

Phase I Environmental Site Assessment

**Grand Haven Board of Light and Power
Diesel Plant
518 South Harbor Drive
Grand Haven, Michigan**

Parcel Number 70-03-20-399-006

**Prepared For:
CL Real Estate, LLC
Peru, Illinois
and
Ottawa County Brownfield Redevelopment Authority
West Olive, Michigan**

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List of Abbreviations/Acronyms

AAI	all appropriate inquiry
ACM	asbestos containing material
AIRS	Permit and Emissions Inventory Data
AMSD	approximate minimum search distance
amsl	above mean sea level
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
AUL	Activity and Use Limitation
BEA	Baseline Environmental Assessment
bgs	below ground surface
BTEX	benzene, toluene, ethylbenzene, and xylenes
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
CERCLIS	Comprehensive Environmental Response, Compensation, and Liability Information System
CESQG	conditionally-exempt small-quantity generator
CFR	Code of Federal Regulations
CORRACTS	Corrective Action Report
CPG	Certified Professional Geologist
DCC	Direct Contact Criteria
DCE	dichloroethene
DRO	diesel range organics
DWC	Drinking Water Criteria
DWPC	Drinking Water Protection Criteria
ECHO	Enforcement and Compliance History Information Online
EDR	Environmental Data Resources, Inc.
EGLE	Michigan Department of Environment, Great Lakes, and Energy
EGLE-AQD	Air Quality Division of EGLE
EGLE-ODWMA	Office of Drinking Water and Municipal Assistance
EGLE-OWMRP	Office of Waste Management and Radiological Protection
EGLE-RRD	Remediation and Redevelopment Division of EGLE
EGLE-WHMD	Waste and Hazardous Materials Division of EGLE
EGLE-WRD	Water Resources Division of EGLE
ERD	Environmental Response Division
ERNS	Emergency Response Notification Systems
ESA	Environmental Site Assessment
FINDS	Facility Index System/Facility Registration System
FOIA	U.S. Freedom of Information Act
GIS	Geographic Information System
GRCC	Generic Residential Cleanup Criteria
GSIPC	Groundwater/Surface Water Interface Protection Criteria
ICIS	Integrated Compliance Information System
IC/EC	Institutional Controls/Engineering Controls
IRAP	Interim Remedial Action Plan
LNAPL	light non-aqueous phase liquids
LQG	large quantity generator
LUST	leaking underground storage tank
MDLARA	Michigan Department of Licensing and Regulatory Affairs
MDNR	Michigan Department of Natural Resources

NFA Report	No Further Action Report
NFRAP	No Further Remedial Action Planned
NLR	No License Required
NPDES	National Pollutant Discharge Elimination System
NPL	National Priorities List
NREPA	Natural Resources and Environmental Protection Act
PA	Public Act
PCBs	polychlorinated biphenyls
PCE	tetrachloroethene or tetrachloroethylene
PFAS	Poly-and Perfluoroalkyl Substances
PFOA	perfluorooctanoic acid
PFOS	perfluorooctane sulfonic acid
PNA	polynuclear aromatic hydrocarbons
PSIC	Particulate Soil Inhalation Criteria
RBSL	Risk-Based Screening Levels
RCRA	Resource Conservation and Recovery Act
RMP	Risk Management Program or Plan
REC	recognized environmental condition
SDBL	Statewide Default Background Levels
SEMS-ARCHIVE	Superfund Enterprise Management System Archive
SHWS	State Hazardous Waste Site
SQG	small quantity generator
SVOC	semi-volatile organic compound
TCE	trichloroethene or trichloroethylene
TRIS	Toxic Release Inventory System
TSCA	Toxic Substances Control Act
TSD	treatment, storage, and disposal
µg/kg	micrograms per kilogram
µg/L	micrograms per liter
USCG	United States Coast Guard
USDA	U.S. Department of Agriculture
USEPA	U.S. Environmental Protection Agency
USGS	U.S. Geological Survey
UST	underground storage tank
VEC	vapor encroachment condition
VIAP	Volatilization to Indoor Air Pathway
VEC	vapor encroachment condition
VOC	volatile organic compound
WDS	waste disposal site
WWTP	wastewater treatment plant

1.0 Summary

Fishbeck has performed a Phase I ESA for the Grand Haven Board of Light and Power (GHBLP) Diesel Plant at 518 South Harbor Drive, Grand Haven, Ottawa County, Michigan (the Site). A Location Map and a Site Map for the Site are included in Appendix 2. This Phase I ESA was conducted in conformance with the scope and limitations of ASTM Standard Practice E1527-13 (ASTM Standard) and constitutes all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice, as defined in *Standards and Practices for All Appropriate Inquiries (AAI)* (40 CFR Part 312). For reference, Appendix 1 contains the ASTM Standard Practice E1527-13 Definitions.

