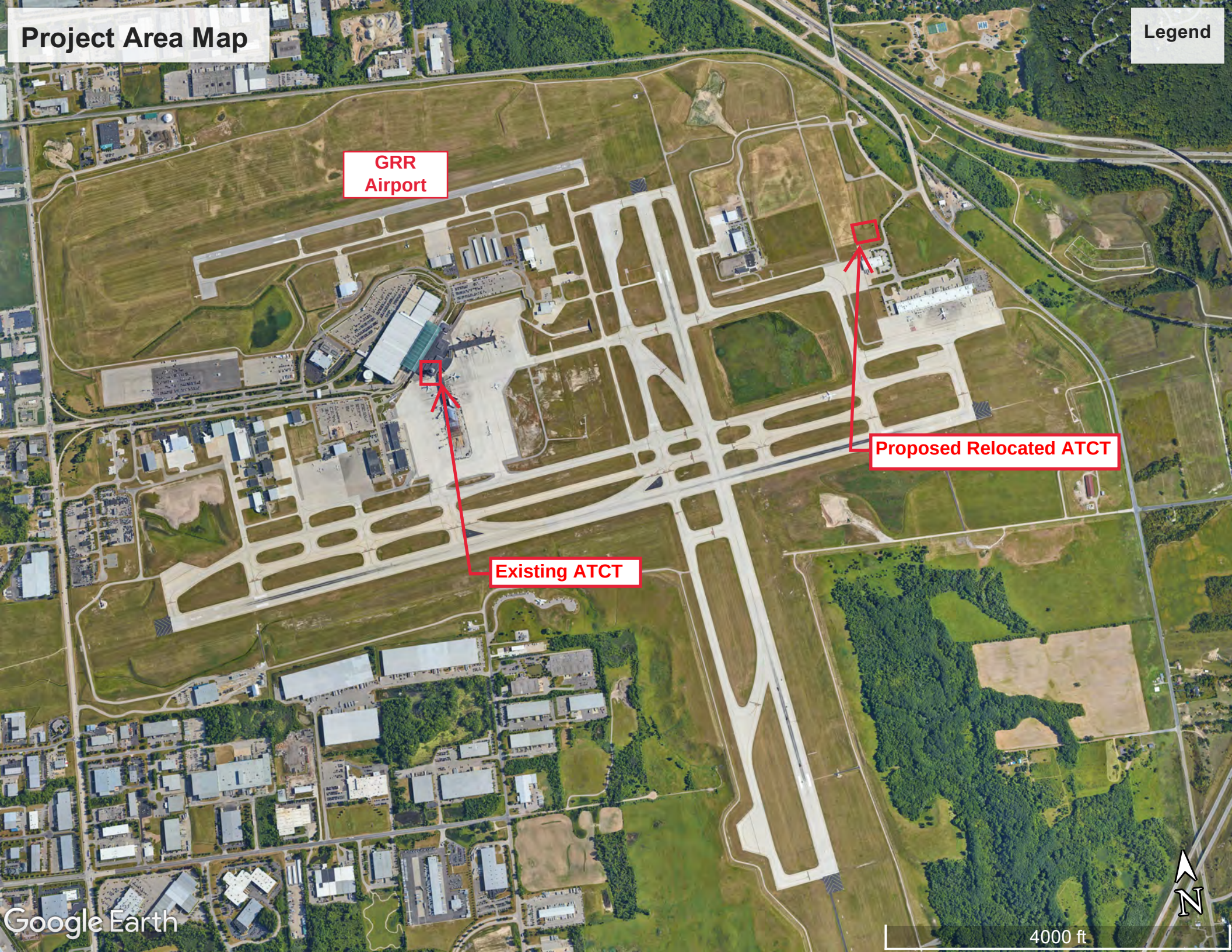
1:2,311,162

0 12.5 25 50 mi

0 20 40 80 km

Esri, TomTom, Garmin, FAO, NOAA, USGS, EPA, NPS, USFWS


Airport Site Map
Site Map of Surrounding Land Uses
Forest Hills
East Grand Rapids
EAST BELTLINE
EAST PARIS
RIDGEMOOR
CASCADE HILLS
Cascade
THORNAPPLE
GRR Airport
Proposed Relocated ATCT
Existing ATCT
KENTWOOD
BAILEY'S GROVE
Alaska
DUTTON
Grand River
Google Earth
3 mi
N


Project Area Map
Legend
GRR Airport
Proposed Relocated ATCT
Existing ATCT
Google Earth
N
4000 ft

Notification of Project at Gerald R. Ford International Airport (GRR)

Brian Matuk <Brian.Matuk@meadhunt.com>

Tue 2024-03-12 3:39 PM

To:grhs.local@gmail.com <grhs.local@gmail.com>

1 attachments (6 MB)

GRR_ATCT_Study_Area.pdf;

Grand Rapids Historical Society:

On behalf of the Gerald R. Ford International Airport (GRR), Mead & Hunt is completing a historic resources evaluation report for a proposed project expected to consist of removal of the 1964 air traffic control tower. See attached study area for reference to the location of these activities in relation to the overall airport property and surrounding area.

The project is subject to review by the Federal Aviation Administration (FAA) under Section 106 of the National Historic Preservation Act (Section 106) to identify and take into account any effects the proposed project may have on historic properties. A historic property is defined as any historic district, site, building, structure, or object included in, or eligible for inclusion in, the National Register of Historic Places. The historic resources evaluation report will be focused on documenting and evaluating buildings and structures within the immediate area of the 1964 air traffic control tower to determine if this building and/or the extant components of its attached terminal building qualifies as a historic property under Section 106.

I plan to visit the Grand Rapids History Center at the Main Library in April, as the finding aids suggest there may be historical information on the airport. If you believe there is any additional information we should consider in our research or evaluation, please submit at your earliest convenience to Brian Matuk, Cultural Resources Specialist at Mead & Hunt, Inc. at brian.matuk@meadhunt.com.

Regards,
Brian Matuk

Brian Matuk (He, Him, His)

Historian, Cultural Resources | Cultural Resources

Direct: 916-993-4603 | Transfer Files

Mead&Hunt

LinkedIn | Facebook | Instagram

Gerald R. Ford International Airport
Air Traffic Control Tower Relocation
Cascade Charter Township, Kent County

Legend

Study Area

2 Mile Buffer

N

0 1,250 2,500 5,000 Feet

28th St SE
29th St SE
Kentwood Town Center
Tahoe Dr SE
Forest Hills
Thornapple River Dr SE
Thornecrest Dr SE
30th St SE
Hotel Ave
33rd St SE
Kraft Ave SE
96
Mill Pond
Cascade Rd SE
37
36th St SE
E Paris Ave SE
Broadmoor Ave SE
Shafer Ave SE
Breton Ave SE
Fellowship Greens Golf Course
Perimeter Rd SE
Woodbrook Dr SE
Cascade Recreation Park
40th St SE
Patterson Ave SE
Brockton Dr SE
Gateway Dr SE
44th St SE
Ross Dr SE
Kentwood
Walma Ave
Terminal Dr SE
Gerald R. Ford International Airport
Thornapple River Dr SE
The Golf Club at Thornapple Pointe
6
48th St SE
50th St SE
52nd St SE
Perimeter Rd SE
Executive Pkwy SE
Paul B Henry Fwy W
Thornview Dr SE
60th St SE
Old 60th St SE

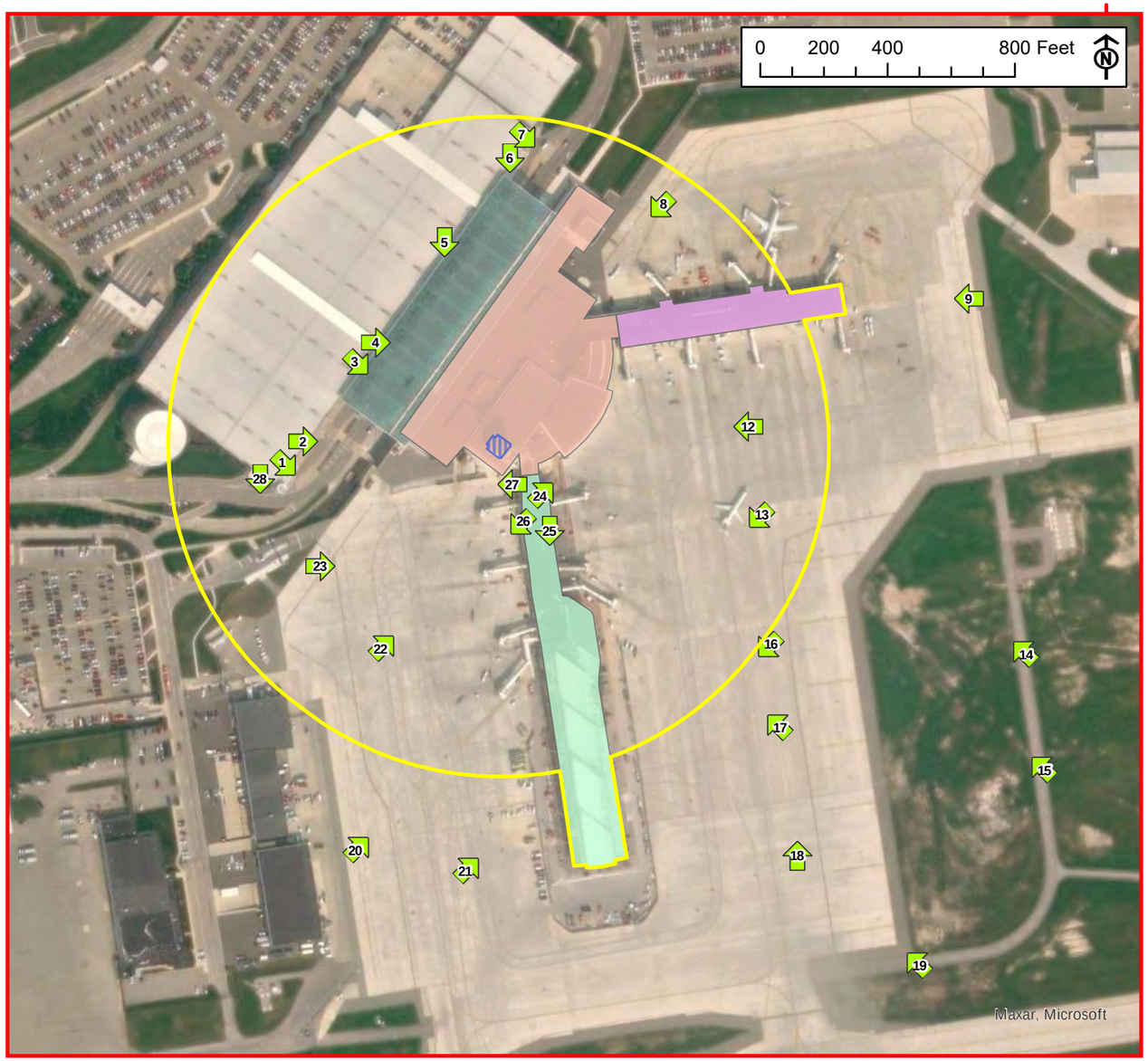
Appendix I. Photographs

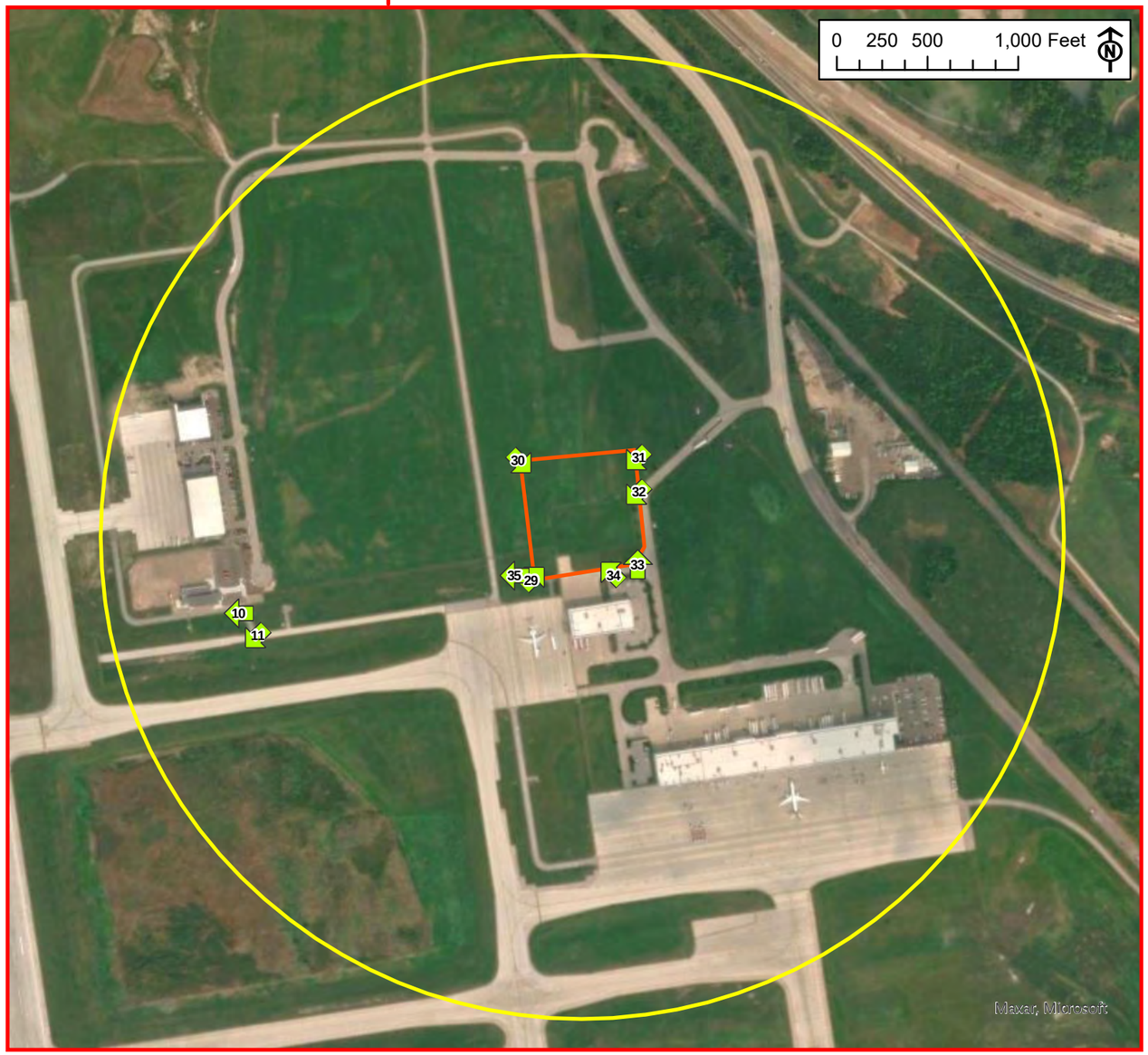
Photo Key

- Built-Environment APE
- Archaeology APE
- Photo Number and Direction

Terminal Building Components

- Primary Terminal Area
- Concourse A
- Tower
- Concourse B





Photographs
Gerald R. Ford International Airport Air Traffic Control Tower Relocation Project
Cascade Charter Township, Kent County

Photo 1: Primary Terminal Area at far left with west elevation of Concourse A at center, view southeast.

Photo 2: Primary Terminal Area, showing the northwest and southwest elevations, view east.

Photographs
Gerald R. Ford International Airport Air Traffic Control Tower Relocation Project
Cascade Charter Township, Kent County

Photo 3: Part of the northwest elevation of the Primary Terminal Area, with the contemporary glass canopy (top) and skywalk (left) visible, view southeast.

Photo 4: Part of the northwest elevation of the Primary Terminal Area, view east.

Photographs
Gerald R. Ford International Airport Air Traffic Control Tower Relocation Project
Cascade Charter Township, Kent County

Photo 5: Part of the northwest elevation of the Primary Terminal Area, view south.

Photo 6: Part of the northwest elevation of the Primary Terminal Area, view south.

Photographs
Gerald R. Ford International Airport Air Traffic Control Tower Relocation Project
Cascade Charter Township, Kent County

Photo 7: The north elevation of Concourse B (center) and the northern end of Primary Terminal Area, showing part of the northeast and northwest elevations, view southeast.

Photo 8: Northeast elevation of the Primary Terminal Area, showing the Air Traffic Control Tower, view southwest.

Photographs
Gerald R. Ford International Airport Air Traffic Control Tower Relocation Project
Cascade Charter Township, Kent County

Photo 9: The southeast and northeast elevations of the Air Traffic Control Tower, with part of the east elevation of Concourse B visible at far right, view west.

Photo 10: View west of the APE from the airfield, showing the Terminal Building.

Photo 11: View southwest of the APE from the airfield, showing the east elevation of Concourse A, with the Primary Terminal Area visible at far-right.

Photo 12: Part of the east elevation of Concourse A at center-left and part of the southeast elevation of the Primary Terminal Area, view west. The Air Traffic Control Tower's southeast and northeast elevations are visible at right.

Photo 13: Part of the east elevation of Concourse A, view southwest.

Photo 14: Part of the southeast elevation of the Primary Terminal Area, view northwest. The Air Traffic Control Tower's southeast and northeast elevations are visible at left.

Photo 15: Part of the east elevation of Concourse A at center-left and part of the southeast elevation of the Primary Terminal Area at center-right, view northwest.

Photo 16: Part of the east elevation of Concourse A near its southern end, view southwest.

Photo 17: Part of the east elevation of Concourse A at left, and part of the southeast elevation of the Primary Terminal Area at center-right, view northwest.

Photo 18: Part of the east elevation of Concourse A at left, part of the southeast elevation of the Primary Terminal Area at center, and part of the west elevation of Concourse B at far-right, view north.

Photo 19: View northwest toward the APE from the airfield, showing the Terminal Building.

Photo 20: The southwest elevation and part of the southeast elevation of the Primary Terminal Area, view northeast. The west elevation of Concourse A is at right, obscured by passenger boarding bridges.

Photo 21: Part of the west elevation of Concourse A, view northeast.

Photo 22: Southwest elevation and part of the southeast elevation of the Primary Terminal Area, view northeast.

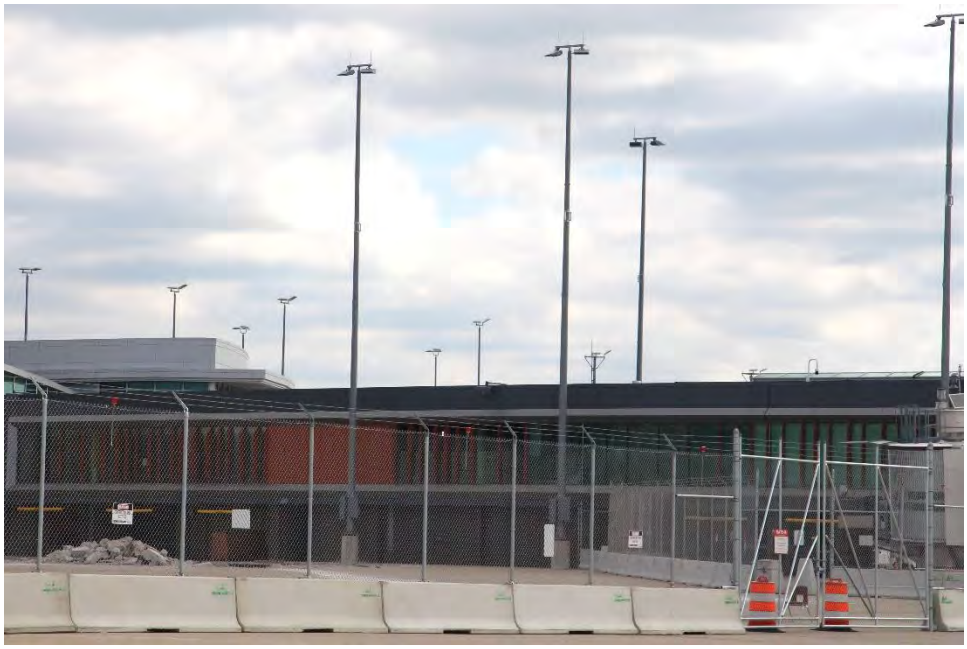


Photo 23: Part of the west elevation of Concourse A, view east.

Photo 24: View northeast from the rooftop of Concourse A toward part of the southwest and southeast elevations of the Primary Terminal Area at left, and toward the west elevation of Concourse B at center.

Photo 25: View south toward the southern end of Concourse A from its rooftop.

Photo 26: View southwest of the area west of the Terminal Building from the rooftop of Concourse A.

Photo 27: View west from the rooftop of Concourse A, toward the parking garage and glass canopy. The Primary Terminal Area is visible at center-left.

Photo 28: View south toward the airfield apron west of the Terminal Building.

Figure 29: View from the southwestern corner of the Archaeological APE, facing northeast.

Figure 30: View from the northwestern corner of the Archaeological APE, facing southeast.

Figure 31: View from the northeastern corner of the Archaeological APE, facing southwest.

Figure 32: View of artificial field drainage channel in the center of the Archaeological APE, facing southwest.

Figure 33: View from the southeastern corner of the Archaeological APE, facing north.

Figure 34: View of disturbance along the southern border of the Archaeological APE, facing northwest.

Figure 35: View of the current ATCT from the southwestern corner of the Archaeological APE, facing west.

Appendix H – Noise

APO TERMINAL AREA FORECAST DETAIL REPORT
Forecast Issued January 2024

GRR

	AIRCRAFT OPERATIONS													
	Enplanements			Itinerant Operations					Local Operations					
Fiscal Year	Air Carrier	Commuter	Total	Air Carrier	Air Taxi & Commuter	GA	Military	Total	Civil	Military	Total	Total Ops	Total Tracon Ops	Based Aircraft
REGION:AGL **STATE:**MI **LOCID:**GRR														
CITY:GRAND RAPIDS **AIRPORT:**GERALD R FORD INTL														
2015	716,844	540,087	1,256,931	22,278	19,233	24,463	428	66,402	9,518	264	9,782	76,184	97,148	92
2016	755,432	557,241	1,312,673	23,905	17,551	25,789	534	67,779	11,566	320	11,886	79,665	99,148	93
2017	884,653	503,893	1,388,546	25,321	16,728	25,198	492	67,739	13,967	318	14,285	82,024	100,971	92
2018	987,766	586,035	1,573,801	29,331	15,992	24,582	672	70,577	11,833	687	12,520	83,097	103,574	88
2019	1,123,414	624,661	1,748,075	33,870	14,721	23,721	516	72,828	11,936	372	12,308	85,136	37,035	72
2020	714,241	387,063	1,101,304	29,072	7,830	19,624	280	56,806	7,112	85	7,197	64,003	0	69
2021	829,636	420,371	1,250,007	29,743	10,249	22,971	324	63,287	8,326	72	8,398	71,685	0	68
2022	1,267,029	424,820	1,691,849	32,166	13,821	23,409	413	69,809	5,611	48	5,659	75,468	0	70
2023*	1,459,754	388,460	1,848,214	32,375	12,676	23,600	364	69,015	5,734	36	5,770	74,785	0	71
2024*	1,677,254	352,479	2,029,733	37,055	12,034	26,057	364	75,510	12,188	36	12,224	87,734	0	72
2025*	1,715,717	360,542	2,076,259	38,136	11,725	26,083	364	76,308	12,249	36	12,285	88,593	0	73
2026*	1,752,754	368,325	2,121,079	39,547	11,012	26,109	364	77,032	12,310	36	12,346	89,378	0	74
2027*	1,792,002	376,572	2,168,574	40,472	10,897	26,135	364	77,868	12,372	36	12,408	90,276	0	75
2028*	1,833,076	385,193	2,218,269	41,211	11,017	26,161	364	78,753	12,434	36	12,470	91,223	0	76
2029*	1,871,911	393,345	2,265,256	41,901	11,138	26,187	364	79,590	12,496	36	12,532	92,122	0	77
2030*	1,910,878	401,533	2,312,411	42,592	11,261	26,213	364	80,430	12,558	36	12,594	93,024	0	78
2031*	1,949,974	409,740	2,359,714	43,280	11,385	26,240	364	81,269	12,621	36	12,657	93,926	0	79
2032*	1,989,880	418,127	2,408,007	43,985	11,510	26,266	364	82,125	12,684	36	12,720	94,845	0	80
2033*	2,030,155	426,589	2,456,744	44,695	11,637	26,292	364	82,988	12,748	36	12,784	95,772	0	81
2034*	2,071,479	435,270	2,506,749	45,427	11,766	26,318	364	83,875	12,811	36	12,847	96,722	0	82
2035*	2,114,980	444,412	2,559,392	46,200	11,897	26,345	364	84,806	12,876	36	12,912	97,718	0	83
2036*	2,159,304	453,730	2,613,034	46,988	12,030	26,371	364	85,753	12,940	36	12,976	98,729	0	84
2037*	2,203,932	463,101	2,667,033	47,778	12,164	26,397	364	86,703	13,005	36	13,041	99,744	0	85
2038*	2,249,106	472,599	2,721,705	48,579	12,300	26,424	364	87,667	13,070	36	13,106	100,773	0	86
2039*	2,295,554	482,357	2,777,911	49,405	12,438	26,450	364	88,657	13,135	36	13,171	101,828	0	87
2040*	2,343,042	492,345	2,835,387	50,252	12,577	26,477	364	89,670	13,201	36	13,237	102,907	0	88
2041*	2,390,219	502,255	2,892,474	51,089	12,718	26,503	364	90,674	13,267	36	13,303	103,977	0	89
2042*	2,438,953	512,506	2,951,459	51,964	12,861	26,530	364	91,719	13,333	36	13,369	105,088	0	90
2043*	2,489,205	523,067	3,012,272	52,870	13,006	26,556	364	92,796	13,400	36	13,436	106,232	0	91
2044*	2,539,616	533,670	3,073,286	53,780	13,153	26,583	364	93,880	13,467	36	13,503	107,383	0	92

APO TERMINAL AREA FORECAST DETAIL REPORT
Forecast Issued January 2024

GRR

AIRCRAFT OPERATIONS

	Enplanements			Itinerant Operations					Local Operations					
Fiscal Year	**Air Carrier**	**Commuter**	**Total**	**Air Carrier**	**Air Taxi & Commuter**	**GA**	**Military**	**Total**	**Civil**	**Military**	**Total**	**Total Ops**	**Total Tracon Ops**	**Based Aircraft**
2045*	2,590,716	544,414	3,135,130	54,708	13,302	26,609	364	94,983	13,534	36	13,570	108,553	0	93
2046*	2,642,463	555,296	3,197,759	55,651	13,453	26,636	364	96,104	13,602	36	13,638	109,742	0	94
2047*	2,694,704	566,281	3,260,985	56,606	13,605	26,663	364	97,238	13,670	36	13,706	110,944	0	95
2048*	2,747,682	577,426	3,325,108	57,580	13,759	26,689	364	98,392	13,738	36	13,774	112,166	0	96
2049*	2,802,116	588,878	3,390,994	58,585	13,915	26,716	364	99,580	13,807	36	13,843	113,423	0	97
2050*	2,857,598	600,556	3,458,154	59,616	14,073	26,743	364	100,796	13,876	36	13,912	114,708	0	98

TFMSC Report (Airport)

From 01/2023 To 12/2023 | Airport=GRR

#	Physical Class	Departures	Arrivals	Total Operations	Departure Seats	Average Departure Seats	Arrival Seats	Average Arrival Seats
1	-	72	91	163	498	6	424	4
2	Jet	25,107	25,085	50,192	2,286,727	91	2,285,539	91
3	Piston	1,536	1,525	3,061	7,251	4	7,278	4
4	Turbine	2,481	2,493	4,974	11,066	4	11,025	4
Total:		**29,196**	**29,194**	**58,390**	**2,305,542**	**78**	**2,304,266**	**78**

Report created on Fri Aug 9 15:39:17 EDT 2024
Sources: Traffic Flow Management System Counts (TFMSC), Aviation System Performance Metrics (ASPM)

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIRPORT MASTER RECORD

PRINT DATE: 8/9/2024
AFD EFF 08/08/2024
FORM APPROVED OMB 2120-0015

> 1 ASSOC CITY:	GRAND RAPIDS	4 STATE: MI	LOC ID: GRR	FAA SITE NR:	09852.*A
> 2 AIRPORT NAME:	GERALD R FORD INTL		5 COUNTY: KENT MI		
3 CBD TO AIRPORT (NM):	06 SE	6 REGION/ADO: AGL/DET	7 SECT AERO CHT: CHICAGO		

GENERAL

10 OWNERSHIP:	PUBLIC
> 11 OWNER:	GERALD R FORD INTL ARPT AUTH
> 12 ADDRESS:	5500 44TH ST SE GRAND RAPIDS, MI 49512
> 13 PHONE NR:	616-233-6000
> 14 MANAGER:	TORRANCE RICHARDSON
> 15 ADDRESS:	5500 44TH ST SE GRAND RAPIDS, MI 49512
> 16 PHONE NR:	616-233-6000
> 17 ATTENDANCE SCHEDULE:	

ALL	ALL	ALL

18 AIRPORT USE:	PUBLIC
19 ARPT LAT:	42-52-51.0000N ESTIMATED
20 ARPT LONG:	085-31-22.1000W
21 ARPT ELEV:	793.6 SURVEYED
22 ACREAGE:	3,127
> 23 RIGHT TRAFFIC:	NO
> 24 NON-COMM LANDING:	NO
25 NPIAS/FED AGREEMENTS:	NGY
> 26 FAR 139 INDEX:	I C S 05/1973

SERVICES

> 70 FUEL:	100LL A
> 71 AIRFRAME RPRS:	MAJOR
> 72 PWR PLANT RPRS:	MAJOR
> 73 BOTTLE OXYGEN:	HIGH
> 74 BULK OXYGEN:	HIGH
75 TSNT STORAGE:	HGR, TIE
76 OTHER SERVICES:	AFRT, AMB, AVNCS, CARGO, CHTR, INSTR, RNTL, SALES

FACILITIES

> 80 ARPT BCN:	WG
> 81 ARPT LGT SKED :	SEE RMK
BCN LGT SKED:	SS-SR
> 82 UNICOM:	122.950
> 83 WIND INDICATOR:	YES-L
84 SEGMENTED CIRCLE:	NONE
85 CONTROL TWR:	YES
86 FSS:	LANSING
87 FSS ON ARPT:	NO
88 FSS PHONE NR:	
89 TOLL FREE NR:	1-800-WX-BRIEF

BASED AIRCRAFT

90 SINGLE ENG:	29
91 MULTI ENG:	7
92 JET:	51
93 HELICOPTERS:	6
TOTAL:	93
94 GLIDERS:	0
95 MILITARY:	0
96 ULTRA-LIGHT:	0

OPERATIONS

100 AIR CARRIER:	33,327
102 AIR TAXI:	12,340
103 G A LOCAL:	7,023
104 G A ITNRNT:	23,500
105 MILITARY:	377
TOTAL:	76,567
OPERATIONS FOR 12 MONTHS ENDING:	12/31/2023

RUNWAY DATA

	08L/26R	08R/26L	17/35	
> 30 RUNWAY INDENT:	5,001	10,001	8,501	
> 31 LENGTH:	100	150	150	
> 32 WIDTH:	ASPH-G	CONC-G	CONC-G	
> 33 SURF TYPE-COND:	GRVD	GRVD	GRVD	
> 34 SURF TREATMENT:	110.0			
35 GROSS WT: S	160.0	190.0	190.0	
36 (IN THSDS) D		350.0	350.0	
37 2D				
38 2D/2D2				
> 39 PCN:	45 /F/C/X/T	62 /R/B/W/T	60 /R/B/W/T	

LIGHTING/APCH AIDS

> 40 EDGE INTENSITY:	MED	HIGH	HIGH	
> 42 RWY MARK TYPE-COND:	NPI - G / NPI - G	PIR - G / PIR - G	NPI - G / PIR - G	- / -
> 43 VGSI:	V4L / V4L	/ P4L	P4R / P4R	/
44 THR COSSING HGT.:	45 / 33	/ 73	50 / 74	/
45 VISUAL GLIDE ANGLE:	3.00 / 3.00	/ 3.00	3.00 / 3.00	/
> 46 CNTRLN-TDZ:	N - N / N - N	N - N / N - N	N - N / N - N	- / -
> 47 RVR-RVV:	- N / - N	TR - N / TR - N	TR - / TR -	- / -
> 48 REIL:	Y / Y	N / N	Y / N	/
> 49 APCH LIGHTS:	/	MALSR / MALSR	/ MALSR	/

OBSTRUCTION DATA

50 FAR 77 CATEGORY	C / C	PIR / PIR	C / PIR	/
> 51 DISPLACED THR:	/	/	/	/
> 52 CTLG OBSTN:	/	/ BLDG	/	/
> 53 OBSTN MARKED/LGTD:	/	/	/	/
> 54 HGT ABOVE RWY END:	/	/ 24	/	/
> 55 DIST FROM RWY END:	/	/ 1,170	/	/
> 56 CNTRLN OFFSET:	/	/ 260L	/	/
57 OBSTN CLNC SLOPE:	34:1 / 34:1	50:1 / 40:1	50:1 / 50:1	/
58 CLOSE-IN OBSTN:	N / N	N / N	N / N	/

DECLARED DISTANCES

> 60 TAKE OFF RUN AVBL (TORA):	5,001 / 5,001	10,001 / 10,001	8,501 / 8,501	/
> 61 TAKE OFF DIST AVBL (TODA):	5,001 / 5,001	10,001 / 10,001	8,501 / 8,501	/
> 62 ACLT STOP DIST AVBL (ASDA):	5,001 / 5,001	10,001 / 10,001	8,501 / 8,501	/
> 63 LNDG DIST AVBL (LDA):	5,001 / 5,001	10,001 / 10,001	8,501 / 8,501	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

A 081	WHEN ATCT CLSD ACTVT MALSR RWY 08R, 26L, & 35; REIL RWY 08L, 26R, & 17; HIRL RWY 08R/26L & 17/35; MIRL RWY 08L/26R - CTAF.
A 110-001	TWY F NORTH OF TWY V, TWY J BTN TWY F & TWY J3 & TWY G CLSD TO AIRCRAFT OVER 100,000 LBS; TWY F SOUTH OF TWY V & TWY J EAST OF TWY F & WEST OF TWY J3 CLSD TO ACFT OVER 47,000 LBS.
A 110-002	BIRDS ON & INVOF ARPT.
A 110-008	NOISE ABATEMENT PROCEDURES: RY 08R DEP ON RY HEADING UNTIL REACHING THE HWY EAST OF ARPT; RY 26L ON APCH TO ARPT TURN FINAL AT HWY EAST OF ARPT.
A 110-009	PPR FOR ACFT WITH 171 FT WINGSPAN OR LARGER.
A 110-010	TWY R NORTH OF TWY D, TWY Y NORTH OF TWY D, TWY Z NORTH OF TWY D AND TWY N ARE NON-MOVEMENT AREAS.
A 110-011	PUSHBACK ADVISORIES ON THE TERMINAL RAMP ARE NOT PRVDD BY ATC.
A 110-014	ARPT PSNL WILL MNT CTAF WHEN ATCT IS CLSD.
A 110-015	TWY Y 400 FT NORTH OF TWY D CLSD TO ACFT OVER 100,000 LBS.; TWY R NORTH OF TWY D CLSD TO ACFT OVER 175,000 LBS.
A 110-016	AIR CARRIER APRON CLOSED TO GA AIRCRAFT.
A 110-017	CTC FBO FOR THEIR HRS OF OPN.
A 110-018	FOR CD WHEN TWR CLSD CTC GREAT LAKES APCH AT 269-459-3344, WHEN APCH CLSD CTC CHICAGO ARTCC AT 630-906-8921.

111 INSPECTOR: (F) 112 LAST INSP: 06/13/2024 113 LAST INFO REQ:

U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL AVIATION ADMINISTRATION

AIRPORT MASTER RECORD

PRINT DATE: 8/9/2024
AFD EFF 08/08/2024
FORM APPROVED OMB 2120-0015

> 1 ASSOC CITY: ***CONTINUED*** 4 STATE: MI LOC ID: GRR FAA SITE NR: 09852.*A
> 2 AIRPORT NAME: 5 COUNTY:
3 CBD TO AIRPORT (NM): 6 REGION/ADO: AGL/DET 7 SECT AERO CHT:

GENERAL

10 OWNERSHIP:
> 11 OWNER:
> 12 ADDRESS:

> 13 PHONE NR:
> 14 MANAGER:
> 15 ADDRESS:

> 16 PHONE NR:
> 17 ATTENDANCE SCHEDULE:

18 AIRPORT USE:
19 ARPT LAT:
20 ARPT LONG:
21 ARPT ELEV:
22 ACREAGE:
> 23 RIGHT TRAFFIC:
> 24 NON-COMM LANDING:

25 NPIAS/FED AGREEMENTS:
> 26 FAR 139 INDEX:

SERVICES

> 70 FUEL:

> 71 AIRFRAME RPRS:
> 72 PWR PLANT RPRS:
> 73 BOTTLE OXYGEN:
> 74 BULK OXYGEN:
75 TSNT STORAGE:
76 OTHER SERVICES:

FACILITIES

> 80 ARPT BCN:
> 81 ARPT LGT SKED :
BCN LGT SKED:
> 82 UNICOM:
> 83 WIND INDICATOR:
84 SEGMENTED CIRCLE:
85 CONTROL TWR:
86 FSS:
87 FSS ON ARPT:

88 FSS PHONE NR:
89 TOLL FREE NR:

BASED AIRCRAFT

90 SINGLE ENG:
91 MULTI ENG:
92 JET:
93 HELICOPTERS:
TOTAL:

94 GLIDERS:
95 MILITARY:
96 ULTRA-LIGHT:

OPERATIONS

100 AIR CARRIER:
102 AIR TAXI:
103 G A LOCAL:
104 G A ITNRNT:
105 MILITARY:
TOTAL:

OPERATIONS FOR
12 MONTHS
ENDING:

RUNWAY DATA

> 30 RUNWAY INDENT:				
> 31 LENGTH:				
> 32 WIDTH:				
> 33 SURF TYPE-COND:				
> 34 SURF TREATMENT:				
35 GROSS WT:	S			
36 (IN THSDS)	D			
37	2D			
38	2D/2D2			
> 39 PCN:				

LIGHTING/APCH AIDS

> 40 EDGE INTENSITY:				
> 42 RWY MARK TYPE-COND:	- / -	- / -	- / -	- / -
> 43 VGSI:	/	/	/	/
44 THR COSSING HGT.:	/	/	/	/
45 VISUAL GLIDE ANGLE:	/	/	/	/
> 46 CNTRLN-TDZ:	- / -	- / -	- / -	- / -
> 47 RVR-RVV:	- / -	- / -	- / -	- / -
> 48 REIL:	/	/	/	/
> 49 APCH LIGHTS:	/	/	/	/

OBSTRUCTION DATA

50 FAR 77 CATEGORY	/	/	/	/
> 51 DISPLACED THR:	/	/	/	/
> 52 CTLG OBSTN:	/	/	/	/
> 53 OBSTN MARKED/LGTD:	/	/	/	/
> 54 HGT ABOVE RWY END:	/	/	/	/
> 55 DIST FROM RWY END:	/	/	/	/
> 56 CNTRLN OFFSET:	/	/	/	/
57 OBSTN CLNC SLOPE:	/	/	/	/
58 CLOSE-IN OBSTN:	/	/	/	/

DECLARED DISTANCES

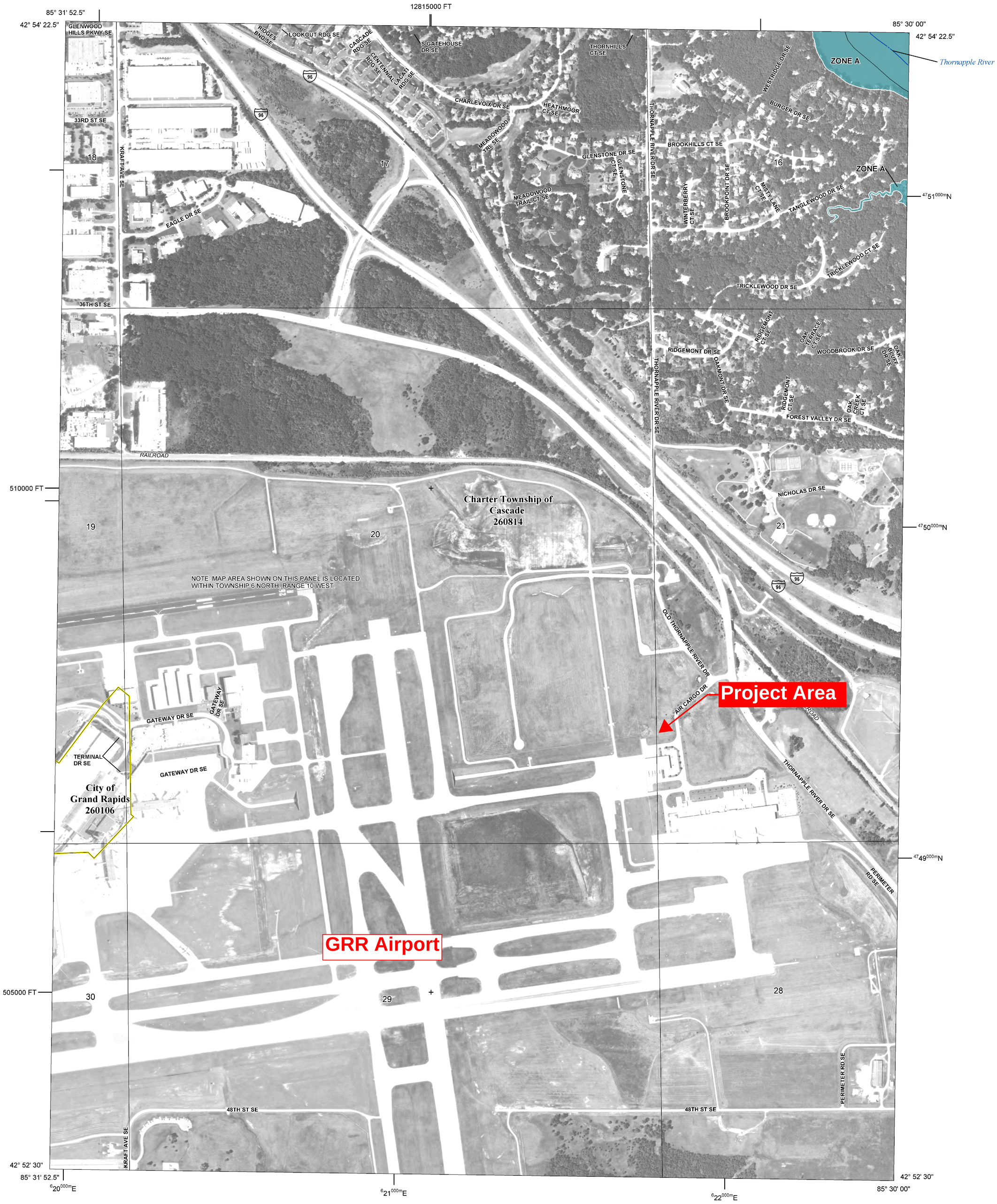
> 60 TAKE OFF RUN AVBL (TORA):	/	/	/	/
> 61 TAKE OFF DIST AVBL (TODA):	/	/	/	/
> 62 ACLT STOP DIST AVBL (ASDA):	/	/	/	/
> 63 LNDG DIST AVBL (LDA):	/	/	/	/

(>) ARPT MGR PLEASE ADVISE FSS IN ITEM 86 WHEN CHANGES OCCUR TO ITEMS PRECEDED BY >

> 110 REMARKS

111 INSPECTOR: (F) 112 LAST INSP: 06/13/2024 113 LAST INFO REQ:

Appendix I – Floodplains



FLOOD HAZARD INFORMATION

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

THE INFORMATION DEPICTED ON THIS MAP AND SUPPORTING DOCUMENTATION ARE ALSO AVAILABLE IN DIGITAL FORMAT AT

HTTPS://MSC.FEMA.GOV

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A,V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Areas of Minimal Flood Hazard *Zone X*
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 18.2 / E / 17.5 — Cross Sections with 1% Annual Chance Water Surface Elevation
- 8 — Coastal Transect
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary

NOTES TO USERS

For information and questions about this Flood Insurance Rate Map (FIRM), available products associated with this FIRM, including historic versions, the current map date for each FIRM panel, how to order products, or the National Flood Insurance Program (NFIP) in general, please call the FEMA Mapping and Insurance eXchange at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA Flood Map Service Center website at https://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the website.

Communities annexing land on adjacent FIRM panels must obtain a current copy of the adjacent panel as well as the current FIRM Index. These may be ordered directly from the Flood Map Service Center at the number listed above.

For community and countywide map dates refer to the Flood Insurance Study Report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

Base map information shown on this FIRM was provided in digital format by multiple agencies. The following sources provided base data: Kent County, Michigan, the United States Geological Survey (USGS), the United States Department of Agriculture (USDA), and the Center for Shared Solutions and Technology Partnerships. Imagery was provided in digital format by the United States Department of Agriculture, dated 2016, and has a 1-meter ground resolution.

SCALE

N

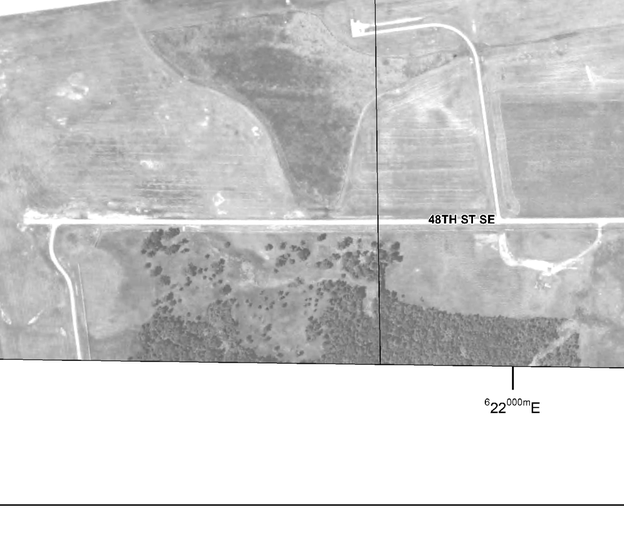
Map Projection:
NAD 1983 StatePlane Michigan South FIPS 2113 Feet Intl;
Western Hemisphere; Vertical Datum: NAVD 88

1 inch = 500 feet 1:6,000

0 500 1,000 2,000 feet

0 125 250 500 meters

PANEL LOCATOR



* PANEL NOT PRINTED

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

KENT COUNTY, MICHIGAN
All Jurisdictions

PANEL 444 OF 625

FEMA

Panel Contains:

COMMUNITY	NUMBER	PANEL	SUFFIX
CASCADE, CHARTER TOWNSHIP OF	260814	0444	D
GRAND RAPIDS, CITY OF	260106	0444	D

VERSION NUMBER
2.6.3.0

MAP NUMBER
26081C0444D

EFFECTIVE DATE
FEBRUARY 23, 2023

Appendix J – Ground Water

Water Wells - West Central Lower Peninsula

Water wells from Wellogic, the EGLE statewide ground water database. This data is specific to the west central lower peninsula of Michigan.