The purpose of this assessment is to determine if RECs exist on the Site and to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability.

The Site is currently owned by the City of Grand Haven and contains the GHBLP diesel plant. The plant was retired on June 1, 2020, and it is no longer operating. The Site consists of approximately two acres and contains an approximate 10,200-square-foot building, and a public parking lot east of the building. The generation of electrical power using diesel engines has been conducted since at least the 1930s until it was shut down. Historical records indicate the Site contained a coal-fired plant prior to development of the diesel plant.

During the course of this investigation, Fishbeck encountered evidence of the following RECs in connection with the Site:

- A. Based on site observations, the basement of the diesel plant building is heavily stained, and the presence of several absorbent mats indicate current incidental and historical releases of petroleum products to the basement floor. Groundwater was observed infiltrating into the basement during the reconnaissance. This is indicative of cracks in the basement floor where spilled material could potentially reach the subsurface below.
- B. The Site is listed as an EGLE Inventory/Part 201 site as the result of a 2005 release of No. 5 fuel oil from a buried transfer line, from an offsite former AST to the building. Historical investigations identified the presence of xylene and benzo(a)pyrene in site soils. Annual groundwater sampling events indicate the groundwater has not been impacted by BTEX or PNAs; however, a sheen has routinely been observed in monitoring wells located west of the building.
- C. An electrical substation has been present southeast of the building since at least 1962. Current information indicates the transformers onsite do not contain PCBs. Potentially, PCB-containing transformer oil may have been released to the soils in the substation area from past undocumented releases.
- D. Historical records indicate that a coal-fired power plant and a coal storage area was formerly located on the east side of the Site, approximately where the current parking lot exists. Soil and/or groundwater may be impacted by the past use and storage of coal.
- E. An unidentified approximate 1-inch capped steel pipe was observed leading out of the basement wall on the north side of the building. The former use of this pipe is unknown. There is a potential for this pipe to have been used to transport petroleum products, and to have leaked to the subsurface outside the plant.

In addition to the RECs outlined above, the potential for vapor intrusion into the Site building exists due to the potential releases of petroleum products beneath the building, and the presence of high methane in groundwater at the neighboring U.S. Coast Guard (USCG) site.

There were no HRECs or CRECs identified.

2.0 Introduction

2.1 Purpose

This document presents the results of a Phase I ESA on the Site. Becky Huttenga, on behalf of the Ottawa County Brownfield Redevelopment Authority, has requested Fishbeck perform this assessment, which was conducted by Thomas Budge, EP.

This assessment was conducted to provide an objective, independent professional opinion of the potential environmental risks, if any, associated with the Site. The purpose of this assessment is to identify RECs in connection with the Site and to satisfy one of the requirements to qualify for the innocent landowner, contiguous property owner, or bona fide prospective purchaser limitations on CERCLA liability, i.e., “all appropriate inquiry into the previous ownership and uses of the property consistent with good commercial or customary practice.”

A REC means the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. This term is not meant to include de minimis conditions that generally do not pose 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 government agencies. Conditions deemed de minimis are not RECs.

2.2 Detailed Scope of Services

This Phase I ESA was conducted in general accordance with the scope and limitations of the ASTM Standard. This assessment included a site reconnaissance, review of governmental records and environmental databases, interviews with persons knowledgeable of site conditions, review of available historical information on the Site and surrounding properties, and report preparation.

The client did not request that any additional issues be addressed in this report.

2.3 Significant Assumptions

Fishbeck assumes the information reviewed in this assessment (including government records and environmental databases, prior ESAs, and historical sources) is reliable and accurate. We also assume all interviewees have responded truthfully and to the extent of their knowledge.

2.4 Limitations and Exceptions

The information gathered for this Phase I ESA is limited to information that is publicly available, obtainable within reasonable time and cost constraints, and is practically reviewable. It is also limited to accessible areas and conspicuous visual indicators encountered during the site reconnaissance. The ESA interpretations are made within the context of these limitations.

2.5 Special Terms and Conditions

No special terms and conditions were required in this assessment.