Maxar | Esri Community Maps Contributors, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Wellhead Protection Areas (WHPA)

EGLE's source water protection program includes identification of areas where groundwater is used to supply drinking water to communities. A Wellhead Protection Area (WHPA) is the surface and subsurface area surrounding a water well or well field, supplying a public water system, through which contaminants are reasonably likely to move toward and reach such water well or well field. It is that area which contributes groundwater to a public water supply well.

Earthstar Geographics | Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA, USFWS

Appendix K – Reasonably Foreseeable Effects in the Context of Past, Present and Reasonably Foreseeable Future Actions

GERALD R. FORD INTERNATIONAL AIRPORT
FEDERAL AIRPORT CAPITAL IMPROVEMENT PROGRAM (CIP) FY-2022 to FY-2026

Airport Name: Gerald R. Ford International — Airport Identifier: GRR — Date prepared: October 18, 2021 — Updated: November 30, 2021

Associated City: Grand Rapids — Prepared By: Casey Ries

Sponsor: Gerald R. Ford International Airport Authority — NPIAS Airport Code**: B — Sponsor email address & phone: Casey Ries, cries@grr.org, 616-233-6040

Development Year	Project Description	On ALP? (Yes, No, N/A)	ACIP Code**	NPIAS Priority Rating**	Federal Entitlements	PFC	Other Federal Funding	Federal Discretionary	State	Local	Total	Remarks/Project Justification
	Carryover entitlement funds				587,307							2020 Entitlement @ 90% Federal
2021	South Perimeter Road Reconstruction - Drainage	Yes	OT/GT/SV	29	441,365				24,520	24,521	490,406	Continuation of perimeter/ARFF road improvements. Includes recovery of 2020 drainage work.
2021	Eastside GA Apron	Yes	CA/AP/CO	70	3,797,486				210,971	210,972	4,219,429	Recovery of prior eligible expenses due to COVID financial impacts.
2021	Eastside GA Fencing	Yes	SA/EQ/SE	87	155,071				8,615	8,615	172,301	Recovery of prior eligible expenses due to COVID financial impacts.
2021	Concourse A Expansion - Construction, Year 1	Yes	CA/TE/EX	48		3,000,000				2,000,000	5,000,000	Expansion and widening of Concourse A for additional gates - capacity. Assumes 60% eligibility.
	Carryover entitlement funds				1,159,640							P2021 = $4,816,803 + C2021 = $149,452 @ 90% Federal
2022	Concourse A Expansion - Construction, Year 2	Yes	CA/TE/EX	48		40,800,000				27,200,000	68,000,000	Expansion and widening of Concourse A for additional gates - capacity. Assumes 60% eligibility.
2022	ATCT Replacement - Design	Yes	ST/BD/MS	39			4,300,000	(OPP)			4,300,000	Design phase of tower replacement, ATC facilities focus. Site selection completed in 2021. Federal funding opportunities with ATC or Airports Divisions.
2022	South Perimeter Road Reconstruction - Const.	Yes	OT/GT/SV	29	2,520,000				140,000	140,000	2,800,000	Continuation of perimeter/ARFF road improvements, design completed in 2020 and funded with 2019 AIP entitlements.
2022	Snow Removal Equipment Building - Design	Yes	ST/BD/SN	51	450,000				25,000	25,000	500,000	Design of a snow removal equipment storage building at the field maintenance complex.
2022	Airfield Electrical Improvements - 8R/26L and 17/35	Yes	RE/RW/LI	81	3,676,500				204,250	204,250	4,085,000	Replacement of runway 8R/26L and 17/35 homeruns and fixtures due to decreasing resistance on circuits. Including Runway Guard Lights.
2022	ALCMS Upgrades	Yes	RE/RW/LI	81	279,000				15,500	15,500	310,000	Upgrade of primary system components and controls installed in 2014.
2022	Environmental Pilot Program	N/A	EN/OT/MT	47			637,900			637,900	1,275,800	2021 FAA environmental pilot program application - PFAS/surface water mitigation.
2022	Checked Baggage Inspection System - Design	N/A	CA/TE/IM	48			1,500,000	(OPP)		1,500,000	3,000,000	Assumes 50% allocable for TSA OTA. Opportunity for terminal infrastructure funding.
2022	Fuel Farm Improvements	Yes	OT/OT/FF	31			(OPP)	(OPP)		3,168,000	3,168,000	Aviation fuel farm improvements as identified in the 2019 Master Plan. Opportunity for terminal infrastructure funding.
2022	Northbound Airport Entry Improvements	No	OT/GT/AC	32			(OPP)	(OPP)		4,910,000	4,910,000	Roadway and traffic flow improvements including airport entry, aviation fuel farm traffic, and car rental traffic. Opportunity for terminal infrastructure funding.
2022	Snow Removal Equipment Building - Construction	Yes	ST/BD/SN	51			(OPP)	(OPP)		6,500,000	6,500,000	Construction of a snow removal equipment storage building at the field maintenance complex, Phase 1. Opportunity for eligible infrastructure funding.
2022	ARFF Relocation - Design	Yes	SA/BD/RF	64			(OPP)	(OPP)		1,100,000	1,100,000	Relocation to the east side of the airfield in accordance with Master Plan requirements. Opportunity for eligible infrastructure funding.
2022	Runway 8L/26R Surface Treatment	Yes	RE/RW/IM	81			(OPP)	(OPP)		230,000	230,000	P-608 surface treatment, last application 2016. Opportunity for eligible infrastructure funding.
2022	Perimeter Gate Replacement	Yes	SA/EQ/SE	87			(OPP)	(OPP)		375,000	375,000	Year 2 of perimeter gate replacement project based on TSA engagement. Opportunity for eligible infrastructure funding.
2022	Concourse B Enclosure Replacement - Design	Yes	CA/TE/IM	48			(OPP)	(OPP)		600,000	600,000	Building envelope replacement and improvements. Opportunity for eligible infrastructure funding.
2022	Service Animal Relief Area	Yes	CA/TE/EX	48		180,000				20,000	200,000	With expansion and widening of Concourse A for additional requirements with post-security public area growth and current facility requirements.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M
2023	Concourse A Expansion - Construction, Year 3	Yes	CA/TE/EX	48		23,400,000				15,600,000	39,000,000	Expansion and widening of Concourse A for additional gates - capacity. Assumes 60% eligibility.
2023	ATCT Replacement - Construction	Yes	ST/BD/MS	39			54,900,000				54,900,000	Construction phase of tower replacement, ATC facilities focus. Site selection completed in 2021. Federal funding opportunities with ATC or Airports Divisions.
2023	Taxiway K Extension and Wetland Mitigation	Yes	CA/TW/EX	76	5,100,000			9,777,900	826,550	826,550	16,531,000	Extend Taxiway K from Taxiway V to Taxiway D. Includes wildlife habitat mitigation.
2023	Taxiway F and Taxiway V Rehabilitation	Yes	RE/TW/IM	76				2,048,400	113,800	113,800	2,276,000	Rehabilitation Taxiway F and Taxiway V.
2023	Taxiway F and Taxiway V Pavement Removal	Yes	SA/TW/IM	80				1,439,100	79,950	79,950	1,599,000	Remove existing pavement from Taxiway F and Taxiway V hotspots.
2023	Checked Baggage Inspection System - Const., Year 1	N/A	CA/TE/IM	48			12,000,000	(OPP)		18,000,000	30,000,000	Assumes 40% allocable for TSA OTA. Opportunity for terminal infrastructure funding.
2023	Federal Inspection Station, Phase 2 - Year 1	Yes	ST/BD/CO	48			(OPP)	(OPP)	12,100,000		12,100,000	Construction of a new FIS per CBP standards. Opportunity for eligible infrastructure funding.
2023	ARFF Relocation - Construction	Yes	SA/BD/RF	64			(OPP)	(OPP)		14,500,000	14,500,000	Relocation to the east side of the airfield in accordance with Master Plan requirements. Opportunity for eligible infrastructure funding.
2023	Concourse B Enclosure Replacement - Construction	Yes	CA/TE/IM	48			(OPP)	(OPP)		6,800,000	6,800,000	Building envelope replacement and improvements. Opportunity for eligible infrastructure funding.
2023	Baggage Claim Expansion	Yes	CA/TE/EX	48			(OPP)	(OPP)		1,875,000	1,875,000	Baggage claim expansion for capacity, in accordance with Master Plan recommendations. Opportunity for eligible infrastructure funding.
2023	Runway 8R/26L PCC Pavement Rehabilitation	Yes	RE/RW/IM	81			(OPP)	(OPP)		1,010,000	1,010,000	Rehabilitate Runway 8R/26L with pavement joint repairs, and isolated slab replacements. Opportunity for eligible infrastructure funding.
2023	Additional Terminal Entry Road	Yes	CA/AR/AC	39			(OPP)	(OPP)		1,685,000	1,685,000	Roadway and traffic flow improvements including redundant north entry road. Opportunity for terminal infrastructure funding.
2023	Perimeter Gate Replacement	Yes	SA/EQ/SE	87			(OPP)	(OPP)		375,000	375,000	Year 3 of perimeter gate replacement project based on TSA engagement. Opportunity for eligible infrastructure funding.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M
2024	Runway 8R/26L Approach End Twy Improvements (8R End)	Yes	RC/TW/IM	76	5,100,000			14,482,200	1,087,900	1,087,900	21,758,000	Taxiways A7 and A8 plus hold pads to current geometry standards, includes wildlife habitat mitigation. Includes Taxilane P2 and wildlife habitat mitigation.
2024	Runway 8R/26L Approach End Twy Improvements (26L End)	Yes	SA/TW/IM	80				11,277,000	626,500	626,500	12,530,000	Taxiways D1 and D2 plus hold pads to current geometry standards, includes wildlife habitat mitigation. These taxiways are identified as future A1 and A2 on ALP.
2024	Checked Baggage Inspection System - Const., Year 2	N/A	CA/TE/IM	48			600,000	(OPP)		900,000	1,500,000	Assumes 40% allocable for TSA OTA. Opportunity for terminal infrastructure funding.
2024	Federal Inspection Station, Phase 2 - Year 2	Yes	ST/BD/CO	48			(OPP)	(OPP)	15,000,000		15,000,000	Construction of a new FIS per CBP standards. Opportunity for eligible infrastructure funding.
2024	East Perimeter Road Reconstruction	Yes	OT/GT/SV	29			(OPP)	(OPP)		1,500,000	1,500,000	Continuation of perimeter/ARFF road improvements. Opportunity for eligible infrastructure funding.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M
2025	Taxiway D Rehabilitation (Twy R to F)	Yes	RE/TW/IM	76	1,215,000				67,500	67,500	1,350,000	Reconstruction of the center portion of Twy D (PCI=65)
2025	Taxiway Z1 Rehabilitation	Yes	RE/TW/IM	76	765,000				42,500	42,500	850,000	Reconstruction of Z1 (PCI=40)
2025	Airfield Electrical Improvements - 8L/26R	Yes	RE/RW/LI	81	1,195,000				50,050	50,050	1,001,000	Replacement of runway 8L/26R homerun and fixtures due to decreasing resistance on circuits. Including new Runway Guard Lights.
2025	GA Apron Rehabilitation	Yes	RE/AP/IM	69	1,925,000			459,100	132,450	132,450	2,649,000	Rehabilitate the existing GA apron with new Asphalt Concrete Pavement.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M
2026	Taxiway T Construction	Yes	CA/TW/CO	77	5,100,000			19,740,000	1,380,000	1,380,000	27,600,000	Construction of new Twy T from the 26L threshold to B3, includes wildlife habitat mitigation.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M
2027	Runway 17/35 Approach End Twy Improvements (17 End)	Yes	CA/TW/IM	75	5,100,000			1,898,400	388,800	388,800	7,776,000	Taxiways B2 and E2 plus hold pads to current geometry standards, includes wildlife habitat mitigation.
2027	Runway 17/35 Approach End Twy Improvements (35 End)	Yes	CA/TW/IM	75	0			4,611,600	256,200	256,200	5,124,000	Taxiways B6 plus hold pads to current geometry standards, includes wildlife habitat mitigation.
	Carryover entitlement funds				0							Assume Primary Entilement Approx. $4.9 M, Cargo Entitlement Approx. $0.2 M

(OPP): Demonstrated need and opportunity for additional federal and state funding support as funding programs, such as the Bipartisian Infrastrure Law.
Note 1: 2021 federal and state grant projects included for reference. 2027 planned projects with federal funding included for planning purposes.
Note 2: CFC funded projects assumed at 100% local and not included for clarity. Information on these and other locally funded projects availbe upon request. The 2022-2027 GRR Capital Imprvement Program approved by the airport Board 11/17/21 = $600.4 M.
*Proposed airport development must be shown on current FAA-approved ALP prior to funding project.
**In accordance with FAA Order 5100.39A, Appendix 6

CITY OF KENTWOOD, MICHIGAN
RESOLUTION _16 - 24

A RESOLUTION TO ADOPT THE SCHEDULE OF CAPITAL IMPROVEMENTS:
JULY 1, 2024 - JUNE 30, 2030

WHEREAS, Section 7.9 of the Charter of the City of Kentwood requires that the Mayor shall submit to the City Commission a schedule showing proposed capital improvement expenditures for the next six years, and

WHEREAS, the schedule shall separately identify proposed capital acquisitions and expenditures with estimates of cost and proposed methods of financing, as accurate as may be made without detailed plans and specifications, and

WHEREAS, the Mayor shall prepare the schedule based on consultations with, and recommendations from, the Planning Commission, and others as directed by the Commission, and

WHEREAS, the Planning Commission, at its meeting of March 12, 2024, recommended the Structures and Improvements Plan for adoption by the City Commission,

NOW THEREFORE BE IT RESOLVED, that the Schedule of Capital Improvements: July 1, 2024 - June 30, 2030, which incorporates the Structures and Improvements Plan and the Mayor-recommended Capital Expenditures Plan, is hereby adopted as an advisory document without obligating the City to carry out the programs or improvements listed, nor obligating the City to include any items in future budgets or to appropriate funds.

The foregoing Resolution was offered by Commissioner Coughlin, supported by Commissioner Moore; the vote was as follows:

YEAS: Commissioners Artz, Coughlin, Groce, Moore, Morgan, Tyson, and Mayor Kepley

NAYS: None

ABSENT: None

RESOLUTION 16-24 DECLARED ADOPTED.

Dan Kasunic
City Clerk

I hereby certify the foregoing to be a true copy of a resolution adopted at a regular meeting of the Kentwood City Commission held on May 21, 2024.

Dan Kasunic
City Clerk

City of Kentwood, Michigan

Schedule of Capital Improvements: 2024-2030

As Recommended by

Mayor Stephen C.N. Kepley

INTRODUCTION

The Schedule of Capital Improvements (SCI) is a capital planning document developed pursuant to Michigan Law, and to the City of Kentwood Charter which states that the Mayor must submit to the City Commission "…a schedule showing proposed capital improvement expenditures for the next six fiscal years." The Charter further states that the schedule of capital improvements shall be based on consultations with and recommendations from the Planning Commission and others as directed by the Commission. The schedule must also identify the proposed capital expenditures with estimates of cost and proposed methods of financing.

The Schedule of Capital Improvements guides the preparation of the city's annual capital budgets. Each proposed project will be carefully reviewed for need and availability of funding before it is brought forward for appropriation of the needed funds. A discussion of the sources of funding for the capital improvements is provided at the end of this document.

Some projects listed in the SCI may be active projects in the current year and may even be completed before the end of current fiscal year, but they are listed here in case they continue into the new fiscal year.

Under the Mayor's direction, the Schedule of Capital Improvements document is created through the concerted and thoughtful efforts of departments, the Parks and Recreation Commission, and the Planning Commission. The City Commission has final review and approval authority. A detailed flow chart of the process is contained in the appendix.

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City of Kentwood, Michigan

Structures & Improvements Plan: 2024-2030

As Recommended by the
City of Kentwood Planning Commission
March 12, 2024

PLANNING COMMISSION OF THE
CITY OF KENTWOOD
RESOLUTION 1-24

A RESOLUTION TO ADOPT THE STRUCTURES AND IMPROVEMENTS PLAN JULY 1, 2024 – JUNE 30, 2030

WHEREAS, the Planning Commission was established with the membership, powers and duties prescribed in Act 207 of the Public Acts of the State of Michigan for 1921, as amended; and

WHEREAS, the Planning Commission, for the purpose of furthering the desirable future development of Kentwood under the adopted Master Plan, shall annually prepare a program for the ensuing six years, which program shall show those public structures and improvements in the general order of their priority, which in the Commission's judgement will be needed or desirable and can be undertaken within the six year period;

NOW, THEREFORE, BE IT RESOLVED BY THE PLANNING COMMISSION OF THE CITY OF KENTWOOD, that the Structures and Improvements Plan: July 1, 2024, - June 30, 2030, is hereby adopted.

The foregoing resolution was offered by Commissioner , supported by Commissioner , the vote being as follows:

YEAS: Dan Holtrop, Sandra Jones, Ed Kape, Alex Porter, Ray Poyner, Doug VanderMeer and Sarah Weir
NAYS:None
ABSENT: Bill Benoit, Darius Quinn
ABSTAIN: None

Resolution Adopted.

KENTWOOD PLANNING COMMISSION

Sandra Jones

Sandra Jones
Planning Commission Chair

The foregoing is a true and complete resolution adopted by the Planning Commission of the City of Kentwood, Kent County, Michigan, at a regular meeting held, March 12, 2024.

Sandra Jones

Sandra Jones
Planning Commission Chair

Structures and Improvements Plan: 2024 – 2030
Buildings and Site Improvements

DESCRIPTION

Building and Site Improvements involve the acquisition, expansion, and construction of city-owned buildings and property.

PROJECT FUNDING

Building and site improvements are generally funded by the Property and Building Fund (**Exhibit A**). This fund is an accumulation of money designated for specific future capital expenditures by the City Commission. Funds for these purposes may be transferred from the City's General Fund each year. Other financing sources such as Community Development Block Grants, Police and Fire Millage Fund, Library Millage Fund, bonding, and state and federal grants may also be used.

SCHEDULED PROJECTS

1. Justice Center - LVT (Luxury Vinyl Tile) Flooring – Phase 2

Due to life expectancy, use, and normal wear, the LVT flooring at the Justice Center began replacement in 2022. Phase 2 will replace an additional approximately 14,500 square feet of flooring. Flooring replacement will be with a more robust and lower maintenance material than VCT (Vinyl Composite Tile).

Project Cost: $95,000 Timing: 2024-2025

2. Justice Center – Battery Uninterrupted Power Supply (UPS) Replacement

Critical circuits at the Justice Center are served by two electrical back-up systems, a generator and battery back-up. The battery back-up system is a critical piece of equipment which bridges the switching period between distribution power and emergency back-up power. This system is failing and requires replacement.

Project Cost: $35,000 Timing: 2024-2025

3. Justice Center – Lieutenants Office/Conference Room Remodel

This is funded by the new police/fire millage. With the addition of lieutenants, the police department will need more office space for employees to work. Therefore, the current patrol conference room will be converted into an office for the traffic unit, and the current traffic unit office will become the new office for lieutenants. Besides desks, cubicles, etc., there is a need to put a wall in the new office for privacy.

Project Cost: $18,500 Timing: 2024-2025

4. Justice Center – Court Clerk Office Reconfiguration

The court will be implementing a new document e-file system that will eliminate the need for storage of hard-copy files on site. The city will seek assistance from a consultant for office space design with an emphasis on maximizing workspace. The result of the redesign in FY22/23 will be assessed and implemented as needed.

Project Cost: $75,000 Timing: 2024-2025

5. Justice Center – Gate and Operator Replacement – Phase 1

Due to life expectancy, use, and normal wear, the slide gate and operator at the Justice Center will be due for replacement. An evaluation of the two gates and operators will take place prior to replacement to determine the appropriate timeframe.

Project Cost: $50,000 Timing: 2024-2025

6. Justice Center – Gate and Operator Replacement – Phase 2

Due to life expectancy, use, and normal wear, the slide gate and operator at the Justice Center will be due for replacement. An evaluation of the two gates and operators will take place prior to replacement to determine the appropriate timeframe.

Project Cost: $50,000 Timing: 2025-2026

7. Justice Center – Police Stairwell Tread Flooring Replacement

Due to life expectancy, use, and normal wear, the stairwell flooring at the Justice Center will be due for replacement. An evaluation of the flooring will take place prior to replacement to determine the appropriate timeframe.

Project Cost: $40,000 Timing: 2025-2026

8. Justice Center - Elevator Pump and Controls

The elevator pump and controls are scheduled for replacement at 20 years. A full evaluation, including condition, use, life expectancy, updates to State or Federal regulation mandates, and manufacturers recommendation will determine actual replacement schedule.

Project Cost: $20,000 Timing: 2025-2026

9. Justice Center – Parking Lot replacement/expansion, Carport addition and roof replacement

The parking lot at the Justice Center, which includes the front customer lot, court employee lot, police employee lot, cruiser parking area and drives around the building are all due for replacement. This work will be coordinated with running conduit to the police carports and minor storm water collection repairs. The police department has experienced growth and requires additional parking spaces under the carports (addition of 20 parking spots total; 14 under north carports, 6 under east carports). This addition would also include space for the department's storage needs (~1,500 square feet). The police department staff parking lot currently has 70 spaces and two handicap spaces. The increase of police officers and support staff justify a parking lot expansion to include 20 additional parking spaces. The parking expansion also includes security fencing expansion.

Project Cost: $710,000 Timing: 2025-2026

10. Justice Center – Roof Replacement

The life expectancy and warranty of a membrane roof is 25 years. In 2025, the justice center roof will reach that lifespan. There have been multiple leaks experienced in the last five years that constitute replacement in FY26-27.

Project Cost: $150,000 Timing: 2026-2027

Structures and Improvements Plan: 2024 – 2030
Buildings and Site Improvements

11. Justice Center – Lightning Protection

The Justice Center has experienced two lightning strikes within the last five years. In an effort to protect the building from future strikes, lightning protection will be added during roof replacement as recommended by the contractor.

Project Cost:	$40,000	Timing:	2026-2027

12. Justice Center – Domestic Water Heater Replacement

The water heaters at the Justice Center serve the entire building including police, court, and locker room showers, and are critical to building operations. The water heaters were installed new in 2016 and are slated for replacement at 10 years. A condition assessment will be conducted at nine years (2025) to determine actual replacement schedule.

Project Cost:	$20,000	Timing:	2026-2027

13. Justice Center – Emergency Back-up Generator

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 21-year-old 810KW generator, is due for replacement in 2027. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost:	$350,000	Timing:	2029-2030

14. City Hall – Security Glass Addition to Customer Counters

City offices such as Treasurer, Assessing and Clerk offices have encountered interactions which warrant the addition of security glass to provide protection for City staff members. This security glass would provide protection for staff while allowing them to still provide the highest quality services to residents/customers.

Project Cost:	$150,000	Timing:	2024-2025

15. City Hall – Energy Recovery Unit (ERU) Refurbishment (Moved from FY24)

The energy recovery unit (ERU) at city hall needs complete overhaul due to age and disrepair. The large energy recovery parts of the unit have depleted, and replacement is needed.

Project Cost:	$140,000	Timing:	2024-2025

16. City Hall - Dehumidification System Replacement (Moved from FY24)

The life expectancy of City Hall's dehumidification system has reached its maximum age in 2023. Condition, use, manufacturer's recommendation, and the City's energy audit will help determine the appropriate timeframe for replacement.

Project Cost:	$95,000	Timing:	2024-2025

17. City Hall - Roof Replacement

The roof at City Hall has reached its full life expectancy in 2023. An evaluation was performed in 2023 and the roof is in good condition. Continued evaluation will take place to determine replacement schedule.

Project Cost:	$150,000	Timing:	2025-2026

18. City Hall - Carpet Replacement (main floor)

The carpet in the City Hall facility is aging and needs replacement. A full evaluation will take place prior to any work to determine the exact timing.

Project Cost: $82,500 Timing: 2026-2027

19. City Hall - Carpet Replacement (second floor and basement)

The carpet in the City Hall facility is aging and in need of replacement. A full evaluation will take place prior to any work to determine the exact timing.

Project Cost: $58,500 Timing: 2026-2027

20. City Hall - Cooling Tower Heat Exchanger (Moved from FY23)

The cooling tower heat exchanger for City Hall is due for replacement in 2024. A full evaluation was performed on the cooling tower in 2023 and it was found to be in acceptable condition. Another assessment will be performed in 3 years (2026).

Project Cost: $30,000 Timing: 2027-2028

21. City Hall – Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 250KW generator is 23 years old. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $175,000 Timing: 2027-2028

22. City Hall - Elevator Pump and Controls

The elevator pump and controls are scheduled for replacement in 20 years. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $20,000 Timing: 2028-2029

23. Library – Community Room Tables and Chairs

The community room at the library is a highly utilized space for residents. The tables and chairs in the community room utilized by renters have been heavily used and have seen wear because of it. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $100,000 Timing: 2024-2025

24. Library – Carpet – Design & Replacement

The overall use of the library has far exceeded expectations since its opening in 2010. The carpet of the library is becoming worn and has lasted until 2023. An evaluation will take place prior to replacement to determine an appropriate schedule.

Project Cost: $130,000 Timing: 2025-2026

25. Library – Emergency Back-up Generator

The emergency back-up generator powers the library's emergency lighting only during power outage events because the building is tied to the city hall generator. The 23-year-old 250KW generator is due for replacement in FY 2028. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost:	$100,000	Timing:	2027-2028

26. Library – Make-Up Air Unit (MAU)

The life expectancy of the library's make-up air unit is 15-20 years. The unit will reach this age in FY27-28. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost:	$25,000	Timing:	2027-2028

27. Library - Cooling Tower Heat Exchanger (120 ton)

The cooling tower heat exchanger for the library was due for replacement in 2024. A full evaluation was performed in 2023 and was found to be in good condition. Another assessment will be performed in 5 years (2028).

Project Cost:	$30,000	Timing:	2029-2030

28. Public Works – Building Addition and Remodel

In 2023, the Public Works department embarked on a space planning and master planning project. Along with a consultant, the public works team identified solutions to office, parking and storage shortfalls to accommodate a growing staff, growing fleet and increasing workload. This project will include an office addition of 3300 square feet, renovation of the existing offices, lunchroom and locker room spaces of 6700 square feet, and a parking garage expansion of 28,000 square feet. The office renovation will utilize existing square footage more efficiently and expand spaces such as the men's and women's locker rooms utilizing precious space for more important operations. The project is currently in design phase and is expected to be constructed in 2025. Financing for this project will come from multiple areas (including cash and bonds) from Water, Sewer, Streets and General Funds.

Project Cost:	$ 3,000,000	Timing:	2024-2025
Project Cost:	$10,000,000	Timing:	2025-2026

29. Public Works – Floor Coating Parking Garage (Moved from FY20)

The concrete surface in the main parking garage is deteriorating due to extreme conditions. It is expected that a protective coating will keep the floor from further deterioration and extend its useful life.

Project Cost:	$150,000	Timing:	2024-2025

30. Public Works – Floor Coating - Technician Truck Bay (moved from FY20)

The life expectancy of the truck repair bay floor would be lengthened by thorough cleaning and surface coating. Research is underway to determine the best approach to this project.

Project Cost:	$15,000	Timing:	2024-2025

31. Public Works - Material Storage Bins (moved from FY20)

The Department of Public Works operations require the use and storage of several materials, such as sand, gravel, and topsoil. Since the materials are not currently covered and exposed to the elements, they become oversaturated with moisture and are unusable. A suitable structure will allow the materials to stay dry, ultimately saving time and money. It is expected that the DPW Master Plan will help guide and support these upgrades.

Project Cost: $85,000 Timing: 2024-2025

32. Public Works - Heater for Fleet Technician Small Vehicle Garage

The heater in the Fleet Technician small vehicle garage at the DPW is due for replacement in 2024. A full evaluation, including manufacturer's recommendation will determine actual replacement schedule. Additionally, it is expected that the City's energy audit will support replacement and help determine the appropriate timeframe.

Project Cost: $10,000 Timing: 2025-2026

33. Public Works - AC Unit for the Fleet Technician Garage (15 Ton)

The AC Unit for the Fleet Technician garage at the DPW is due for replacement in 2024. A full evaluation, including manufacturer's recommendation will determine actual replacement schedule. Additionally, it is expected that the City's energy audit will support replacement and help determine the appropriate timeframe.

Project Cost: $15,000 Timing: 2025-2026

34. Public Works - Heater for Fleet Technician Large Truck Bay Garage

The heater for the Fleet Technician large truck bay garage at the DPW is due for replacement in 2024. A full evaluation, including manufacturer's recommendation will determine actual replacement schedule. Additionally, it is expected that the City's energy audit will support replacement and help determine the appropriate timeframe.

Project Cost: $25,000 Timing: 2025-2026

35. Public Works - Heater for Parking Garage

The heater for the parking garage at the DPW is due for replacement in 2024. A full evaluation, including manufacturer's recommendation will determine actual replacement schedule. Additionally, it is expected that the City's energy audit will support replacement and help determine the appropriate timeframe.

Project Cost: $40,000 Timing: 2025-2026

36. Public Works – Flooring - Carpet and VCT Replacement

The carpeted areas of the building are worn and ready for replacement. Field staff offices will change from carpet to VCT flooring.

Project Cost: $15,000 Timing: 2025-2026

37. Public Works - IT Room AC Unit Replacement (moved from FY20)

The mini-split AC Unit for the DPW IT room has reached the end of its useful life and has required additional maintenance justifying replacement. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $15,000 Timing: 2026-2027

38. Public Works – Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 19-year-old, 300KW generator is due for replacement in FY 2030. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $250,000 Timing: 2029-2030

39. Fire Station 1 - Exterior Masonry Sealant

The exterior block of the station needs occasional water seal and is due in 2024. This is scheduled to be done in conjunction with the other three fire stations.

Project Cost: $15,000 Timing: 2024-2025

40. Fire Station 1 – Painting of Apparatus Bay Barrel Roof Exterior

The original metal roof (1991) is due for painting to extend the life of the roof. Ice cleats that were originally epoxied on have fallen off subsequently removing the paint from below allowing the metal to rust. In addition, ice sliding off the roof has worn the paint on the rest of the roof decreasing the protective quality of the factory paint on the rest of the roof.

Project Cost: $35,000 Timing: 2024-2025

41. Fire Station 1 - Domestic Water Heater

The water heater at the station is aging and will be due for replacement in 2025. A full evaluation will take place in advance to determine and actual replacement date.

Project Cost: $15,000 Timing: 2025-2026

42. Fire Station 1 – Carpet Replacement (Admin and Suppression)

The carpet at the station is aging and in need of replacement. A full evaluation will take place prior to any work to determine the exact timing.

Project Cost: $45,000 Timing: 2026-2027

43. Fire Station 1 – Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 20-year-old, 160KW generator, is due for replacement in 2025. The unit is aging and is expected to reach the end of life in 25-26. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $200,000 Timing: 2026-2027

44. Fire Station 1 - Roof Replacement

The roof at FS1 will reach its full life expectancy in 2028 (life expectancy of 25-30 years). An estimated 8800 square feet of flat roof or 88 square will require replacement. An evaluation will take place in advance to determine the appropriate timeframe for replacement.

Project Cost: $96,000 Timing: 2028-2029

45. Fire Station 2 – Exterior Masonry Sealant

The exterior block of the station needs occasional water seal and is due in 2023. This is scheduled to be done in conjunction with the other fire stations.

Project Cost: $15,000 Timing: 2024-2025

46. Fire Station 2 – HVAC – Redesign and Construction (Moved from FY23)

The current HVAC system for the station is in need of a total overhaul. The station has experienced numerous service interruptions and issues with heating and cooling over the last several years. A firm will be utilized to redesign the system to ensure occupant comfort and long-term system integrity.

Project Cost: $250,000 Timing: 2024-2025

47. Fire Station 2 - Roof Replacement

The roof at FS2 will reach its full life expectancy in 2026 (life expectancy of 25-30 years). An estimated 6600 square feet of flat roof or 66 square will require replacement. An evaluation will take place in advance to determine the appropriate timeframe for replacement.

Project Cost: $73,000 Timing: 2025-2026

48. Fire Station 2 – Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 21-year-old, 275KW generator, is due for replacement in 2027. The unit is aging and is expected to reach the end of life in 26-27. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $200,000 Timing: 2027-2028

49. Fire Station 3 – Exterior Masonry Sealant

The exterior block of the station needs occasional water seal and is due in FY2024. This is scheduled to be done in conjunction with the other fire stations.

Project Cost: $15,000 Timing: 2024-2025

50. Fire Station 3 - Elevator Pump and Controls

The elevator pump and controls are scheduled for replacement at 20 years. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $20,000 Timing: 2025-2026

51. Fire Station 3 - Roof Replacement

The roof at FS3 will reach its full life expectancy in 2026 (life expectancy of 25-30 years). An estimated 9600 square feet of flat roof or 96 square will require replacement. An evaluation will take place in advance to determine the appropriate timeframe for replacement.

Project Cost: $105,000 Timing: 2025-2026

52. Fire Station 3 - Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 22-year-old, 150KW generator, is due for replacement in 2026. A full evaluation, including condition, use, life expectancy, and manufacturers recommendation will determine the actual replacement schedule.

Project Cost: $200,000 Timing: 2026-2027

53. Recreation Center – Emergency Back-up Generator Replacement

The emergency back-up generator supplies power to the building and critical circuits during power outage events. The 23-year-old, 100KW generator, is undersized and unable to run the entirety of the building during power outage events, replacement and upsizing have been moved earlier than full life expectancy.

Project Cost: $250,000 Timing: 2025-2026

54. Recreation Center – Window Replacement (Moved from FY24)

There are two areas at the Recreation Center where windows have not been replaced to complete a window replacement project for the entirety of the exterior. The windows are inefficient and aged requiring replacement.

Project Cost: $20,000 Timing: 2025-2026

55. Recreation Center – Security Glass and Card Reader Addition

Upon completion of the City's new Community Center, the usage and staffing of the existing Recreation Center may change. In preparation for potential changes, the addition of security glass at the front counter and a card reader addition for secured access at the employee office entrance for purposes of increased security for staff at the location, are being planned.

Project Cost: $55,000 Timing: 2025-2026

56. Recreation Center – Parking Lot Surface Replacement

The parking lot asphalt surfacing at the Recreation Center is aging and due for replacement. A full evaluation will take place in advance to determine an actual replacement date.

Project Cost: $300,000 Timing: 2026-2027

57. Recreation Center – Roof Replacement

The roof at the Recreation Center will reach its full life expectancy in 2023 (life expectancy of 25-30 years). An estimated 11,800 square feet of flat roof or 118 square will require replacement. An evaluation will take place in advance to determine the appropriate timeframe for replacement.

Project Cost: $125,000 Timing: 2027-2028

58. Pinehill Cemetery – Master Plan (Moved from FY22)

To properly facilitate future expansion, maintenance needs, and desires of the community, it is recommended that the City engage vendors with expertise in cemetery management to complete a Master Plan for Pinehill Cemetery.

Project Cost: $50,000 Timing: 2025-2026

59. Pinehill Cemetery - Security Upgrades (Moved from FY23)

The maintenance building and the office area at Pinehill Cemetery are currently monitored by a stand-alone camera system with on-site DVR. The system is not connected to the City's network. Staff recommends installing fiber-optic cable to the building and replacing the existing cameras. The fiber-optic will allow the cameras to be connected to the network. Additionally, the fiber-optic will also allow the phone and computer in the office area to connect with the City's network.

Project Cost: $47,500 Timing: 2026-2027

60. Pinehill Cemetery – Cantilever Roof for Material Storage

The existing material storage bins are uncovered, leaving materials such as sand and topsoil exposed to the elements. When wet or frozen the materials are unusable. A cantilever roof system would protect the needed materials from weather conditions. It is expected that the Cemetery Master Plan will help determine and support the need.

Project Cost: $50,000 Timing: 2026-2027

61. Pinehill Cemetery – Roof Replacement

The roof at the cemetery will reach its full life expectancy in 2027. An evaluation will take place in advance to determine the appropriate timeframe for replacement.

Project Cost: $55,000 Timing: 2027-2028

62. Pinehill Cemetery – Maintenance Building Addition (Moved from FY23)

The maintenance building at Pinehill Cemetery is used to house equipment and supplies. Additionally, the space is used as a workshop for cemetery and park maintenance projects. More interior space is desired to accommodate equipment and workshop needs, as well as housing materials. It is expected that the Cemetery Master Plan will help determine and support the need.

Project Cost: $140,000 Timing: 2029-2030

63. City Buildings - Building Repair & Improvements

Although in good repair now, City buildings will require large, expensive repairs, such as roofs and HVAC equipment, as they age. This project is intended to provide funding reserves to meet these "as needed" repairs when they arise.

Project Cost: $100,000 Timing: Annually

64. Miscellaneous & Contingency

Annually, an amount is budgeted to allow for unexpected or emergency projects.

Project Cost: $150,000 Timing: Annually

Unscheduled:

65. Public Works - Property Acquisition

The Department of Public Works desires to expand brush and yard waste collection to the City's residents. The existing DPW facility is not large enough to effectively offer a suitable collection service without the acquisition and development of additional property. The program has proven to be a success and a highly used service. Timing is unscheduled pending the DPW Master Plan and available property.

Project Cost: $250,000

Structures & Improvements Plan: 2024-2030
Parks and Recreation

DESCRIPTION

The Parks portion of the Structures and Improvements Plan (Exhibit B) primarily involves development of existing park lands and the purchase of equipment and facilities for existing parks as included in the Park and Recreation Master Plan.

SCHEDULED PROJECTS

1. Pinewood Park Shelter Replacement

The shelter at Pinewood Park is by far the most utilized shelter within the City's parks system. During 2023-2024, the project included the removal and replacement of the shelter, restoration of the concrete pad, picnic tables, grills with coal bins, trash cans, and the installation of a serving table with areas of accessibility. Additionally, for 2024-2025 the project will include security cameras and parking lot lighting installation to enhance the overall safety of the park. Funding for this project will be from the Parks and Recreation Millage Fund.

Project Cost: $50,000 Timing: 2024-2025

2. Bowen Station Restroom and Parking Lot Replacement

This project will include a new restroom building in which the main door would be visible to the parking lot. This is a critical security deficiency with the current facility. In addition, the parking lot at Bowen Station is in disrepair and needs to be removed and replaced. Funding for this project will be from the Community Development Block Grant ($300,000) and the Parks and Recreation Millage Funds ($100,000).

Project Cost: $400,000 Timing: 2024-2025

3. Portable Light Tower Generator (new)

The portable light tower generator is a mobile unit used for wide-area lighting to provide safe passage for residents during the City's many events and programs. This equipment is used at all evening events such as food truck festivals, 4th of July festivities, Yeti hunt, glow in the park, tree lighting ceremony, sports programing, and many others. Costly rentals of this equipment are currently necessary due to the city owning only one light tower. Funding for this project will be from the Parks and Recreation Millage Fund.

Project Cost: $10,000 Timing: 2024-2025

4. Paul Henry Trail Rehabilitation

The Paul Henry is a very popular trail that is heavily used year around. Over the years this trail has begun to deteriorate and needs to be repaired. It is recommended that the trail be crushed and shaped with existing asphalt, has addition of three inches of new asphalt, along with the side restoration which would include topsoil, fertilizer, and mulch. To protect against future tree root intrusion, BioBarrier will be installed along 12,000 feet of the trail where trees are prevalent. Funding for this project will be identified by an application to the Michigan Natural Resources Trust Fund Grant ($300,000) and the Parks and Recreation Millage Fund ($700,000).

Project Cost: $1,000,000 Timing: 2024-2025

5. Community Center

A new multi-generational community center that will be a premier indoor healthy wellness and recreation programming facility. Funding for this project will be identified from multiple sources including the Parks and Recreation Millage Fund, grants, partnerships, donations, interfund loans, issuance of bonds, and the Property and Building Fund.

Project Cost:	$10,600,000	Timing:	2024-2025
Project Cost:	$11,626,000	Timing:	2025-2026

6. Covenant Park

Covenant Park was generously donated in May of 2020. This beautiful park will feature multiple trails, sports fields, pickleball courts, an event lawn, lighting, and an event center to support future growth. Funding will be identified from multiple sources including the Parks and Recreation Millage Fund, grants, partnerships, donations, and the Property and Building Fund.

Project Cost:	$30,000	Timing:	2024-2025
Project Cost:	$4,000000	Timing:	2025-2026
Project Cost:	$2,900,000	Timing:	2026-2027
Project Cost:	$5,000,000	Timing:	2027-2028

7. City Campus

An outdoor gathering space that will be the site of future community events and farmers' market. The amenities will include a destination splashpad and playground, shelters, plaza, amphitheater, event lawn, additional parking, and other improvements. Funding will be identified from multiple sources including the Parks and Recreation Millage Fund, grants, partnerships, donations, and the Property and Building Fund.

Project Cost:	$200,000	Timing:	2027-2028
Project Cost:	$2,000,000	Timing:	2028-2029
Project Cost:	$1,500,000	Timing:	2029-2030

8. Miscellaneous & Contingency

It is recommended that funds be budgeted annually for trail and park enhancements, wayfinding signage, and unexpected and/or emergency needs which may arise.

Allowance:	$125,000	Timing:	Annually

UNSCHEDULED PROJECTS

Veterans Park Improvements (Phase IV)

As Veterans Park continues to attract numerous residents to this signature park, phase IV improvements will include parking lot expansion, replacement of the basketball and futsal courts, placement of an additional picnic shelter, and removal and replacement of the remaining concrete pathways. Funding for this project will be requested through the Community Development Block Grant application with the remainder from the Parks and Recreation Millage Fund.

Project Cost:	$750,000

Structures & Improvements Plan: 2024-2030
Parks and Recreation

Home Acres Skate Park & Digital Sign

Home Acres Park is an entry point into the City of Kentwood. Over the years, the skate park has deteriorated and is beyond repair. The proposed improvements include an accessible skate park, shade shelter, reconstructed walk connections to the parking lot, accessible picnic tables, Evergreen trees, LED lighting, and bleacher seating. The accessible skate park will include one side with high contrast paint/tape to mark the ramps edges, navigation lines, and routes between ramps and tactile strips to provide haptic feedback before ramps or dangerous areas. Funding for this project will be from the Michigan Spark Grant with a 50% match from the Parks and Recreation Millage.

Project Cost: $1,200,000

Lamberts Trail

This project involves the construction of approximately 3 miles of trail starting near the City Hall/Justice Center area and continuing east along the north side of the future Lamberts property, possibly connecting to a proposed trail at a planned housing development. Construction timing will be evaluated in light of available funding via the park millage and MDNR grant funds.

Project Cost: $600,000

Plaster Creek Trail (Stanaback Park to Shaffer)

This project is planned to connect Stanaback Park trail system and Kentwood's southern non-motorized trail system to the north. The trail is planned to go next to and after crossing several ravines down to Shaffer Avenue. This project is to be funded by park millage or by MNRTF funds.

Project cost: $1,126,000

Shaffer-Patterson I (Shaffer Ave. to East Paris Ave.)

This project is planned to link trails from Plaster Creek along Shaffer, 32nd Street to East Paris Avenue. It would be funded by park millage, CDBG, and/or by MNRTF funds. Act 51 funds may be used for some of the footage.

Project cost: $727,000

Shaffer-Patterson II (East Paris to Burton Street)

This project is planned to go from East Paris Avenue along the Saddleback sewer easement to the intersection of Burton Street and Patterson Avenue, linking the southern system to the non-motorized trail systems to the north. It would be funded by park millage, CDBG, and/or by MNRTF funds. Act 51 funds may be used for some of the footage.

Project cost: $1,130,000

Forest Hill Trail Connection via Forest Hill Bridge Widening

Now that Forest Hill roadway has been reconstructed, and a non-motorized trail (NMT) installed on the east side of the roadway, the widening of the existing Forest Hill Avenue Bridge for a trail connection is desirable. This would either be a stand-alone project or part of an MDOT project replacing the existing I-96 bridge. Possible funding would come from Safe Routes to School program, MDOT, and/or Act 51 funds.

Project Cost: $1,000,000 (Kentwood's share of a new wider MDOT bridge)

$3,500,000 (Stand-alone prefabricated pedestrian bridge)

Property Development

It is desirable to provide resources for the City to create new parks on existing city-owned park properties to meet emerging needs. Funding could be from State of Michigan Natural Resources Trust Fund grants and/or other funding sources.

Project Cost: $500,000

Park Acquisition

City to pursue land acquisition for the development of parks, subject to availability of funds and property. Underserved areas as identified in the Park Master Plan map will be given high priority. The Parks and Recreation Millage Fund and State grants may be considered to finance the project.

Project Costs: $500,000

DESCRIPTION

The Schedule of Capital Improvements includes the construction, rehabilitation, repair, and enhancement of the City's streets, sidewalks, and non-motorized trails. It does not include annual maintenance of road surfaces of specific streets by chip sealing, cape sealing, overlay and other similar practices.

PROJECT FUNDING

The streets, sidewalks, and non-motorized trails projects (**Exhibit C**) are generally funded through Act 51 funds, which are from gas taxes and vehicle registration fees and are returned to the City by the State based on the number of miles of road in the city and its population. These funds are generally used for street rehabilitation, patching, resurfacing, sweeping, paint striping, snow plowing, salting, traffic signals and street signs. Recognizing that non-motorized trails are a popular recreation feature, Parks Millage Funds may also be used to maintain existing trails and construct additional sections. The timing notations refer to fiscal years by the year of the end date (i.e., the fiscal year ending June 30, 2024 is noted as 2024).

Additional funds for streets, sidewalks, and trails may also be obtained from Federal and State transportation funding. Some non-motorized trails or sidewalks may also be funded by Community Development Block Grants (CDBG), Department of Natural Resources Trust Fund (DNRTF) Grants, Michigan Department of Transportation (MDOT), Transportation Alternative Program (TAP) Grants, Congestion Mitigation Air Quality (CMAQ) Grants and other funding sources.

Construction of projects will depend on obtaining the required funding and acquisition of property. Project cost does not include property acquisitions or required easements.

PROJECTS

1. Julivan and Ridgewood Reconstruction (44th St to Division Ave)

Reconstruct using Act 51 funds. Add concrete curb and gutter and sidewalk, replace watermain. Construction expected in 2024.

Project Cost: $1,105,078 Timing: FY24 & 25

2. 40th Street Rehabilitation (Soundtech Ct to Patterson Ave)

Crush, shape, and repave corridor. $265,200 in federal funding has been programmed with the balance from Act 51 funds. Construction expected in 2024.

Project Cost: $407,200 ($142,000 to Kentwood) Timing: FY24 & 25

3. East Paris Avenue Resurfacing (Burton St to 28th St)

Mill and resurface the street. $422,500 in federal funding has been programmed with the balance from Act 51 funds. Construction in 2024. Cost split with Grand Rapids due to shared ownership.

Project Cost: $650,000 ($113,750 to Kentwood) Timing: FY24 & 25

4. 36 Street & Patterson Avenue Intersection Improvements

The Kent County Road Commission is improving the intersection of 36th Street and Patterson. Part of this work will occur on 36th Street. It will include installation of full-depth concrete pavement.

Project Cost: $300,000 Timing: FY24 & 25

5. Miscellaneous Bridge Maintenance

Implement bridge maintenance projects based on the bi-annual bridge inspection report and recommendations.