2.6 User Reliance

This Phase I ESA report is provided for the OCBRA's and the User's exclusive use. The report may also be used by any lender that is loaning funds in connection with the Site. Any use of the report by others, without the written consent of Fishbeck, will be without liability to Fishbeck.

3.0 User-Provided Records

Mr. Brant Cohen, on behalf of CL Real Estate (the User), completed a User Questionnaire on October 6, 2021, provided by Fishbeck. A copy of the questionnaire is included in Appendix 3.

3.1 Title Records

Title records were not provided. Historical uses of the Site were determined through the use of other sources including Sanborn maps, city directories, aerial photographs, etc., as discussed in Section 6.0 of this report.

3.2 Environmental Liens or Activity and Use Limitations

Mr. Cohen was unaware of any federal, state, or local environmental cleanup liens in effect for the Site. In addition, Mr. Cohen was unaware of any legal restrictions on the Site's use or for activities conducted on the Site.

Fishbeck reviewed <http://www.mcgi.state.mi.us/environmentalmapper/>, the EGLE online database Environmental Mapper, for any land use or activities restrictions for the Site. The database did not show any recorded land use or activities restrictions on the Site.

Fishbeck also reviewed https://www.michigan.gov/documents/deq/deq-rrd-ce-PerfectedLienList_496199_7.pdf, the online Michigan Environmental Liens list. The database did not show any recorded land use or activities restrictions on the Site.

3.3 User Knowledge

Mr. Cohen stated he was aware that the Site was used as a coal power plant, and since the late 1920s it has operated as a diesel powerplant. He also indicated that, based on a 2020 Phase I ESA (discussed below in Section 3.5), he was aware of chemical use on the Site and was also aware of past releases and cleanup activities.

3.4 Valuation Reduction for Environmental Issues

Mr. Cohen stated the proposed price being paid for this property reasonably reflects the fair market value.

3.5 Prior Site Investigations

Fishbeck conducted a prior Phase I ESA on the Site dated January 22, 2020. The 2020 Phase I ESA reported that the Site has been used for the generation of electrical power using diesel engines since at least the 1930s. Prior to the use of diesel engines, the Site contained a coal-fired power plant.

The following RECs were identified in the 2020 Phase I ESA:

- A. Based on site observations, the basement of the diesel plant building is heavily stained, and the presence of several absorbent mats indicate current incidental and historical releases of petroleum products to the basement floor. Groundwater was observed infiltrating the basement during the reconnaissance. This is indicative of cracks in the basement floor where spilled material could potentially reach the subsurface below.
- B. The Site is listed as an EGLE Inventory/Part 201 site as the result of a 2005 release of No. 5 fuel oil from a buried transfer line from an offsite former AST to the building. Historical investigations identified the presence of xylene and benzo(a)pyrene in site soils. Annual groundwater sampling events indicate the groundwater has not been impacted by BTEX or PNAs; however, a sheen has routinely been observed in monitoring wells located west of the building.
- C. An electrical substation has been present southeast of the building since at least 1962. Current information indicates the transformers onsite do not contain PCBs. Potentially, PCB-containing transformer oil may have been released to the soils in the substation area from past undocumented releases.

- D. Historical records indicate that a coal-fired power plant and a coal storage area were formerly located on the east side of the Site, approximately where the current parking lot exists. Soil and/or groundwater may be impacted by the past use and storage of coal.

In addition to the RECs outlined above, a potential for vapor intrusion into the Site building was identified due to the potential releases of petroleum products beneath the building and the presence of high methane in groundwater at the neighboring USCG site.

In addition, an ongoing hydrogeological investigation is being conducted related to historical releases of No. 5 fuel oil from underground piping that transferred No. 5 fuel oil from an offsite AST located south of the Site. Annual monitoring of Site groundwater has been ongoing. These activities, as well as documentation of other historical releases at the Site are discussed in Section 8.2.

3.6 Reasons for Performing Phase I ESA

The User requested the completion of this Phase I ESA, prior to potential acquisition of the Site, to establish whether RECs exist in connection with the Site. Conducting this Phase I ESA enables the User to satisfy one of the requirements to qualify for liability protection under the CERCLA and Part 201 and Part 213.

4.0 Site Description

4.1 Location and Legal Description

The Site is located in the Southeast ¼ of the Southwest ¼ of Section 20, Town 8 North, Range 16 West, City of Grand Haven, Ottawa County, Michigan. The property address is 518 South Harbor Drive, and the parcel number is 70-03-20-399-006. The Site's legal description, obtained from the City of Grand Haven online Assessor files is:

- LOTS 1 THRU 3 BLK 3 CAMPAUS ADDITION

A copy of the assessor file is included in Appendix 4.