Project Cost: $200,000 Timing: FY24 & 25

6. Signalized Intersection Upgrades

This project includes installation of cell modem, radio, and fiber optic communications equipment in existing traffic signals at 14 intersections in the City of Walker and 37 locations in the City of Kentwood. Improved communication allows for improved signal coordination, remote signal management, and reductions in incident-related notification. Shared project with the City of Walker. This project includes $160,000 in CMAQ funding with the balance from Act 51 Funds.

Project Cost: $45,000 (Kentwood Cost) Timing: FY24 & 25

7. Breton Crossing of the Paul Henry Trail

Construction of a road crossing for Breton Avenue over the Paul Henry Trail. This work would be completed in conjunction with development north of the Paul Henry Trail.

Project Cost: $425,000 Timing: FY25 & 26

8. 52nd Street and Breton Avenue Traffic Signal and Intersection Reconstruction

Remove diagonal span signal and replace it with box span signal. Also, construction of turn lanes and intersection improvements in conjunction with construction of Breton Avenue to the south.

Project Cost: $600,000 (Kentwood 75%, Developer 25%) Timing: FY25 & 26

9. 52nd Street Resurfacing (Bailey's Grove to East Paris)

Mill and resurface the street. $352,000 in federal funding has been programmed with the balance from Act 51 funds. Construction in 2025.

Project Cost: $504,000 ($152,000 to Kentwood) Timing: FY25 & 26

10. 52nd Street Resurfacing (Division Ave to Eastern Ave)

Mill and resurface the street. $490,000 in federal funding has been programmed with the balance from Act 51 funds. Construction in 2025.

Project Cost: $700,000 ($210,000 to Kentwood) Timing: FY25 & 26

11. 52nd Street Resurfacing (East Paris to M37)

Mill and resurface the street. $735,000 in federal funding has been programmed with the balance from Act 51 funds. Construction in 2025.

Project Cost: $1,050,000 ($315,000 to Kentwood) Timing: FY25 & 26

12. 44th Street White-Topping Repair

Repair/replacement of "white-topped" and other full depth concrete streets in Kentwood. Design engineering and construction to replace "white-topped" streets in Kentwood. Streets included in this work are 44th Street and Barden/East Paris.

Project Cost: $1,000,000 Timing: FY 25 & 26

13. Model Court Rehabilitation (West of M37)

Add curb and gutter and repave this short cul-de-sac using Act 51 funds. Construction in 2026.

Project Cost: $200,000 Timing: FY26 & 27

14. 36th Street Resurfacing (Shaffer to M37)

Mill and resurface 36th Street. $350,000 in federal funds has been programmed with the balance from Act 51 funds. Construction in 2026.

Project Cost: $500,000 ($150,000 to Kentwood) Timing: FY26 & 27

15. 36th Street Roundabout & Shaffer Ave Rehabilitation

Construct a roundabout at the intersection of 36th Street and Shaffer Avenue. Replace the Hot Mix Asphalt (HMA) pavement from 32nd Street to 44th Street. $660,386 in CMAQ funds have been programmed with the balance from Act 51 funds. Construction in 2026.

Project Cost: $3,050,000 ($2,389,614 to Kentwood) Timing: FY26 & 27

16. Forest Creek Drive Rehabilitation (East of East Paris Ave)

Crush, shape, and repave corridor using Act 51 funds. Add concrete curb and gutter and sidewalk. Construction expected in 2024.

Project Cost: $700,000 Timing: FY27 & 28

17. 48th Street Rehabilitation (Division to Eastern)

Mill and resurface 48th Street. This project should be considered for STP-U funding under the next TIP programming cycle (FY2027 to FY2029). Construction in 2027.

Project Cost: $931,200 Timing: FY27 & 28

18. 52nd Street Resurfacing (M37 to Patterson Ave)

Mill and resurface the street using Act 51 funds. This project should be considered for STP-U funding under the next TIP programming cycle (FY2027 to FY2029). Construction in 2027.

Project Cost: $432,000 Timing: FY27 & 28

19. Eastern Avenue Rehabilitation (52nd St to 60th St)

Replace the HMA pavement along corridor. This project should be considered for STP-U funding under the next TIP programming cycle (FY2027 to FY2029). Construction expected in 2027.

Project Cost: $1,800,000 Timing: FY27 & 28

20. Eastern Avenue Rehabilitation (48th St to 52nd St)

Replace the HMA pavement along corridor. This project should be considered for STP-U funding under the next TIP programming cycle (FY2027 to FY2029). Construction expected in 2027.

Project Cost: $900,000 Timing: FY27 & 28

21. Eastern Avenue Rehabilitation (44th St to 48th St)

Replace the HMA pavement along corridor. This project should be considered for STP-U funding under the next TIP programming cycle (FY2027 to FY2029). Construction expected in 2027.

Project Cost: $900,000 Timing: FY27 & 28

22. Radcliff Avenue (28th Street to South End)

Crush, shape and repave the HMA pavement using Act 51 funds. Construction expected in 2028.

Project Cost: $350,000 Timing: FY28 & 29

23. East Paris Avenue Resurfacing (Burton to North City Limits)

Mill and resurface the street. $980,000 in federal funding has been programmed with the balance from Act 51 funds. Construction in 2024.

Project Cost: $1,400,000 ($420,000 to Kentwood) Timing: FY28 & 29

24. Intersection Crossing of Division Avenue at the Kelloggsville Middle School

High visibility crosswalk markings, pedestrian refuge island, advanced pedestrian crossing signs, with either Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons, optional curb extensions and/or yield/stop bars. Traffic analysis in 2023 confirmed that the pedestrian counts met warrants to qualify for MDOT Traffic Safety Program consideration. The City of Wyoming appears to be willing to jointly pursue a safety program application.

Project Cost: $ 90,000 ($45,000 Kentwood) Timing: FY 2025

25. Intersection Crossing of Forest Hill Avenue at Hall Street/Orchard Creek Drive

High visibility crosswalk markings, pedestrian refuge island, advanced pedestrian crossing signs, with either Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons, optional curb extension and/or yield/stop bars. Overall project cost is $140,000.

Phase I Installation of Refuge Island coordinated with Safe Routes to School Grant

Project Cost: $20,000 ($0 Kentwood) Timing: FY 2025

Phase II Installation of Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons

Project Cost: $120,000 Timing: FY 2026

26. Mid-Block Crossing of 44th Street at Walnut Hills Drive

Reconstruct with high visibility crosswalk markings, advanced intersection signing, pedestrian refuge island and **H**igh intensity **A**ctivated cross **W**alK (HAWK) Pedestrian Hybrid Beacons. Funds to be sought from MDOT Traffic Safety Program. Construction in 2026.

Project Cost: $ 250,000 Timing: FY 2026

27. Mid-Block Crossing of 48th Street at Marlette Street

High visibility crosswalk markings, pedestrian refuge island, advanced pedestrian crossing signs, with either Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons, optional curb extensions, and/or yield/stop bars. (To be constructed in conjunction with 48th Street Rehabilitation project)

Overall Project Cost: $ 140,000

Phase I Installation of Refuge Island coordinated with 48th St Rehab

Project Cost: $20,000 Timing: FY 2027

Phase II Installation of Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons

Project Cost: up to $120,000 Timing: FY 2028

28. Annual Street Resurfacing Program

It is recommended that funds be budgeted annually for the street resurfacing program.

Project Cost: $1,300,000 – 1,400,000 Timing: Annually

29. Annual Sidewalk Construction Program

Staff has identified several areas where sidewalks do not exist in the vicinity of schools as shown in the table below. This annual program will prioritize and begin to construct sidewalks in these areas.

School	Street	Segment
East Kelloggsville Elem	Madison Avenue	44th Street to Montebello
SE Kelloggsville Elem	54th Street	100' west of Mick to 140' east of Kelekent
	Mick Ave	56th Street to Tampa
	Claudia Ave	56th Street to Tampa
	Pinebrook Ave	56th Street to terminus
	Kelekent Ave	56th Street to terminus
	Andover Street	Primrose to 140' east of Heyboer
	Heyboer Ave	Andover to 52nd Street
	Madison Avenue	Andover to 52nd Street
	Primrose Ave	Andover to 52nd Street
	Tampa St	Mick to Claudia
Brookwood Elem	Newcastle Dr	52nd to 340' south
	Newcastle Dr	940' south of 52nd to 1430' south of 52nd
	Brookmark St	Kalamazoo to 140' west of Cheryl
	54th Street	Newcastle to Kimball
	Kimball Ave	52nd St to 54th St
	Katrina St	300' east of Christie to Brookmark
	Crestmoor Dr	60th St to Glenmoor Dr
	Glenmoor Dr	Pinetree to Stanford
	Juanita Dr	Gentian to Jeffrey
Bowen Elem	Meadowlane Dr	1538 Meadowlane, corner lot frontage
Meadowbrook Elem	Cloverleaf Ave	Forest Hill to Woodside Oaks (pvt.)

Project Cost: $100,000 Timing: Annually

30. Annual Sidewalk Fill-In Program

Staff has identified many small missing sections of sidewalk that serve to interrupt pedestrians using the City's pedestrian network. This annual program will begin "fill-in" these areas to improve connectivity. CDBG funds will be targeted when the sidewalks are within eligible areas.

Project Cost: $100,000 Timing: Annually

UNSCHEDULED PROJECTS

The following projects are planned, but the timing of each is unknown or uncertain.

Intersection Reconstructions

Certain intersections are planned for concrete pavement to eliminate rutting to reduce accidents.

Project Cost: Assume $250,000 for each intersection.

Engleside Drive

Install storm sewer, curb, sidewalk, and HMA pavement on the last gravel road in the City. By policy, a portion of the cost would be assessed to the benefiting property owners.

Project Cost: $615,000

East Paris Avenue (Broadmoor to 40th Street)

Crush, shape, repave, and add concrete curbs.

Project Cost: $450,000

Brookmark St (Bonnie Ave to Kalamazoo Ave)

Rehabilitate.

Project Cost: $700,000

Kalamazoo Avenue Enhancement (44th Street to 60th Street)

This project would install fixed street lighting in the median along with landscape beautification. The underground irrigation system was installed during the road reconstruction.

Project Cost: $435,000

44th Street Phase IV Enhancement (Division to Eastern)

This project would install an irrigation system along with vegetative beautification. This is now the only stretch of 44th Street in Kentwood without irrigation. CDBG eligible area.

Project Cost: $200,000

Intersection Crossing of 29th Street and East Paris Avenue

High visibility crosswalk markings

Project Cost: $ 10,800

Intersection Crossing of 52nd Street and Stauffer

High visibility crosswalk markings to go with the previously planned signal replacement and street reconstruction.

Project Cost: $ 10,000

Mid-Block Crossing of Breton Avenue at the Stanaback Park Trail

Modify existing pedestrian refuge island, high visibility crosswalk markings, advanced intersection signing, and Rectangular Rapid flashing beacons. Funds to be sought from MDOT Traffic Safety Program. Construction in 2024. Partner with Grand Rapids.

Project Cost: $ 70,000

Intersection Crossing at Division Avenue and 43rd Street

High visibility crosswalk markings, pedestrian refuge island, advanced pedestrian crossing signs, with either Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons, optional curb extensions and/or yield/stop bars. Traffic analysis in 2023 revealed that warrants were not met to qualify for funding. City of Wyoming has expressed interest in coordinating/sharing an alternate location in the corridor.

Project Cost: $ 70,000

Intersection Crossing of 52nd Street at Primrose

High visibility crosswalk markings with Rectangular Rapid flashing beacons, optional curb extensions, and/or yield/stop bars.

Project Cost: $ 70,000

Intersection Crossing of Eastern Avenue at Springwood Drive

High visibility crosswalk markings, pedestrian refuge island, advanced pedestrian crossing signs, with Rectangular Rapid flashing beacons, optional curb extensions and/or yield/stop bars.

Project Cost: $ 70,000

Intersection Crossing of 48th Street at Burgis Avenue

High visibility crosswalk markings with Rectangular Rapid flashing beacons, optional curb extension, and/or yield/stop bars.

Project Cost: $ 70,000

Mid-Block Crossing of Kalamazoo Avenue at the East-West Trail

High visibility crosswalk markings, advanced pedestrian crossing signs with either Rectangular Rapid flashing beacons or **H**igh intensity **A**ctivated cross **W**alK (HAWK) Hybrid Pedestrian Beacons.

Project Cost: $ 70,000

DESCRIPTION

These projects represent planned repairs and improvements to drains and stormwater management systems.

FUNDING

Drain projects are funded from the Drain Fund (**Exhibit D**). Levy of this millage was discontinued in 1996 and all remaining fund balance has been exhausted. Therefore, Act 51 Street Funds and General Fund will be used for improvement, maintenance, and repair of drains.

PROJECTS

1. Detention Pond Cleanouts and Other Drain Work

Sediment collects in City maintained detention ponds over time and overgrowth can also take over the ponds due to lack of maintenance. Drains erode slopes and threaten to undermine structures within and near the drain(s). This is an item included annually to keep the City in compliance with approved detention volumes and flood control requirements.

Project Cost: $200,000 Timing: Annually

UNSCHEDULED PROJECTS

Bowen Pond Construction

This project will improve water quality and reduce erosive velocities downstream of the pond improvement. The pond is intended to improve the City's #1 stormwater deficiency listed in a professional independent analysis. The City has worked with Kentwood schools to acquire easement rights to the property necessary to achieve the pond construction. Staff continues to look for possible funding sources other than the drain fund to achieve the project.

Project Cost: $250,000

DESCRIPTION

These projects represent planned repairs and improvements to the City's drinking water system in the Wyoming/Kentwood district (generally west of Breton Avenue).

FUNDING

Unless otherwise stated, projects will be funded from the fund balance in the Water (enterprise) Fund (**Exhibit D**) and will be reimbursed through user fee revenues for water service.

1. Julivan and Ridgewood St Reconstruction (44th Street to Division Avenue)

Replacement of approximately 3,600 feet of 67± year old cast iron water main associated with street reconstruction. Construction in 2024.

Project Cost: $730,000 – water main only Timing: FY2024, 2025

2. Complete Distribution System Materials Inventory (CDSMI)

The Michigan Department of Environment, Great Lakes, and Energy (EGLE) is requiring water systems in Michigan to confirm the water line service material which provide water to homes. EGLE has mandated that the Kentwood water system confirm pipeline material for 365 services in the water system. This must be completed using excavation methods and visual confirmation at a minimum of three points on a water service line (two points on either side of the water shut off point near the road, and one point inside of the property at the water meter). All water systems in the State of Michigan are required to perform this materials inventory. EGLE has mandated a completion date of October 16, 2024. The City intends to hire an engineering firm and subsequently a contractor to assist in the completion of this inventory.

Project Cost: $450,000 Timing: FY2024, 2025

3. Christie Avenue Water main Replacement (52nd Street to Gentian Drive)

DPW has experienced a high break history on this 2,600 foot stretch of main in recent years and has recommended replacement. Construction in 2030.

Project Cost: $520,000 Timing: FY2030, 2031

4. Blaine, Burgis, Bonnie, Poinsettia, Marshall, & Curwood Water main (South of 44th St)

DPW has experienced a high break history on several water mains in the neighborhood known as Mapleview or as Eastern Heights, located south of 44th Street and east of Eastern Avenue. 10,800 feet of cast iron mains up to 65 years old are recommended for replacement. Construction in 2028.

Project Cost: $2,200,000 Timing: FY2028, 2029

5. Gentian, Ramblewood, Jamestown Water main Replacement (Kalamazoo to Discovery)

Replacement of approximately 5,600 feet undersized water main as recommended by the City's water reliability study. Construction in 2030.

Project Cost: $1,300,000 Timing: FY2030, 2031

6. 48th Street Widening & Rehabilitation (Division Ave to Eastern Ave)

Replacement of approximately 1 mile of 55± year old cast iron water main associated with street reconstruction. Construction in 2027.

Project Cost: $1,000,000 – water main only Timing: FY2027, 2028

7. 500,000 Gallon Elevated Storage Tank – Dry and Wet Interior Tank Painting

The tank interior is coated with a special paint coating to prevent corrosion. Painting was last performed in 2009. Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $150,000 Timing: FY2029, 2030

8. 1,000,000 Gallon Elevated Storage Tank – Dry and Wet Interior Tank Painting

The tank interior is coated with a special paint coating to prevent corrosion. Painting was last performed in 1996 (wet interior, repainted), 1999 (dry interior, touch up) and 2014 (wet interior, touch up). Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $237,000 Timing: FY2029, 2030

9. 1,000,000 Gallon Elevated Storage Tank – Exterior Tank Painting

The tank exterior is coated with a special paint coating to prevent corrosion. Painting was last performed in 2014. Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $174,000 Timing: FY2030, 2031

10. 5,000,000 Gallon Ground Storage Tank – Dry Interior Tank Painting

The tank interior is coated with a special paint coating to prevent corrosion. Painting was last performed in 2011. Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $432,000 Timing: FY2026, 2027

11. 5,000,000 Gallon Ground Storage Tank – Wet Interior Tank Painting

The tank interior is coated with a special paint coating to prevent corrosion. Painting was last performed in 2003. Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $320,000 Timing: FY2028, 2029

12. 5,000,000 Gallon Ground Storage Tank – Exterior Tank Painting

The tank exterior is coated with a special paint coating to prevent corrosion. Painting was last performed in 2013. Paint coating inspection will take place in 2023 to assist in assessing project timing.

Project Cost: $192,000 Timing: FY2028, 2029

13. Potter Pumping Station – Flow Meter Replacements

Water which flows into and out of the potter pumping station is metered. The two magnetic meters which monitor this flow, were new in 2006 and have a 15-30 year life expectancy depending upon water quality and flow rates. An assessment will be performed closer to expected life expectancy to determine replacement.

Project Cost: $76,000 Timing: FY2026, 2027

14. Potter Pumping Station – Oil Capital Valve (OCV) Replacements

Valves used to control water flow which fills the ground storage tank and helps control system pressure were new in 2006. These valves have a life expectancy of 15-20 years. An assessment will be performed closer to expected life expectancy to determine replacement.

Project Cost: $60,000 Timing: FY2026, 2027

15. Potter Pumping Station – Roof Replacement

The potter pumping station building was constructed in 2006. The existing asphalt roof is original to the building and is showing signs of wear, indicating need for replacement.

Project Cost: $45,000 Timing: FY2026, 2027

16. Potter Pumping Station – Parking Lot Resurfacing

Approximately 15,000 square feet of asphalt surfacing which surrounds the potter pumping station site will be due for replacement. An assessment will be performed closer to expected life expectancy to determine replacement.

Project Cost: $50,000 Timing: FY2025, 2026

17. Miscellaneous Water Infrastructure

To maintain the water distribution system, the DPW needs to regularly replace water meters, water main valves, and fire hydrants as they age and require replacement.

Project Cost: $115,000 – 140,000 Timing: Annually

DESCRIPTION

These projects represent planned repairs and improvements to the City's sanitary sewer system in the Wyoming/Kentwood district (generally west of Breton Avenue).

FUNDING

Unless otherwise stated, projects will be funded from the fund balance in the Sewer (enterprise) Fund (**Exhibit D**) and will be reimbursed through user fee revenues for sewer service.

1. Lining of Sewers in Breton, Kellogg Woods, 52nd St and Other Miscellaneous Sanitary Mains, and Miscellaneous Manhole Rehab

The sanitary sewer in Breton Avenue between 52nd and 44th, the sanitary main in 52nd Street between Division and Kellogg Woods, and other miscellaneous sewers must be lined to protect the integrity of outdated asbestos cement pipe. Other spot problem locations throughout the City will be included in the project. The SAW Grant (Stormwater, Asset Management, and Wastewater) has identified additional locations in need of lining. Funds for this project will come from the Sewer Fund. Construction in 2024.

Project Cost: $500,000 Timing: FY2024, 2025

2. Sanitary Sewer Main Lining and Manhole Rehabilitation

Replace existing 10-inch sanitary sewer including mains into parking areas between buildings. The sanitary sewer is in poor structural condition. The existing PVC truss pipe is cracked at the crown of the pipe for most of the north half of the Leisure South loop.

Project Cost $500,000 (Sanitary Only) Timing: FY2024, 2025

3. Julivan & Ridgewood Reconstruction

Replacement of approximately 2,700 feet of 50+ year old clay sanitary sewer main associated with street reconstruction. Construction in 2024.

Project Cost: $545,500 Timing: FY2024, 2025

4. Miscellaneous Sanitary Lateral Lining

Through the televising work routinely completed by DPW staff, the City becomes aware of sanitary laterals that are best repaired via lining rather than the conventional excavation and replacing method. Funds for these annual as needed projects will come from the sewer fund.

Project Cost: $95,000 - $120,000 Timing: Annually as needed

City of Kentwood, Michigan

Capital Expenditures Plan: 2024-2030

As Recommended by

Mayor Stephen C.N. Kepley

Capital Expenditures Plan: 2024-2030
City-Wide Furniture, Fixtures, Equipment, Technology and Programs

DESCRIPTION

These projects include purchase of city-wide furniture, fixtures, equipment, technology, and programs.

FUNDING

A proportionate share of the total annual costs will be allocated to the departments that benefit from the project. The computer and technology costs will be primarily borne by the Police Equipment, Fire Equipment, and Property and Building funds.

1. Furniture, Fixtures and Equipment (FF&E)

Replace old FF&E, as needed, throughout city facilities to meet the needs of current staffing, events, and activities. Financing will be from the Property and Building Fund.

Project Cost:	$50,000	Timing:	Annually

2. Postage Machine

The current SendPro 2000 postage machine which was purchased in 2017 will be decertified as non-compliant by the United States Postal Service (USPS) on December 31, 2027, due to the introduction of new technology called Intelligent Mail Indicia (IMI). Funding for this purchase will be from the Property and Building Fund.

Project Cost:	$10,000	Timing:	2026-2027

3. Wayfinding and Signage Program

There is a need to design unified signage throughout the City of Kentwood. The signage and visual cues will help residents, businesses and visitors find community facilities parks, trails, and other amenities. Financing will be from the Property and Building Fund.

Project Cost:	$50,000	Timing:	2024-2025

4. Disaster Recovery

This continued initiative will allow the City to improve the disaster recovery plan that was created through the Information Technology (IT) Management Services project. The goal is to ensure continued operations in the event of potential disasters which may affect the City's computers and networks. The City is looking at expanding its network to include direct connections to some park locations, starting with the proposed new location by Fire Station 1. Financing will be from Property and Building Fund (41%), Police Equipment Fund (35% and Fire Equipment Fund (24%).

Project Cost:	$100,000	Timing:	Annually

5. Security Consulting

A full security audit is needed on the City's technology environment, including all Windows server, computer, and IBM iSeries (AS/400) environments. This information will be used to determine whether there are any deficiencies and, depending on what they are, and the level of severity, the City will take immediate steps to address them or budget for fixes/improvements in the following year. Financing will be from the Property and Building Fund (41%), Police Equipment Fund (35% and Fire Equipment Fund (24%).

Project Cost: $50,000 Timing: Annually

6. Computer Workstation Purchases/Replacements

The City has significantly lengthened its replacement cycle for desktop and laptop computers, including those used in Police Department patrol vehicles. "Power users" receive new machines, while their old ones are rotated to users whose requirements can be met with less-powerful units. More and more employees are seeing the benefits of tablets, and Surface Pros. Monitors are also included here. Financing will be from the Property and Building $60,000, Police ($75,000), Fire ($15,000).

Project Cost: $150,000 Timing: Annually

7. Network Upgrades

This project provides for ongoing upgrades and improvements to the network, its components, and software to maintain system reliability and performance. It is anticipated that the implementation of the recently-completed IT study recommendations will require a higher level of investment than in the past. Projects may include increased system monitoring, and the implementation of Quality-of-Service standards. As the current switches age, replacement switches will be able to provide wireless access, expand the number of ports, and power cameras, phones, and other networked gear. In addition, security must be maintained at the highest level. Financing will be from the Property and Building Fund (41%), Police Equipment Fund (35% and Fire Equipment Fund (24%).

Project Cost: $100,000 Timing: Annually

8. Application Upgrades

This annual expenditure covers re-licensing of network-based software products such as Anti-Virus software, Internet monitoring software, and version upgrades to software such as Microsoft Office and other applications. Cloud-based systems will be evaluated as current licenses expire. Financing will be from the Property and Building Fund (41%), Police Equipment Fund (35% and Fire Equipment Fund (24%).

Project Cost: $125,000 Timing: Annually

Capital Expenditures Plan: 2024-2030
City-Wide Furniture, Fixtures, Equipment, Technology and Programs

9. Copier Replacement

Copiers have a useful life expectancy of five or more years. The City has generally switched to multi-function units which perform copying, scanning, printing, and faxing duties. These units are network-linked to provide full capability to all users, which maximizes user efficiency and reduces the need for individual desktop printers and fax machines. The replacement plan for 2024-2025 is Police (3), Fire (4), and Parks/City hall (3).

Project Cost:	$100,000	Timing:	Annually

10. Wireless Campus Upgrades

The IT department is exploring adding wireless capabilities to the public area between the library and the Justice Center. Financing will be from the Property and Building Fund.

Project Cost:	$75,000	Timing:	2024-2025

11. Miscellaneous & Contingency

It is recommended that funds be budgeted annually for unexpected and/or emergency needs which may arise. Financing will be from the Property and Building Fund (41%), Police Equipment Fund (35% and Fire Equipment Fund (24%).

Project Cost:	$50,000	Timing:	Annually

Capital; Expenditures Plan: 2024 – 2030
Department of Public Works Equipment Purchases

DESCRIPTION

To ensure the delivery of needed public works services, such as snow plowing and road maintenance, capital items must be purchased and maintained. Project descriptions below are provided for the more significant expenditures.

FUNDING

The Department of Public Works (DPW) Equipment Fund has been established to purchase capital items. As those items are used in providing services, the Department that receives the services is charged a fee, based upon modified State of Michigan "Schedule C" rates. These rental charges are accumulated in the DPW Equipment Fund, so that replacement needs can be funded. The departments that benefit from the use of Public Works equipment include the Parks and Recreation, Police, Fire, Water, Sewer, Streets, Drains, and Pine Hill cemetery. **Exhibit E** lists all the DPW Equipment Fund's expenditures.

PROJECTS

1. Vehicles (Trucks) – Replacements and New (some carry-over, some pre ordered*)

Vehicles and equipment must be periodically replaced to ensure reliability and function. In order to extend the useful life of vehicles as far as possible, a City-wide schedule of vehicle replacements has been developed based upon mileage, condition, and purpose. In the coming year, one plow/dump truck (2007 Model year) and two pick-up trucks (2012 Model years) are scheduled for replacement.

Project Cost:	$385,000	Timing:	2024-2025
Project Cost:	$120,000	Timing:	2025-2026
Project Cost:	$400,000	Timing:	2026-2027
Project Cost:	$800,000	Timing:	2027-2028
Project Cost:	$120,000	Timing:	2028-2029
Project Cost:	$437,000	Timing:	2029-2030

2. Tractor (orchard style) – Replacement of a 2008 model (moved from 2021)

The narrow body (orchard style) tractor is a multi-purpose piece of equipment used in every season. During the summer months it is used in conjunction with a 3-point batwing style mower for mowing large open areas. The 3-point rear hitch is also useful for pulling the brush-hog mower and pull behind rototiller. During the winter months, this tractor is equipped with different tires and wheels along with a front v-plow and is used for plowing City owned sidewalks. Replacement is based on current condition and parts availability.

Project Cost:	$65,000	Timing:	2027-2028

3. Leaf Vac (large and Small) – Replacement of 2008 models (moved from 2023-2024)

The City's large leaf vacuum is primarily used in the fall for collecting leaves in large areas, such as the parks and Pinehill Cemetery. Occasionally this unit is also used during the spring and fall to collect excess grass clippings on the city campus. This unit was purchased in 2008 and is scheduled for replacement in 2024-25.

Project Cost:	$30,000	Timing:	2024-2025
Project Cost:	$6,000	Timing:	2026-2027

4. Turf Roller-Towable (new)

The turf roller will be utilized by the grounds division to smooth out multiple areas of the parks softball and soccer fields. It will also be a used throughout City building grounds. The major benefit of the roller is Safety, ensuring the sports fields are void of uneven surfaces that could cause a trip hazard.

Project Cost:	$5,000	Timing:	2024-2025

5. Lawn Equipment Trailer - Replacements

Equipment trailers must periodically be replaced to ensure reliability and function. Trailers are scheduled for replacement based upon condition and experience. The DPW has 12 trailers for various purposes, some of which are included in the replacement schedule.

Project Cost:	$12,500	Timing:	2024-2025
Project Cost:	$13,500	Timing:	2026-2027
Project Cost:	$14,000	Timing:	2027-2028

6. Equipment Trailer – 20 ton (replacement of 2006 model)

Equipment trailers must periodically be replaced to ensure reliability and function. Trailers are scheduled for replacement based upon condition and experience. This trailer is large enough to transport our biggest equipment such as the excavator and front-end loader, to and from the job sites. Replacement is needed due to age and scarcity of parts.

Project Cost:	$100,000	Timing:	2026-2027

7. Sewer Pump -Trailer Mounted, 4" Trash Pump – (Replacement of 2004 Model) {Moved from 2024-2025}

The trailer mounted 4" trash pump is used in emergency situations to pump storm water, or sanitary sewage. The pump is scheduled for replacement in 2024. A full evaluation will take place prior to purchase.

Project Cost:	$75,000	Timing:	2026-2027

8. Brush and tree Chipper (replacement of 2010 model)

The brush/tree chipper is used throughout the City for the removal and clean-up of city owned properties. This is a replacement for the current chipper which has been in use since 2010 and has required extensive maintenance.

Project Cost:	$75,000	Timing:	2024-2025

9. Lawn Mowers (large-ride on / ride behind style/push) – Replacements and New (moved from 2021)

The City utilizes zero-steer mowers in its fleet, used to maintain over 100 acres of City property, including Athletic Fields, Parks, and City Facilities. Annually, the oldest mower is replaced via a trade-in program. An addition to the fleet is budgeted in 2024-2025 for the potential development of Covenant Park (moved from 2021).

Project Cost:	$16,850	Timing:	2024-2025
Project Cost:	$16,400	Timing:	2025-2026
Project Cost:	$34,150	Timing:	2026-2027
Project Cost:	$17,000	Timing:	2027-2028
Project Cost:	$17,800	Timing:	2028-2029

Project Cost: $17,250 Timing: 2029-2030

10. Fertilizer Spreader Z Spray - Replacement of a 2017 model

The fertilizer spreader is used during the summer months to apply fertilizer, weed control, and grub control to over 100 acres of City property. We have just recently started using it on the City owned sidewalk for liquid anti-icing. Due to the nature of the environment, replacement is anticipated every 5 to 7 years.

Project Cost: $25,000 Timing: 2024-2025

11. Dirt Compactors – Replacement 2012 smaller model

Large dirt compactors are used to compact soils in excavations and road repairs. Soil compaction is critical to avoid settling of roadways after excavations or repairs. The existing compactors are scheduled for replacement in 2025-2026. A full evaluation will take place prior to replacement.

Project Cost: $3,000 Timing: 2025-2026

12. Backhoe - Replacement of 2009 model (Moved from 2020)

This is one of the most-used pieces of equipment at the DPW. The backhoe is used to excavate water main breaks, open and close grave sites, and plow snow in parking lots. The replacement cost includes trade-in of the existing unit. The replacement has been moved due to the current condition. We have done some major maintenance to prolong its useful life, affording us another year of use.

Project Cost: $175,000 Timing: 2025-2026

13. Skid Steer- (new)

The Skid Steer or track loader is a vital part of DPW operations. It is used throughout all divisions and has multiple uses due to the many attachments we have available to us (stump grinder rotary broom, forks, bucket, cold mill, etc.)

Project Cost: $100,000 Timing: 2028-2029

14. Mobile Equipment Accessories and Equipment

New and replacement mobile equipment accessories, small tools, and other miscellaneous items needed to support DPW operations in the repair and maintenance of the City's facilities and infrastructure.

Project Cost: Per schedule as shown Timing: Annually as required.

15. Hand Tools, Small Power Tools, and Miscellaneous Items

New and replacement hand tools, small power tools, and miscellaneous items are required to support DPW operations in repair and maintenance of the City's facilities and infrastructure.

Project Cost: Per schedule as shown Timing: Annually as required

16. Tire Changer - Replacement of 2012

The garage tire changer is used on a regular basis to change tires on rims prior to mounting on vehicles for every department. It is necessary to keep this type of equipment up to date. A full evaluation will take place prior to replacement.

Project Cost: $23,000 Timing: 2024-2025

17. Portable Truck Lift (6-piece wireless set) – Replacement (moved to 2028-2029 and new (set of 4)

The portable truck lifts are used by the Fleet Services Division for maintaining the City's larger vehicles, such as Fire Engines and Plow Trucks. It is necessary to keep this type of equipment up to date. A **new** set of 4 portable lifts will eliminate conflicts for vehicle repairs by not having enough lifts to work on two trucks at the same time. A full evaluation will take place prior to replacement. Cost includes trade-in.

Project Cost:	$90,000	Timing:	2024-2025
Project Cost:	$120,000	Timing:	2028-2029

18. Two-way Radios 800 MHz – Replacements as needed.

Two-way radios are used daily for communication between DPW crews and the main office, as well as to communicate with the City's Police and Fire Departments, and other local units of government.

Project Cost:	$4,000 - $5,000	Timing:	Annually

19. 80KW Portable Generator – Replacement of 2005 model (Moved from 2025)

The City's 80 KW portable generator is used as a back-up power source at the city's Jefferson Sewer Lift Station and the ½ Million Gallon Elevated Water Storage Tank/Pumping Station. It is also used as a power source during city sponsored events such as the concert series, 4th of July celebration, and food truck rallies.

Project Cost:	$75,000	Timing:	2028-2029

20. Sewer Main Line Camera – Replacement of 2020 Model

This camera televises approximately ten miles of the City's sanitary sewer system, annually. This work has detected several problem areas that staff were able to rectify prior to major back-ups occurring. It has also allowed staff to identify potential concerns with individual sewer laterals, resulting in an annual sewer lateral lining program. The camera has occasionally been used to televise portions of the City's storm sewer system as well. The purchase of a replacement unit is scheduled every 5 years, based on a full evaluation of the equipment and its performance history.

Project Cost:	$120,000	Timing:	2025-2026

21. Sewer Lateral Push Camera – Replacement of 2016 model

This manually operated push camera is used to televise sewer laterals to detect problems such as root intrusion, broken or collapsed pipes, foreign objects, as well as other defects. The camera is also occasionally used to televise portions of the City's storm sewer system. The purchase of a replacement unit is scheduled every 10 years, based on a full evaluation of the equipment and its performance history.

Project Cost:	$20,000	Timing:	2026-2027

22. Sewer Lateral Launch Camera- (new)

This camera is operated as a "piggyback" camera on the sewer mainline tractor camera. This camera will allow us to televise the laterals as they are located along the main sewer line at the same time as the main line is televised. This will increase productivity by reducing the need to individually televise the laterals from inside the resident homes.

Project Cost:	$115,000	Timing:	2025-2026

23. Hydraulic Front Plow - Replacement

The City's oldest large front plows date back to the late 1970's. The Plows are fixed in one direction and offer no maneuverability. The newer style hydraulic front plows offer full maneuverability like a pick-up plow. Additionally, all the City's large plow trucks are equipped to accommodate both the older fixed plows, and the new hydraulic plows.

Project Cost: $12,000 Timing: 2028-2029

24. Scissor-lift – Replacement of 2012 model (moved from 2022-2023)

The scissor-lift is used regularly to reach high places at all the City's facilities both inside and outside.

Project Cost: $45,000 Timing: 2029-2030

25. Scissor Lift-Manually operated (new-Community Center)

The scissor lift is operated manually and has the ability to reach the higher elevated lights, fixtures and ceiling in the library. This lift would be housed at the library eliminating the need to transport the large, motorized lift back and forth between buildings.

Project Cost: $40,000 Timing: 2025-2026

26. Scissor Lift-Manually operated (new-Library)

The scissor lift is manually operated with the ability to reach high places to do maintenance on lights, ceilings, and other elevated structures. This scissor lift with be stored at the new community center.

Project Cost: $40,000 Timing: 2024-2025

27. Walk Behind Asphalt/Concrete Saw-(Replacement of 2012 model).

The walk behind saw is used for cutting of concrete and asphalt. It provides a clean edge for the replacement of roadway, sidewalk and driveway approaches that need repair.

Project Cost: $28,000 Timing: 2025-2026

28. Easement Machine (new)

This easement machine will attach to a skid steer or Toolcat and provide access to the manholes within the easements that sometimes are not accessible by normal means and methods. This will provide for a faster and more efficient way of cleaning/jetting the mainline sewers.

Project Cost: $45,000 Timing: 2025-2026

29. Top Dresser for Sports Fields (new)

A top dresser would be used to improve the conditions of the soil to promote a healthier and better-looking field of play. A mixture of compost and soil is added to the surface after a deep tine aeriation to help strengthen the grass and can also help smooth out an uneven playing surface.

Project Cost: $40,000 Timing: 2024-2025

30. Deep Tine Aerator (new)

The deep tine aerator is used to increase aeration porosity for improved water infiltration and gas exchange, creating a better growing environment.

Project Cost: $30,000 Timing: 2024-2025

31. <u>Cold Plane Asphalt mill (new)</u>

DPW will use this mill for various areas of the streets and parking lots throughout the city. It can be used around catch basins and manholes where asphalt deterioration has occurred to create an area for pavement rehabilitation to provide proper drainage. We have also used this equipment on uneven surfaces where different road surfaces meet, such as asphalt and concrete joints.

Project Cost: $30,000 Timing: 2025-2026

32. <u>Miscellaneous & Contingency</u>

It is recommended that funds be budgeted annually for unexpected and/or emergency needs which may arise.

Project Cost: $75,000 Timing: Annually

Capital Expenditures Plan: 2024 - 2030
Fire Equipment Purchases

DESCRIPTION

The City annually purchases various capital equipment to support the Fire Department's fire prevention and suppression services.

FUNDING

Capital items for the Fire Department are funded from the City's Fire Equipment Fund (**Exhibit F**). This fund receives appropriations from the Police and Fire Millage Fund, grants, and other funding sources.

PROJECTS

1. Vehicle Replacements – Various

Fire Department vehicles must be periodically replaced to maintain reliability and function. A replacement schedule has been developed based on mileage, condition, and purpose. Regular preventative maintenance and evaluation of all vehicles and equipment is conducted to maximize their operating life.

Project Cost:	Per schedule as shown	Timing:	Annually as required.

2. Modem Replacement

The in-vehicle modems communicate information between in-vehicle laptop computers and dispatch. It is recommended by the Kentwood Information Technology department and Verizon, that the old modems (VRM750) be replaced to the IBR920. The 15-year-old modems are very slow and not 5G compliant.

Project Cost:	$18,700	Timing:	2024-2025

3. Training Center

There is a need for a fire training structure (after Police and Fire millage approval) for training. This container type engineered system would allow the Kentwood Fire Dept to conduct live fire training. In the past the department used the Grand Rapids Fire Dept (GRFD) Class A live fire training facility. This GRFD facility is no longer usable. The live fire training is also required by the Insurance Services Office (ISO). The department has hosted the south area firefighter academy for the last two years for additional training for the students. This facility will also allow for the training of the Kentwood Police personnel and the DPW staff. The training site will be located on the south side of the DPW property.

Project Cost:	$750,000	Timing:	2024-2025

4. Extrication Tool

The rescue tool for cutting, prying, ramming, spreading, once known as "jaws of life," is used to remove people from damaged vehicles. This purchase will replace 20-year-old tools for which parts are not available.

Project Cost:	$50,000	Timing:	2026-2027

5. Miscellaneous & Contingency

It is recommended that funds be budgeted annually for unexpected and/or emergency needs which may arise.

Project Cost:	$50,000	Timing:	Annually

Capital Expenditures Plan: 2024 - 2030
Police Equipment Purchases

DESCRIPTION

The City annually purchases various capital equipment to support the Police operations.

FUNDING

The Police Department's capital purchases (**Exhibit G**) are funded by appropriations from the City's Police & Fire Millage Fund, along with grants and other funding sources.

PROJECTS

1. Soft Body Armor Replacement

Every police officer is issued soft body armor (bullet proof vest) to wear while on duty. Per industry standards, that vest must be replaced every five years. Currently, the Department applies for grants through the Ballistic Vest Grant program which provides approximately a 50% cash match. The Department has developed an annual replacement cycle which provides for each vest to be replaced every five years using these grant funds. It is anticipated that this grant funding will continue yearly.

Project Cost:	$16,000	Timing:	FY 2024-2025
Project Cost:	$22,500	Timing:	FY 2025-2026
Project Cost:	$20,000	Timing:	FY 2026-2027
Project Cost:	$20,500	Timing:	FY 2027-2028
Project Cost:	$18,000	Timing:	FY 2028-2029
Project Cost:	$19,000	Timing:	FY 2029-2030

2. Justice Assistance Grant (JAG) Expenditure

The Edward Byrne Memorial Justice Assistance Grant (JAG) Program (42 U.S.C. 3751(a)) is the primary provider of federal criminal justice funding to state and local jurisdictions. The JAG Program provides states and local governments with critical funding necessary to support a range of programs including law enforcement, prosecution and court programs, prevention and education programs, corrections and community corrections, drug treatment and enforcement, crime victim and witness initiatives, and planning, evaluation, and technology improvement programs. The figure below represents the estimated annual JAG grant which will fund 100% of a selected project.

Project Cost:	$13,000	Timing:	FY2024-2029
Project Cost:	$15,000	Timing:	FY2029-2030

Capital Expenditures Plan: 2024 - 2030
Police Equipment Purchases

3. Taser Replacement

The Department has been using Tasers since 2007. These Tasers have proven to be safe and effective in controlling subjects and reducing officer injuries. The Department transitioned to the new Taser 7 in FY 2020-2021. The five-year contract will end in FY 2024-2025. The projected cost to continue with this program will be $63,000 per year.

Project Cost:	$45,100	Timing:	FY 2024-2025
Project Cost:	$63,000	Timing:	FY 2025-2026
Project Cost:	$63,000	Timing:	FY 2026-2027
Project Cost:	$63,000	Timing:	FY 2027-2028
Project Cost:	$63,000	Timing:	FY 2028-2029
Project Cost:	$63,000	Timing:	FY 2029-2030

4. Body Cameras/In-Car Cameras/Interview Room Cameras

The Department has a 5-year contract ($133,000/yr.) with Axon for body cameras, in-car cameras, and interview room cameras. More storage space was added, which caused the price increase in 2022-2023. This contract will expire at the end of FY 2024-2025. Projected cost to continue with this program will be $175,000- $234,000 per year.

Project Cost:	$175,000	Timing:	FY 2024-2025
Project Cost:	$234,000	Timing:	FY 2025-2026
Project Cost:	$234,000	Timing:	FY 2026-2027
Project Cost:	$234,000	Timing:	FY 2027-2028
Project Cost:	$234,000	Timing:	FY 2028-2029
Project Cost:	$234,000	Timing:	FY 2029-2030

5. 800 MHz Radio Replacement Project

The Department switched to the countywide 800 MHz radio system in 2021. Initial radio equipment was provided to agencies by the Kent County Dispatch Authority. Agencies will be responsible for the replacement of radio equipment after the warranty period or if personnel are added in the future. The current cost of a single portable radio is $6,500. The major increase for FY 25-26, will include 12 new portable radios and 3 new car radios based on the addition of more sworn staff beginning in that budget year.

Project Cost:	$25,000	Timing:	FY 2024-2025
Project Cost:	$100,000	Timing:	FY 2025-2026
Project Cost:	$50,000	Timing:	FY 2026-2027
Project Cost:	$50,000	Timing:	FY 2027-2028
Project Cost:	$50,000	Timing:	FY 2028-2029
Project Cost:	$50,000	Timing:	FY 2029-2030

Capital Expenditures Plan: 2024 - 2030
Police Equipment Purchases

6. Flock Safety Camera System

Flock Safety is a license plate reader camera system being used by over 50 agencies in the state including Holland Police Department (PD), Wyoming PD, Kent County Sheriff's Office (SO) and Kalamazoo PD and Kalamazoo SO. The camera system provides a back end investigative software that can help solve crimes virtually every time a vehicle is used to commit a crime. It also helps speed the process of finding missing persons, wanted vehicles and stolen vehicles. The estimated cost per camera per year is $3,500. The first year would include one-time implementation fees of $700 per camera. This increase would add 10 more cameras to our existing 10 cameras that we currently have in operation.

Project Cost:	$77,000	Timing:	FY 2024-2025
Project Cost:	$70,000	Timing:	FY 2025-2026
Project Cost:	$70,000	Timing:	FY 2026-2027
Project Cost:	$70,000	Timing:	FY 2027-2028
Project Cost:	$70,000	Timing:	FY 2028-2029
Project Cost:	$73,500	Timing:	FY 2029-2030

7. Tactical Drone Program (#2)

Our tactical drone program allows the Kentwood Police Department to deploy a single drone during specific situations to assist officers. This helps with officer safety on scenes, assists in following vehicles that flee from officers, assists on foot pursuits with suspects, and other critical type calls for service. The drone is transported in a vehicle and deployed by a trained officer when needed. This will include purchasing the equipment, training the pilots, software to run the drone and all the certifications needed to operate the drone. This would be the department's second drone and will allow the department to maintain drone coverage while the primary drone's battery is replaced or if one of the drones is out of service.

Project Cost:	$35,000	Timing:	FY 2024-2025

8. Patrol Armor Plate Replacement

The Department supplies vest carriers with armored plates in all the patrol vehicles and staff cars for sworn personnel. These plates are designed to stop rifle rounds, which the normal soft body armor that officers usually wear does not. The manufacturer's warranty on current plates is five years. The current rifle plates have been in service for over 10 years. These are used during critical incidents where a suspect is known or believed to have a rifle. This purchase will allow all sworn personnel to have their own rifle plates that fit their new external vest carriers.

Project Cost:	$78,000	Timing:	FY 2024-2025

Capital Expenditures Plan: 2024 - 2030
Police Equipment Purchases

9. K9 Program

The Department restarted their K9 program in FY 2023-2024. Out of the four largest departments in Kent County, Kentwood was the only department without a K9 program. The first K9 was purchased in May 2024 with the K9 and handler attending training together. This will be the department's second canine program. It will allow the department to deploy canine units on opposite shifts and provide better service for our community.

Project Cost: $14,000 Timing: FY 2024-2025

10. New Report Writing System/Records Management System

The Department is exploring different options for report writing and records management system. The department is looking for a system that is efficient and user friendly. The goal is to have a system that significantly reduces user error and decreases report writing time, allowing officers to respond to calls for service more quickly.

Project Cost: $500,000 Timing: FY 2025-2026

11. Duty Pistols for Additional Officers

As Officers are added to the police department, there is a need to purchase additional duty pistols for each officer to carry while on duty.

Project Cost: $13,000 Timing: FY 2025-2026

12. Command Post Replacement

Our current command post is 19 years old and is rusting and has other mechanical issues due to its age. It is the opinion of the Fleet Manager (Jamie King) that the current command post may need to be taken out of service by 2027, due to the inability to repair the vehicle. This vehicle is utilized frequently throughout the year at events for the city like 4th of July festivities, food truck rally and National Night Out. It is also used during critical incidents like barricades, high risk search warrants, hostage situations, and active shooters/mass casualty events.