4.2 Physical Description

The Site consists of approximately two acres and contains an approximate 10,200-square-foot building and a public parking lot. The Site is located within a mixed residential and commercial neighborhood.

According to historical records, the building appears to have originally been constructed in the early 1900s. It is a steel-framed building constructed primarily with brick. The building interior contains four levels. The third and second floors are mezzanine areas that run along the south side of the building, overlooking the first floor, and there is a basement.

Utilities supplied to the Site include electricity, natural gas, and municipal water and sanitary sewer service. The building is heated with natural gas. Water and sanitary sewer services are supplied to the Site by municipal authorities.

4.3 Current Uses of the Site

The Site is currently vacant and unused.

4.4 Current Uses of Adjoining Properties

Adjoining properties were assessed during the site reconnaissance to identify uses that may potentially create an offsite source of contamination that could impact the Site. The adjoining properties were viewed from the Site and/or readily accessible public roadways or right-of-ways. The observed uses of the adjoining properties are summarized below:

Direction	Observed Use	Environmental Concerns
North	United States Coast Guard Station	None Observed
South	Sherman Avenue and a City of Grand Haven skate park, and a commercial building across Sherman Avenue	None Observed
West	Sherman Avenue and a City of Grand Haven park	None Observed
East	Residential properties	None Observed

5.0 Environmental Setting

5.1 Topography and Surface Water

The current USGS topographic map (provided in Appendix 5) indicates the surface elevation of the Site is approximately 603 feet amsl on land that slopes in a northwesterly direction toward the Grand River, which is located approximately 300 feet to the northwest. Lake Michigan is located approximately 0.5 mile west.

5.2 Soils

According to <http://websoilsurvey.nrcs.usda.gov/app/>, the USDA Natural Resources Conservation Service Web Soil Survey, the soils on the Site consist primarily of Made land. The soils on the southeastern corner of the Site are comprised of Plainfield sand dunes, 6 to 18 percent slopes. A copy of the soil survey is provided in Appendix 5.

5.3 Hydrogeology

Based on static water level measurements documented in the 2020 Annual Monitoring Well Sampling Report, depth to groundwater ranges from approximately 6.5 feet bgs along the northern side of the property, along Harbor Drive, to approximately 15 feet bgs on the southern portion of the property by Sherman Avenue. Groundwater flow direction is northwesterly, toward the Grand River. Lithology observed during the installation of monitoring wells consisted of topsoil to a depth of 1 foot bgs. Underlying the topsoil was brown progressing to tan, moist, fine-grained sand, with a little gravel and debris (brick fragments) to a depth of 10.5 feet bgs.

6.0 Site History

The historical uses of the Site have been reconstructed from information obtained during interviews with knowledgeable persons, reviews of Sanborn™ Fire Insurance Maps, city directories, historical topographic maps, and historical aerial photographs. Historical research documentation is located in Appendix 6.

6.1 Interviews with Knowledgeable Persons

Mr. Cederquist indicated the Site was used for electricity generation, using diesel engines, since the 1930s. He indicated there was originally a coal-fired steam plant located on the northwestern portion of the Site, in the area of the existing parking lot. He indicated the plant was retired on June 1, 2020, and the last operable diesel engine was shut down and all oil/fuel was removed from the engine. He also indicated all oil and diesel fuel storage tanks were emptied and the material was removed from the Site for proper disposal/recycling.

6.2 Historical Sanborn™ Maps

Fishbeck reviewed historical Sanborn™ Fire Insurance Maps for the Site, dated at various intervals from 1906 to 1963, obtained from EDR. The maps indicate the structures present on the Site, and the general use of the property at the time of publishing, as well as certain details about the construction of the structures. Details of the map findings are summarized in the following tables. A copy of the EDR Sanborn Map Report is included in Appendix 6.

Map Date	Map Findings	Environmental Concern
1906, 1912	The Site is occupied by the City Water Works and Electric Light Plant. A building is centrally located on the property (smaller than the currently existing building). Coal storage is shown on the east side of the building, engines/dynamos are identified inside the building, an oil house is shown in the western portion of the building, and a 20-foot deep covered well is shown off the northeast corner of the building.	Potential - coal storage, engine usage, well, and power generation.
1920	Similar to 1912; however, coal storage is no longer shown.	Potential - engine usage, well, and power generation.
1931, 1949, 1963	A building expansion is shown on the southwest side of the existing building. The expansion is shown to contain diesel engines and dynamos. The building appears to have been built over a well, shown on earlier maps. A new well is shown off the southeastern corner of the building. A railroad spur enters the property on the northeast corner leading to the building. Coal storage is shown adjacent to the railroad spur.	Potential - engine usage, well, coal storage, and power generation.