Project Cost: $100,000 Timing: FY 2025-2026

13. Red Dot Optics for Pistols

Red dot optics are aiming devices which contain an illuminated red dot that provides a single aiming point for officers. Our current mechanical sights require an officer to line up two points to aim accurately. This increases time to address a potential deadly threat accurately and safely. The single red dot decreases that time to respond. The scope uses one battery which lasts for 50,000 hours. This budget request would also include new pistol holsters to accommodate the optic.

Project Cost: $90,000 Timing: FY 2026-2027

Capital Expenditures Plan: 2024 - 2030
Police Equipment Purchases

14. Patrol Rifles for Additional Vehicles

As the department adds more officers, it will have to add more patrol vehicles to its fleet, which in turn require new patrol rifles.

Project Cost: $57,000 Timing: FY 2026-2027

15. Less-Lethal Launchers for Additional Vehicles

As the department adds more officers, it will have to add more patrol vehicles to its fleet, which in turn will require all new equipment, including Less-Lethal Launchers.

Project Cost: $18,000 Timing: FY 2026-2027

16. Armored Rescue Vehicle

The department continues to see increases in violent crime, especially involving firearms. Having the ability to quickly deploy an Armored Rescue Vehicle to a scene where a suspect is armed with a firearm is extremely important for officer safety and the safety of the community. An Armored Rescue Vehicle may also reduce the need for officers to use deadly force to protect themselves. The department is exploring partnerships with other area police departments to share the cost of this vehicle.

Project Cost: $250,000 Timing: FY 2026-2027

17. Conference/Office Chair Replacement

The current office chairs in the offices, conference rooms and cubicles were purchased in 2002 and are starting to break and the hydraulics are failing. The new chairs will allow for more comfortable seating over longer periods of time for the officers and support staff that sit at desks during the day, as well as during meetings in various conference rooms. This would replace 70 assigned desk chairs, along with 40 more for conference room chairs. The majority of these chairs were serviced in 2018-2019.

Project Cost: $60,000 Timing: FY 2026-2027

18. Lieutenant Office/Conference Room Remodel

With the addition of Lieutenant positions, there is a need to create more office space within the police department. This would be accomplished by remodeling a conference room in the lower level of the police department that is used infrequently and making that into cubicle/office space.

Project Cost: $40,000 Timing: FY 2026-2027

19. Detective Bureau Cubicle Redesign

With the addition of detectives to the detective bureau, the design and number of cubicles will need to be changed and adjusted. The set up in the current location is not conducive to good communication and there is no room to add additional cubicles.

Project Cost: $20,000 Timing: FY 2027-2028

20. Tactical Drone #1 Replacement

This will replace the first police department drone that was purchased by the department in 2023. The average operational life span of the drone that was purchased is 5 years. We also anticipate seeing a significant increase in drone technology by this time.

Project Cost: $30,000 Timing: FY 2028-2029

21. Tactical Drone #2 Replacement

This will replace the second police department drone that was purchased by the department in 2024. The average operational life span of the drone that was purchased is 5 years. We also anticipate seeing a significant increase in drone technology by this time.

Project Cost: $35,000 Timing: FY 2029-2030

22. Patrol Armor Plate Replacement

This will replace the armor plates that were purchased in FY 24-25, for all sworn officers. The typical expiration date on these armor plates is 5 years. These are used during critical incidents where a suspect is known to, or might have, a rifle.

Project Cost: $80,000 Timing: FY 2029-2030

23. Vehicle Replacements – Various

Police vehicles must be periodically replaced to assure reliability and function. A City-wide schedule of replacements has been developed based upon mileage, condition, and purpose to extend the useful life of vehicles as far as possible. Regular preventative maintenance of all vehicles is conducted to maximize their operating life.

Project Cost: Per schedule as shown Timing: Annually

24. Miscellaneous & Contingency

It is recommended that funds be budgeted annually for unexpected and/or emergency needs which may arise.

Project Cost: $50,000 Timing: Annually

SOURCES OF FUNDING

1. **Drain Fund:** This fund is used to maintain the storm drain system in the City. A tax levy for this purpose was discontinued by the City Commission action in 1996. Currently, the General and Road funds are being used for the construction and maintenance of drains.

2. **General Obligation Bonds:** General obligation bonds may be used to provide funds for large, long-lasting projects such as buildings, recreation facilities and parks for which the full faith and credit of the City is pledged to pay the interest and principal to retire the debt. Voter approval is required, and generally unrestricted revenue sources can be used to pay the debt obligation. Limited Tax General Obligation Bonds, which are non-voted debt are backed by specified or constrained revenue sources and currently these are being repaid for:
   - The 2013 State of Michigan Drinking Water Revolving Fund ("DWRF") bonds for the replacement of water lines throughout the City with repayment made from revenues from the water fund until 2035.

3. **Major and Local Streets Funds:** These funds are provided by Act 51 funds from the state and are based on the number of miles of local and major streets and the population in the City. This is a return to the City of fuel and weight tax. The money is used by the City for the construction, rehabilitation, and maintenance of major and local streets. The maintenance includes street patching, resurfacing, sweeping, shoulder maintenance, weed cutting, snow plowing, salting, traffic signals, and sign maintenance. Funds are also used for capital improvements such as rebuilding streets.

4. **Municipal Street Fund:** This fund was supported by a 0.3 mill tax levy re-authorized by the voters in 1993 for 20 years for the improvement and maintenance of City streets and bridges. Generally, these funds have been used in conjunction with federal and state contributions for street improvements. In August 2006 Kentwood voters approved shifting the Street/Bridge Millage to support Police and Fire Department operations. The remaining funds in the Street/Bridge Millage Fund have been exhausted in 2023.

5. **Parks and Recreation Fund:** This fund is supported by a 1.0 mill tax levy re-authorized by the voters in 2022 for park site acquisitions and recreation building improvements; the resumption of this tax levy will begin July 2023 (previously, this fund was supported by a 0.1 mill from 1993 to 2013). Funds will be used to acquire and enhance park sites throughout the City and the construction of the Community Center.

6. **Revenue Bonds:** Revenue bonds may be sold for projects, such as water and sewer systems, that produce revenues through user fees. Such bonds usually are not included in state imposed debt limits, as are for the general obligation bonds, because they are not backed by the full faith and credit of the local jurisdiction, but are financed through service charges or fees. However, these bonds may have supplemental guarantees. The interest rates are almost always higher than those of general obligation bonds, and voter approval is seldom required. This source of funding is not generally used by the City.

7. **Special Assessments:** Property owners that benefit from improvements made by the city to their properties, may be asked to pay for those costs through the creation of City Commission approved special assessment districts. Projects covered by such districts involve the installation of sewer and water lines, road restoration, and sidewalk installation. The initial dollars needed to pay for the projects are advanced from the Special Assessment Revolving Fund (a capital projects fund). The property owners receiving the benefit from these improvements are placed on a special assessment roll for repayment over a period of 10 years.

8. **State and Federal Grants:** State and federal grants-in-aid are available to finance a large number of programs. These may include streets, water and sewer facilities, sidewalks, parks, playgrounds, and miscellaneous equipment. The cost of funding these facilities may be borne completely by grant funds, or a local share may be required, Community Development Block Grants (CDBG), Land and Water Conservation Fund Grants, and Department of Natural Resources Trust Fund grants have been most commonly used. The CDBG funds are used to specifically address the capital improvement needs of low and moderate-income areas. Past community projects include street and park construction, sidewalks, utility replacements, and special studies. Since Kent County is the administrator of CDBG funds, the City neither budgets nor accounts for the funds in its general ledger, except for the costs in excess of grant awards.

9. **Tax Increment Financing:** Tax Increment Financing (TIF) under the local development finance authority may be used to provide front-end funds for improvements related to the creation of jobs and the encouragement of business investment. The tax base of an eligible property is set at the current value prior to the construction of public improvements. The improvements are financed through funds from the sale of tax increment bonds or other sources. Due to the increased value of the improved property, more tax revenue is collected and the tax "increment" (tax capture) above the initially established value (base) will be used to repay the source of the original funds. The City's current TIF districts are two brownfield redevelopment districts – one at Woodland Mall, and the other Tender Lawn Care at 3838 East Paris Avenue.

10. **Transportation Funding:** All transportation improvement decisions involving the use of federal and /or state funds in the region in which Kentwood is located are processed through the Grand Valley Metro Council (GVMC), the designated Metropolitan Planning Organization. The Transportation Economic Development Fund (TEDF) is used for economic growth and to improve the quality of life in the state. Two of the six TEDF categories are available to Kentwood through GVMC. Category A funds are used to promote economic development and Category C is intended for urban congestion relief. The federal Congestion Mitigation Air Quality (CMAQ) funds are intended for urban congestion relief while the federal Surface Transportation (STP) funds are primarily utilized by GVMC to be used for resurfacing and reconstruction projects. The federal Transportation Enhancement (TE) funds are used for streetscape and development of non-motorized improvements.

11. **Water and Sewer Funds:** Water and sewer utilities are provided by two separate districts within the City of Kentwood.

The northern and eastern parts of the City, essentially east of Breton Road, are in the Grand Rapids service district. The rates are set by the City of Grand Rapids, and they are responsible for the maintenance, repair, replacement, and billing for this district.

The western part of the City of Kentwood is in the Kentwood/Wyoming service district. Water is supplied to Kentwood by Wyoming from its water treatment plant at Lake Michigan, and sewage is treated at Wyoming's wastewater treatment plant. Maintenance, repair, and replacement of water lines are handled by the Kentwood Department of Public Works, along with billing for water and sewer services in this district.

It takes considerable costs to maintain these systems and it is the goal of the Kentwood/Wyoming Water/Sewer districts to maintain adequate reserves for the replacement of these facilities when needed. All costs associated with each district's systems are reflected in the respective customer's water and sewer bill.

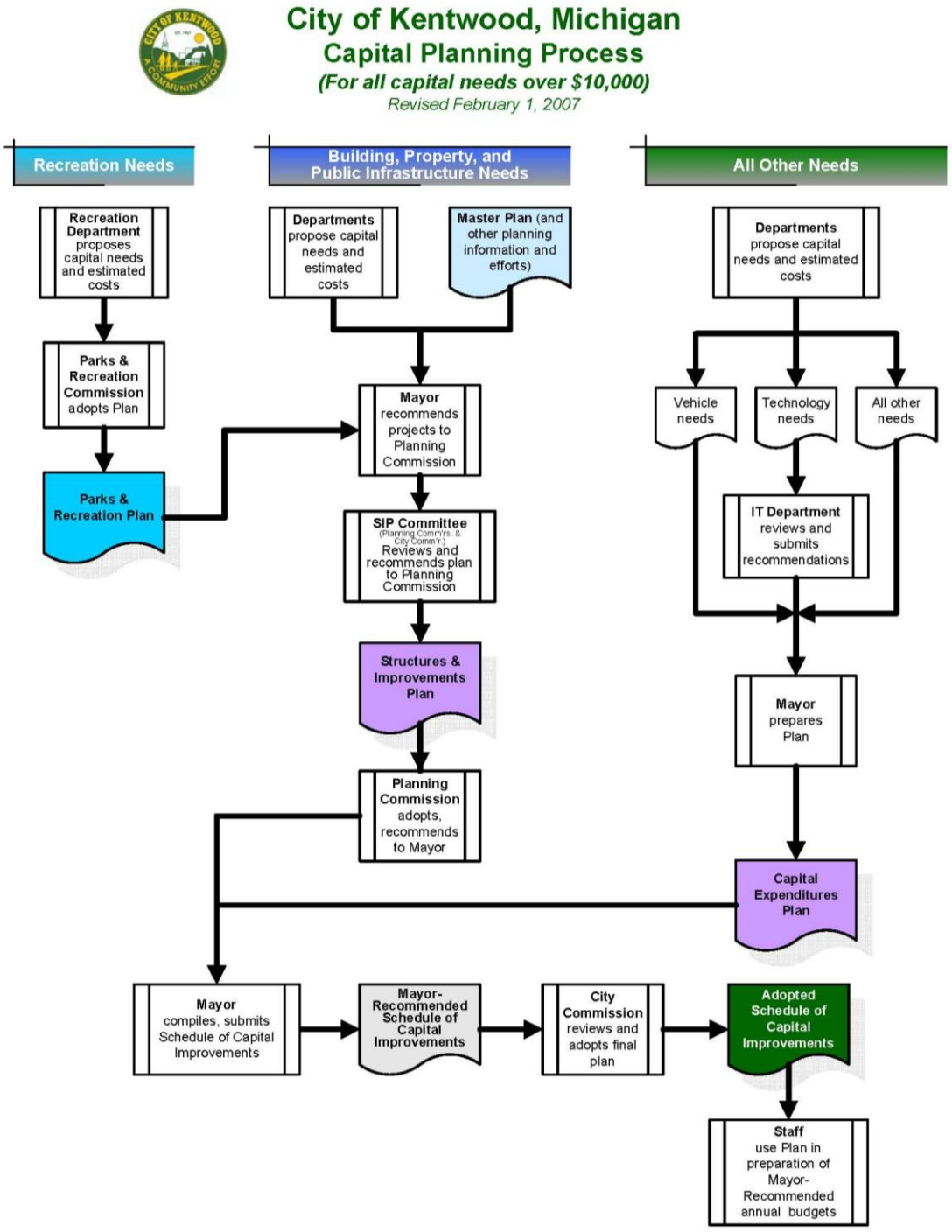
In 2013, State of Michigan Drinking Water Revolving Fund ("DWRF") bonds were issued in the amount of $5,798,672. These funds will pay for the replacement of approximately six miles of water lines throughout the City. The repayment of bond principal and debt service will be supported by revenues from water revenues until 2035.

12. **Commission-Designated Capital Funds:** The Property & Building, Parks and Recreation Equipment, Fire Equipment, and Police Equipment Funds are composed of funds which may be set aside each year by the City Commission, where property tax revenues are transferred from General Fund, Parks and Recreation Millage Fund, and Police/Fire Millage Fund to be used for capital purchases.

Capital needs for the Department of Public Works (DPW) are funded by charging rates to various City departments and other funds, based on usage such as maintenance of roads, parks, public properties, water systems, drains, sanitary and storm sewer system, and the cemetery. Charges reflect the hourly equipment rental rate as established by the State of Michigan, MDOT Schedule (Michigan Department of Transportation). Funds that are accumulated in the DPW Equipment Fund will help finance DPW equipment purchases.

METHODOLOGY

In order for the Structures and Improvement Program (SIP) to be comprehensive, it must attempt to solicit the input from all stakeholders who are either directly or indirectly involved with city operations. The following flow chart indicates how this was accomplished in the plan, and how the SIP will be integrated with the Capital Expenditures Plan (CEP) to form the Mayor-Recommended Schedule of Capital Improvements (SCI).



Schedule of Capital Improvements Plan: 2024 - 2030
Exhibit A: Property and Buildings Fund

	Facility	Constructed	Remodeled	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Justice Center	**2002**	**N/A**						
1	Police-LVT (Luxury Vinyl Tile) Flooring - Phase 2			-					
2	Battery Uninterrupted Power Supply (UPS) Replacement			10,500					
3	Police-Lieutenant Office/Conference Room Remodel			-					
4	Court Clerk Office Reconfiguration			75,000					
5	Police-Gate and Operator Replacement - Phase 1			-					
6	Police-Gate and Operator Replacement - Phase 2				-				
7	Police Stairwell Tread Flooring Replacement				-				
8	Elevator Pump and Controls				6,000				
9	Parking Lot replace/expansion, Carport add/roof replace				213,000				
10	Roof Replacement					45,000			
11	Lightning Protection					12,000			
12	Domestic Water Heater (New 2016)					6,000			
13	Emergency Back-up Generator Replacement								105,000
	City Hall	**1975**	**2004/2019**						
14	Security Glass Addition to Customer Counters			150,000					
15	Energy Recovery Unit (ERU) Refurbishment (Moved from FY24)			140,000					
16	Dehumidification System Replacement (Moved from FY24)			95,000					
17	Roof Replacement				150,000				
18	Carpet Replacement (main floor)					82,500			
19	Carpet Replacement (second floor and basement)					58,500			
20	Cooling Tower Heat Exchanger (Moved from FY23)						30,000		
21	Emergency Back-up Generator Replacement						175,000		
22	Elevator Pump and Controls							20,000	
	Library	**2010**	**N/A**						
23	Community Room Tables and Chairs (Moved from FY23/24)			100,000					
24	Carpet Design and Replacement				130,000				
25	Emergency Back-up Generator Replacement						100,000		
26	Make-up Air Unit (MAU)						25,000		
27	Cooling Tower Heat Exchanger (120 ton)								30,000
	Public Works	**2004**	**N/A**						
28	Building Addition and Remodel			3,000,000	10,000,000				
29	Floor Coating - Parking Garage (moved from FY20)			150,000					
30	Floor Coating - Fleet Technician Truck Bay (moved from FY20)			15,000					
31	Material Storage Bins (moved from FY20)			85,000					
32	Heater for Fleet Technician Small Vehicle Garage				10,000				
33	AC Unit for Fleet Technician Garage (15 ton)				15,000				
34	Heater for Fleet Technician Large Truck Bay Garage				25,000				
35	Heater for Parking Garage				40,000				
36	Flooring - Carpet and VCT Replacement				15,000				
37	IT Room - AC Unit Replacement (moved from FY20)					15,000			
38	Emergency Back-up Generator Replacement								250,000
	Fire Station 1	**1992**	**2003/2015**						
39	Exterior Masonry Sealant			-					
40	Painting of Apparatus Bay Barrel Roof Exterior			-					
41	Domestic Water Heater (New 2018)				-				
42	Carpet Replacement (admin and suppression side)					-			
43	Emergency Back-up Generator Replacement					-			
44	Roof Replacement							-	
	Fire Station 2	**2001**	**N/A**						
45	Exterior Masonry Sealant			-					
46	HVAC - Redesign and Construction (moved from FY23)			-					
47	Roof Replacement				-				
48	Emergency Back-up Generator Replacement						-		

Schedule of Capital Improvements Plan: 2024 - 2030
Exhibit A: Property and Building Fund

	Facility	Constructed	Remodeled	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Fire Station 3	**2001**	**N/A**						
49	Exterior Masonry Sealant			-					
50	Elevator Pump and Controls				-				
51	Roof Replacement				-				
52	Emergency Back-up Generator Replacement					-			
	Community Center	**2025**							
	New Construction								
	Recreation Center	**1983**	**1991/2017**						
53	Emergency Back-up Generator Replacement (moved from FY24)				250,000				
54	Window Replacement (moved from FY24)				20,000				
55	Security Glass and Card Reader Addition				55,000				
56	Parking Lot Surface Replacement					300,000			
57	Roof Replacement						125,000		
	Pinehill Cemetery		**2008**						
58	Master Plan (moved from FY22)				50,000				
59	Security Upgrades (moved from FY23)					47,500			
60	Cantilever Roof for Material Storage					50,000			
61	Roof Replacement						55,000		
62	Maintenance Building Addition (,oved from FY23)								140,000
	Community Center								
	New Construction (see under Parks)								
	Other - Property Repair								
63	City Buildings - Building Repair and Improvements			41,000	41,000	41,000	41,000	41,000	41,000
64	Miscellaneous and Contingency			61,500	61,500	61,500	61,500	61,500	61,500
Citywide Furniture, Fixtures, Equipment, and Technology									
1	Furniture, Fixtures and Equipment			50,000	50,000	50,000	50,000	50,000	50,000
2	Postage Machine					10,000			
3	Wayfinding and Signage Program			50,000					
4	Disaster Recovery			41,000	41,000	41,000	41,000	41,000	41,000
5	Security Consulting			20,500	20,500	20,500	20,500	20,500	20,500
6	Computer Workstation Purchases/Replacements			60,000	60,000	60,000	60,000	60,000	60,000
7	Network Upgrades			41,000	41,000	41,000	41,000	41,000	41,000
8	Application Upgrades			51,250	51,250	51,250	51,250	51,250	51,250
9	Copier Replacement			40,000	41,000	41,000	41,000	41,000	41,000
10	Wireless Campus Upgrades			75,000					
11	Miscellaneous and Contingency			20,500	20,500	20,500	20,500	20,500	20,500
	Total Anticipated Purchases			**$4,372,250**	**$11,406,750**	**$1,054,250**	**$937,750**	**$447,750**	**$952,750**

Schedule of Capital Improvements Plan: 2024 - 2030
Exhibit B: Parks and Recreation Millage Fund

	Project	Other Funding Source	Other Funding Amount	Parks & Recreation Millage	Total Cost
	FY 2024-2025				
1	Pinewood Park Shelter Replacement		-	50,000	50,000
2	Bowen Station Restroom & Parking Lot Replacement	CDBG	300,000	100,000	400,000
3	Portable Light Tower		-	10,000	10,000
4	Paul Henry Trail Rehabilitation	MNRTF	300,000	700,000	1,000,000
5	Community Center	TBD	10,600,000	-	10,600,000
6	Covenant Park			30,000	30,000
8	Miscellaneous and Contingency			125,000	125,000
		Total	**11,200,000**	**1,015,000**	**12,215,000**
	FY 2025-2026				
5	Community Center	TBD	11,626,000	-	11,626,000
6	Covenant Park	TBD	4,000,000	-	4,000,000
8	Miscellaneous and Contingency		-	125,000	125,000
		Total	**15,626,000**	**125,000**	**15,751,000**
	FY 2026-2027				
6	Covenant Park	TBD	2,900,000		2,900,000
8	Miscellaneous and Contingency		-	125,000	125,000
			2,900,000	**125,000**	**3,025,000**
	FY 2027-2028				
6	Covenant Park	TBD	5,000,000	-	5,000,000
7	City Campus	TBD	200,000	-	200,000
8	Miscellaneous and Contingency		-	125,000	125,000
			5,200,000	**125,000**	**5,325,000**
	FY 2028-2029				
7	City Campus	TBD	2,000,000		2,000,000
8	Miscellaneous and Contingency		-	125,000	125,000
			2,000,000	**125,000**	**2,125,000**
	FY 2029-2030				
7	City Campus	TBD	1,500,000	-	1,500,000
8	Miscellaneous and Contingency		-	125,000	125,000
			1,500,000	**125,000**	**1,625,000**
		Grand Total	**38,426,000**	**1,640,000**	**40,066,000**

Structures and Improvements Plan: 2024-2030
Exhibit C: Street, Sidewalks, and Non-Motorized Trails

	Project	Total Cost	Funding Sources (See Definitions Below)				
			STPU	CMAQ	OTHER	Act 51	*Other - Description*
	FY 2025						
1	Julivan St and Ridgewood Reconst (44th St to Division Ave)	$ 552,539				$ 552,539	
2	40th Street Rehabilitation (Soundtech Ct. to Patterson Ave)	$ 203,600	$ 132,600			$ 71,000	
3	East Paris Avenue Resurfacing (Burton St to 28th St)	$ 325,000	$ 211,250		$ 56,875	$ 56,875	*Grand Rapids*
4	36th Street & Patterson Ave Intersection Improvements	$ 150,000				$ 150,000	
5	Miscellaneous Bridge Maintenance	$ 100,000				$ 100,000	
6	Signalized Intersection Upgrades	$ 22,500				$ 22,500	
24	Intersection Crossing of Division Ave in Kelloggsville Middle School	$ 90,000			$ 45,000	$ 45,000	*MDOT Traffic Safety Program*
25	Intersection Crossing of Forest Hill Ave at Hall St/Orchard Creek Dr	$ 20,000			$ 20,000	$ -	*Safe Routes to School*
28	Annual Street Resurfacing Program	$ 1,300,000				$ 1,300,000	
	Winter						
7	Breton Crossing of the Paul Henry Trail	$ 212,500				$ 212,500	
8	52nd St and Breton Ave Traffic Signal & Intersection Reconstruct	$ 300,000			$ 75,000	$ 225,000	*Deveoper*
9	52nd Street Resurface (Bailey's Grove to East Paris)	$ 252,000	$ 176,000			$ 76,000	
10	52nd St Resurface (Division Ave to Eastern Ave)	$ 350,000	$ 245,000			$ 105,000	
11	52nd St Resurface (East Paris to M37)	$ 525,000	$ 367,500			$ 157,500	
12	44th St White-Topping Repair	$ 500,000				$ 500,000	
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 5,103,139**	**$ 1,132,350**	**$ -**	**$ 196,875**	**$ 3,773,914**	**$ -**
	FY 2026						
7	Breton Crossing of the Paul Henry Trail	$ 212,500				$ 212,500	
8	52nd St and Breton Ave Traffic Signal & Intersection Reconstruction	$ 300,000			$ 75,000	$ 225,000	*Deveoper*
9	52nd Street Resurface (Bailey's Grove to East Paris)	$ 252,000	$ 176,000			$ 76,000	
10	52nd St Resurface (Division Ave to Eastern Ave)	$ 350,000	$ 245,000			$ 105,000	
11	52nd St Resurface (East Paris to M37)	$ 525,000	$ 367,500			$ 157,500	
12	44th St White-Topping Repair	$ 500,000				$ 500,000	
25	Intersection Crossing of Forest Hill Ave at Hall St/Orchard Creek Dr	$ 120,000				$ 120,000	
26	Mid-Block Crossing of 44th St at Walnut Hills Dr	$ 250,000			$ 125,000	$ 125,000	*MDOT Traffic Safety Program*
28	Annual Street Resurfacing Program	$ 1,320,000				$ 1,320,000	
	Winter						
13	Model Court Rehab (West of M37)	$ 100,000				$ 100,000	
14	36th St Resurfacing (Shaffer to M37)	$ 250,000	$ 175,000			$ 75,000	
15	36th St Roundabout & Shaffer Ave Rehabilitation	$ 1,525,000		$ 330,193		$ 1,194,807	
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 5,904,500**	**$ 963,500**	**$ 330,193**	**$ 200,000**	**$ 4,410,807**	
	FY 2027						
13	Model Court Rehab (West of M37)	$ 100,000				$ 100,000	
14	36th St Resurfacing (Shaffer to M37)	$ 250,000	$ 175,000			$ 75,000	
15	36th St Roundabout & Shaffer Ave Rehabilitation	$ 1,525,000		$ 330,193		$ 1,194,807	
27	Mid-Block Crossing of 48th St at Marlette St.	$ 20,000				$ 20,000	
28	Annual Street Resurfacing Program	$ 1,340,000				$ 1,340,000	
	Winter						
16	Forest Creek Dr Rehab (East of East Paris Ave)	$ 350,000				$ 350,000	
17	48th St Rehabilitation (Division to Eastern)	$ 465,600	$ 325,920			$ 139,680	Not currently programmed
18	52nd St Resurface (M37 to Patterson)	$ 216,000	$ 151,200			$ 64,800	Not currently programmed
19	Eastern Ave Rehabilitation (52nd to 60th)	$ 900,000	$ 630,000			$ 270,000	Not currently programmed
20	Eastern Ave Rehabilitation (48th to 52nd)	$ 450,000	$ 315,000			$ 135,000	Not currently programmed
21	Eastern Ave Rehabilitation (44th to 48th)	$ 450,000	$ 315,000			$ 135,000	Not currently programmed
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 6,266,600**	**$ 1,912,120**	**$ 330,193**	**$ -**	**$ 3,904,287**	
	FY 2028						
16	Forest Creek Dr Rehab (East of East Paris Ave)	$ 350,000				$ 350,000	
17	48th St Rehabilitation (Division to Eastern)	$ 465,600	$ 325,920			$ 139,680	Not currently programmed
18	52nd St Resurface (M37 to Patterson)	$ 216,000	$ 151,200			$ 64,800	Not currently programmed
19	Eastern Ave Rehabilitation (52nd to 60th)	$ 900,000	$ 630,000			$ 270,000	Not currently programmed
20	Eastern Ave Rehabilitation (48th to 52nd)	$ 450,000	$ 315,000			$ 135,000	Not currently programmed
21	Eastern Ave Rehabilitation (44th to 48th)	$ 450,000	$ 315,000			$ 135,000	Not currently programmed
27	Mid-Block Crossing of 48th St at Marlette St.	$ 120,000				$ 120,000	
28	Annual Street Resurfacing Program	$ 1,360,000				$ 1,360,000	
	Winter						
22	Radcliff Ave (28th St to South End)	$ 175,000				$ 175,000	
23	East Paris Ave Resurfacing (Burton to North City Limits)	$ 700,000	$ 490,000			$ 210,000	
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 5,386,600**	**$ 2,227,120**	**$ -**	**$ -**	**$ 3,159,480**	

Structures and Improvements Plan: 2024-2030
Exhibit C: Street, Sidewalks, and Non-Motorized Trails

	Project	Total Cost	Funding Sources (See Definitions Below)				
			STPU	CMAQ	OTHER	Act 51	*Other - Description*
	FY 2029						
22	Radcliff Ave (28th St to South End)	$ 175,000				$ 175,000	
23	East Paris Ave Resurfacing (Burton to North City Limits)	$ 700,000	$ 490,000			$ 210,000	
28	Annual Street Resurfacing Program	$ 1,380,000				$ 1,380,000	
	Winter						
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 2,455,000**	**$ 490,000**	**$ -**	**$ -**	**$ 1,965,000**	**$ -**
	FY 2030						
28	Annual Street Resurfacing Program	$ 1,400,000				$ 1,400,000	
	Winter						
29	Annual Sidewalk Construction Program	$ 100,000				$ 100,000	
30	Annual Sidewalk Fill-In Program	$ 100,000				$ 100,000	
	Total	**$ 1,600,000**	**$ -**	**$ -**	**$ -**	**$ 1,600,000**	**$ -**

STPU: "Surface Transportation Program - Urban", distributes most federal gas taxes
CMAQ: "Congestion Mitigation & Air Quality", a federal program for signals, turn lanes, etc.
Safety: A federal program, mostly targeted at 'A' & 'K'-type crash locations
NHPP: "National Highway Preservation Program," a federal program for NHS roads
TEDF-C: "Transporation Economic Development Funds - Category C," a state program for increasing capacity
SR2S: "Safe Routes 2 School", a federal program for safe paths to schools (sidewalks)
Act 51: A state program to disburse gas tax monies; the City's primary source of street funding
CDBG: "Community Development Block Grant", a federal program, coordinated through Kent Co., targeted at low- and moderate-income areas

City of Kentwood
Schedule of Structures and Improvements Plan: 2024 - 2030
Exhibit D: Drain, Water, and Sewer

	Drain Fund	FY2025	FY2026	FY2027	FY2028	FY2029	FY2030
1	Detention Pond Cleanouts and Other Drain Work (As Needed)	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000	$ 200,000
	Total	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**	**$ 200,000**
	Water Fund	**FY2025**	**FY2026**	**FY2027**	**FY2028**	**FY2029**	**FY2030**
1	Julivan and Ridgewood St Reconstruction, (44th St to Division Ave)	$ 365,000					
2	Complete Distribution System Materials Inventory (CDSMI)	$ 225,000					
3	Christie Ave Water main Replace (52nd St to Gentian Dr)						$ 260,000
4	Blaine, Burgis, Bonnie, Poinsettia, Marshall, Curwood W Main Replace				$ 1,100,000	$ 1,100,000	
5	Gentian, Ramblewood, Jamestown W main Replace (K'zoo to Discovery)						$ 650,000
6	48th St Widening & Rehabilitation (Division Ave to Eastern Ave)			$ 500,000	$ 500,000		
	500,000 Gallon Elevated Storage Tank						
7	Dry and Wet Interior Tank Painting					$ 75,000	$ 75,000
	1,000,000 Gallon Elevated Storage Tank						
8	Dry and Wet Interior Tank Painting					$ 118,500	$ 118,500
9	Exterior Tank Painting						$ 87,000
	5,000,000 Gallon Ground Storage Tank						
10	Dry Interior Tank Painting		$ 216,000	$ 216,000			
11	Wet Interior Tank Painting				$ 160,000	$ 160,000	
12	Exterior Tank Painting				$ 96,000	$ 96,000	
	Potter Pumping Station						
13	Flow Meter Replacements		$ 38,000	$ 38,000			
14	Oil Capital Valve (OCV) Replacements		$ 30,000	$ 30,000			
15	Roof Replacement		$ 22,500	$ 22,500			
16	Parking Lot Resurfacing	$ 25,000	$ 25,000				
17	Miscellaneous Water Infrastructure (As Needed)	$ 115,000	$ 120,000	$ 125,000	$ 130,000	$ 135,000	$ 140,000
	Total	**$ 730,000**	**$ 451,500**	**$ 931,500**	**$ 1,986,000**	**$ 1,684,500**	**$ 1,330,500**
	Sewer Fund	**FY2025**	**FY2026**	**FY2027**	**FY2028**	**FY2029**	**FY2030**
1	Lining of Sewers in Breton, Kellogg Woods, 52nd St, Other Mains & Manholes	$ 250,000					
2	Sanitary Sewer Main Lining and Manhole Rehabilitation	$ 250,000					
3	Julivan & Ridgewood Reconstruction	$ 272,750					
4	Miscellaneous Sanitary Lateral Lining (As Needed)	$ 95,000	$ 100,000	$ 105,000	$ 110,000	115,000	120,000
	Total	**$ 867,750**	**$ 100,000**	**$ 105,000**	**$ 110,000**	**$ 115,000**	**$ 120,000**

City of Kentwood, Michigan
Schedule of Capital Improvements: 2024 - 2030
Exhibit E: Public Works Equipment Fund

	Proposed Project	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Vehicles (Trucks)						
1	Truck, Dump/Snow Plow {replacements}	$265,000.00					$277,000.00
1	Pickup Truck {replacements}	$120,000.00	$120,000.00		$150,000.00	$120,000.00	$160,000.00
1	Combination Sewer Cleaning Truck {replacement}				$650,000.00		
1	Street Sweeper {replacement}			$400,000.00			
	Tractors						
2	Tractor-Orchard Style -walk plowing, 3pt. mower {replace}				$65,000.00		
	Trailers and Other Towed Equipment						
3	Leaf Vac (small) {replacement}			$6,000.00			
3	Leaf Vac (large) {replacement}	$30,000.00					
4	Turf Roller {towable} (New)	$5,000.00					
5	Lawn Equipment Trailer {replacements}	$12,500.00		$13,500.00	$14,000.00		
6	Equipment Trailer - 20 Ton {replacement}			$100,000.00			
7	Sewer Pump Trailer Mounted, 4" Trash Pump {replacement}			$75,000.00			
8	Brush and tree Chipper {replacement}	$75,000.00					
	Mowers and Associated Equipment						
9	Lawn Mowers,(large ride-on/ride-behind style/push {replace	$16,100.00	$16,400.00	$16,700.00	$17,000.00	$17,000.00	$17,250.00
9	Mower, large (ride-on/ride-behind) {new Covenant Park}			$16,700.00			
9	Mowers, push {replacement}	$750.00		$750.00		$800.00	
10	Fertilizer Spreader Z-Spray {replacement}	$25,000.00					
	Construction Equipment						
11	Dirt Compactors (small) {replacement}		$3,000.00				
	Concrete mixer, portable {replacement}			$8,000.00			
12	Back-hoe {replacement}		$175,000.00				
13	Skid Steer (New Additional)					$100,000.00	
14	**Mobile Equipment Accessories and Equipment**						
	Scraper blades for snow removal trucks {replacements}	$34,000.00	$35,000.00	$35,000.00	$36,000.00	$36,000.00	$37,000.00
	Bobcat track {replacement}			$5,500.00			$6,000.00
	Suspensions for large trucks {replacement as neded}	$9,000.00	$9,500.00	$10,000.00	$10,500.00	$11,000.00	$11,500.00
	Tires for large trucks {replacement as needed}	$12,000.00	$13,000.00	$13,000.00	$14,000.00	$14,000.00	$15,000.00
15	**Hand Tools**						
	Chain saw {replacement}	$600.00	$600.00	$650.00	$650.00	$650.00	$650.00
	Leaf blowers (back pack) {replacement}			$800.00			$850.00
	20' Extendable pruning saw {replacement}		$850.00			$900.00	
	String trimmer {replacement}	$750.00	$800.00	$800.00	$850.00	$850.00	$900.00
	String trimmers - 2 {new Covenant Park}			$1,600.00			
	Edger's {replacement}	$700.00		$700.00		$700.00	
	K-12 pipe saw {replacement}	$1,700.00		$1,800.00		$1,900.00	$2,000.00
	Metal locators {replacements}	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00	$1,000.00
	Pipe tracing locator {replacement}		$6,500.00				
	Shop Tools and Equipment						
	Drill Press {replacement}			$2,500.00			
16	Tire Changer {replacement}	$23,000.00					
17	Portable Truck lift (6 piece wireless set) {replacement}					$120,000.00	
17	Portable Truck lift (4 piece wireless set) {new}	$90,000.00					
	Miscellaneous						
	Snow blowers (walk-behind) {replacement}	$1,000.00		$1,200.00		$1,500.00	
18	Two-way radios 800 MHz {replacements}	$4,000.00	$4,000.00	$4,000.00	$5,000.00	$5,000.00	$5,000.00
	Traffic control signage {new and/or replacement}		$5,000.00		$5,000.00		$5,500.00
	Arrow Board {replacement}		$6,500.00	$7,000.00			
	2000 watt portable generators - {replacement}			$2,500.00			
	5000 watt portable generator {replacement}				$4,000.00		
19	80 KW Portable Generator {replacement}					$75,000.00	
20	Sewer Main Line Camera {replacement}		$120,000.00				
21	Sewer Lateral Push Camera {replacement}			$20,000.00			
22	Sewer Lateral Launch Camera (New)		$115,000.00				
	3" Diaphragm pump {replacement}		$3,000.00				
	3" Trash pump {replacement}		$3,000.00				
23	Hydraulic Front Plow {new}					$12,000.00	
24	Scissor Lift {replacement}						$45,000.00
25	Manually operated Scissor Lift for Community Center (New)		$40,000.00				
26	Manually operated Scissor Lift for library (New)	$40,000.00					
	Portable Pressure Washer {replacement}			$2,500.00			
27	Walk Behind Asphalt/Concrete Saw {replacement}		$28,000.00				

City of Kentwood, Michigan
Schedule of Capital Improvements: 2024 - 2030
Exhibit E: Public Works Equipment Fund

	Proposed Project	2024-25	2025-26	2026-27	2027-28	2028-29	2029-30
	Hyroseeder (new)						
28	Easement Machine (New)		$45,000.00				
29	Top Dresser for Sports Fields (new)	$40,000.00					
30	Deep Tine Aerator (New)	$30,000.00					
31	Cold Plane for Asphault Mill (New)		$30,000.00				
	Other						
	Liquid Storage Tanks {new]						
	Salt Brine Tank & Accessories {new}						
32	**Miscellaneous & Contingency**	$75,000.00	$75,000.00	$75,000.00	$75,000.00	$75,000.00	$75,000.00
	Total Anticipated Purchases	**$912,100.00**	**$856,150.00**	**$822,200.00**	**$1,048,000.00**	**$593,300.00**	**$659,650.00**

City of Kentwood, Michigan

Schedule of Capital Improvements: 2024 - 2030

Exhibit F: Fire Equipment Fund

Note #	Project	Fiscal Year 2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	
	Buildings & Site Improvements							
	Station 1							
39	Exterior Masonry Sealant	15,000						
40	Painting of Apparatus Bay Barrel Roof Exterior	35,000						
41	Domestic Water Heater (new 2018)		15,000					
42	Carpet Replacement (admin & suppression side)			45,000				
43	Emergency Back-up Generator Replacement			200,000				
44	Roof Replacement					96,000		
	Station 2							
45	Exterior Masonry Sealant	15,000						
46	HVAC Redesign and Construction (moved from FY 23	250,000						
47	Roof Replacement		73,000					
48	Emergency Back-up Generator Replacement				200,000			
	Station 3							
49	Exterior Masonry Sealant	15,000						
50	Elevator Pump and Controls		20,000					
51	Roof Replacement		105,000					
52	Emergency Back-up Generator Replacement			200,000				
63	City Buildings - Other Repair and Improvements	24,000	24,000	24,000	24,000	24,000	24,000	
64	Miscellaneous and Contingency	36,000	36,000	36,000	36,000	36,000	36,000	
	Sub Total	390,000	273,000	505,000	260,000	156,000	60,000	1,644,000
	Technology							
4	Disaster Recovery	24,000	24,000	24,000	24,000	24,000	24,000	
5	Security Consulting	12,000	12,000	12,000	12,000	12,000	12,000	
6	Computer Workstation Purchases/Replacements	15,000	15,000	15,000	15,000	15,000	15,000	
7	Network Upgrades	24,000	24,000	24,000	24,000	24,000	24,000	
8	Application Upgrades	30,000	30,000	30,000	30,000	30,000	30,000	
9	Copier Replacement	30,000	24,000	24,000	24,000	24,000	24,000	
11	Miscellaneous & Contingency	12,000	12,000	12,000	12,000	12,000	12,000	
	Sub Total	147,000	141,000	141,000	141,000	141,000	141,000	
	Fire Equipment Purchases							
1	Vehicles							
	Replace 2018 Chevy Tahoe (C-1) - Fire Chief	60,000						
	Chevy Pickup (C-7) - Training Captain	60,000						
	Replace 2018 Chevy Tahoe (C-4) - Fire Marshal		60,000					
	Replace 2012 Chevy Silverado (U52) - Utility Station 2		50,000					
	Replace 2018 Chevy Tahoe (C-5) - Fire Inspector			60,000				
	Replace 2014 Spartan ERV Pumper (E-55)			850,000				
	Medic Unit - 2019 Chevy Silverado (M-51) Station 1				140,000			
	Replace 2019 Chevy pick up (C-6) - Fire Inspector				60,000			
	Brush Unit - 2015 Chevy Silverado (B51) Station I				50,000			
	Replace 2021 Chevy Tahoe (C-2) - Deputy Chief					60,000		
	Medic Unit - 2016 Suburban (M-52) Station 2							
	Replace 2000 Sutphen Aerial Platform (P-51) - Station 1					1,800,000		
	Replace 2016 Chevy Tahoe(C-3) - Duty Officer/Station 1						60,000	
	Brush Unit - 2016 Silverado Pickup (B53) Station 3						50,000	
	Sub Total	120,000	110,000	910,000	250,000	1,860,000	110,000	
	Equipment							
2	Modem Replacement	18,700						
3	Training Center	750,000						
6	Extrication Tools			50,000				
	Sub Total	768,700	0	50,000	0	0	0	
	Miscellaneous							
7	Miscellaneous & Contingency	50,000	50,000	50,000	50,000	50,000	50,000	
	Grand Total	**1,475,700**	**574,000**	**1,656,000**	**701,000**	**2,207,000**	**361,000**	

City of Ketwood, Michigan
Schedule of Capital Improvements: 2024 - 2030
Exhibit G: Police Equipment Fund

Note #	Project	Fiscal Year					
		2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030
	Property and Building Improvements and Repairs						
1	Police- LVT (Luxury Vinyl Tile Flooring - Phase 2	95,000					
2	Battery Uninterrupted Power Supply (UPS) Replace	24,500					
3	Lieutenant Office/Conference Room Remodel	18,500					
4	Court Clerk Office Reconfiguration	-					
5	Police - Gate and Operator Replacement - Phase 1	50,000					
6	Police - Gate and Operator Replacement - Phase 2		50,000				
7	Police Stairwell Tread Flooring Replacement		40,000				
8	Police - Elevator Pump and Controls		14,000				
9	Parking Lot Replace/expansion, Carport add/roof replace		497,000				
10	Roof Replacement			105,000			
11	Lightning Protection			28,000			
12	Domestic Water Heater (New 2016)			14,000			
13	Emergency Back-up Generator Replacement						245,000
63	City Buildings - Other Repair and Improvements	35,000	35,000	35,000	35,000	35,000	35,000
64	Miscellaneous and Contingency	52,500	52,500	52,500	52,500	52,500	52,500
		275,500	*688,500*	*234,500*	*87,500*	*87,500*	*332,500*
	Technology						
4	Disaster Recovery	35,000	35,000	35,000	35,000	35,000	35,000
5	Security Consulting	17,500	17,500	17,500	17,500	17,500	17,500
6	Computer Workstation Purchases/Replacements	75,000	75,000	75,000	75,000	75,000	75,000
7	Network Upgrades	35,000	35,000	35,000	35,000	35,000	35,000
8	Application Upgrades	43,800	43,800	43,800	43,800	43,800	43,800
9	Copier Replacement	30,000	35,000	35,000	35,000	35,000	35,000
11	Miscellaneous & Contingency	17,500	17,500	17,500	17,500	17,500	17,500
		253,800	*258,800*	*258,800*	*258,800*	*258,800*	*258,800*
	Police Equipment Purchases						
1	Soft Body Armor Replacement	16,000	22,500	20,000	20,500	18,000	19,000
2	Justice Assistance Grant (JAG) Expenditure	13,000	13,000	13,000	13,000	13,000	15,000
3	Taser Program*	45,100	63,000	63,000	63,000	63,000	63,000
4	Body/In-Car/Interview Room Camera Program*	175,000	234,000	234,000	234,000	234,000	234,000
5	800MHz Radio Replacement	25,000	100,000	50,000	50,000	50,000	50,000
6	Flock Camera/LPR System	77,000	70,000	70,000	70,000	70,000	73,500
7	Tactical Drone Program #2	35,000					
8	Patrol Armor Plate Replacement	78,000					
9	K9 Program	14,000					
10	New Report Writing and Management System		500,000				
11	Duty Pistols for Additional Officers		13,000				
12	Command Post		100,000				
13	Red Dot Optics for Pistols			90,000			
14	Patrol Rifles for Additional Vehicles			57,000			
15	Less Lethal Launchers for Additional Vehicles			18,000			
16	Armored Rescue Vehicle			250,000			
17	Conference/Office Chair Replacements			60,000			
18	Lieutenant Office/Conference Room Remodel			40,000			
19	Detective Bureau Cubicle Redesign				20,000		
20	Tactical Drone Program #1 Replacement					30,000	
21	Tactical Drone Program #2 Replacement						35,000
22	Patrol Armor Plate Replacement						80,000
		478,100	*1,115,500*	*965,000*	*470,500*	*478,000*	*569,500*
23	**Vehicles**						
	Vehicles - Patrol (replacement)	509,432	610,136	479,243	501,735	611,584	639,731
	Vehicles - Supervisory (replacement)	72,776	-	79,874	83,623	87,369	-
	Vehicles - Lieutenant (replacement)	-	127,974	61,699	-	-	70,390
	Vehicles - Detective Bureau/Admin (replacement)	145,000	148,840	156,282	196,915	137,841	180,916
	Vehicles - Specialty (replacement)	72,776		-	-	87,369	91,390
		799,984	*886,950*	*777,098*	*782,273*	*924,163*	*982,427*
24	Miscellaneous & Contingency	50,000	50,000	50,000	50,000	50,000	50,000
	Total	**1,857,384**	**2,999,750**	**2,285,398**	**1,649,073**	**1,798,463**	**2,193,227**
	Taser Program - 2021-2025 Is under a 5-yr contract*						
	Body/In-Car/Interview Camera Program - 2021-2025 is under a 5-yr contract*						