6.3 Historical City Directories

Fishbeck reviewed reproductions of historical City Directory entries for the Site, dated in approximate five-year intervals from 1952 to 2014, obtained from EDR. Historical City Directories can give an indication of the ownership, occupancy, or use of a property when combined with the Sanborn Map and aerial photograph information. A copy of the EDR City Directory report is included in Appendix 6.

There are no listings for the 518 South Harbor Drive property in the city directories. The GHPLP offices and service building are listed at 650 South Harbor Drive in the directories between 1977 and 1987. The 1972 directory lists the City Municipal Power Plant, City Board of Light & Power, and Municipal Light & Power Plant storeroom at 500 South Harbor Drive. South Harbor Drive was not shown in the 1952 through 1967 directories.

6.4 Historical Aerial Photographs

Fishbeck reviewed historical aerial photographs for the Site, dated at various intervals from 1939 to 2016, obtained from EDR. Although the scale and resolution of the historical aerial photographs do not always produce the clarity necessary to determine individual site features, they are instructive for tracking the overall development of the Site and the surrounding area. A copy of the EDR aerial photograph report is included in Appendix 6. Observations made during the review of the photographs are summarized below:

Photo Date	Photo Findings	Environmental Concern
1938	A structure is shown on the Site; however, the resolution is insufficient to determine any details.	None observed in photograph
1955	The existing brick building that occupies the western portion of the Site is shown. Additional structures are located east of the brick building (in the area of the existing parking lot).	
1962, 1968	Similar to 1955 photograph. Electrical transformers appear evident near the southeast corner of the Site (where existing transformer area is located).	Potential - PCBs in older transformers.
1972	Insufficient resolution to determine details.	None observed in photograph

Photo Date	Photo Findings	Environmental Concern
1986	Structures on east side of existing building appear to have been removed and the existing parking lot is shown.	None observed in photograph
1997 - 2016	Site appears similar to how it currently exists.	None observed in photograph

6.5 Historical Topographic Maps

Fishbeck reviewed historical topographic maps for the Site, obtained from EDR. Historical topographic map entries can present unique or additional information about the history of a site, including the presence of former lagoons, wells (oil/gas/mineral), and surface mining operations. A copy of the EDR historical topographic map report is included in Appendix 6. There were no significant findings in the historical topographic maps.

7.0 Surrounding Properties History

Based on the above historical references, the property located at 500 South Harbor Drive was occupied by American Brass Company, a brass foundry, from at least 1906 until 1972. The 1982 city directory shows the former brass foundry had been redeveloped into the Sandpipe Condominiums. The USCG station, adjacent north, reportedly opened in 1989. Historical aerial photographs indicated this site may have been a marina prior to the USCG's occupation.

The City of Grand Haven water department building was formerly located southwest of the Site. This building now appears to be privately owned and is used for commercial/office purposes. Historical aerial photographs depict three large ASTs east of the former water department building (south of the Site). The ASTs are identified in reports regarding the 2005 No. 5 fuel oil release, and indicated that the largest tank, located closest to the Site, was a water tank. The two smaller tanks were 420,000-gallon ASTs, one of which was used to store fuel oil that was piped via underground piping to the diesel plant. Aerial photography indicates the water tank was removed sometime between 2009 and 2012, and the fuel oil ASTs were removed sometime between 2012 and 2016.

8.0 Records Review

8.1 Database Review

EDR was retained to conduct a computerized search of publicly available environmental regulatory databases. The EDR report included a review of Standard Environmental Record Sources located within their respective AMSD as described in the ASTM Standard. A copy of the EDR research data and a description of the databases are included in Appendix 7.

The Site was identified in the following Standard Environmental Record Sources: ERNS, UST (closed), LUST (closed), AST, and EGLE Part 201/Inventory.

The following neighboring sites identified in the EDR report are considered significant to the Site, based on their listing in the Standard Environmental Record Sources:

- GHBLP, 530 South Harbor Drive, adjacent south, across Sherman Avenue. This site is listed as a UST (closed) site.
- Grand Haven BLP, Mulligan Drive, adjacent southeast, across Sherman Avenue. This site is listed as a US Brownfields site.
- USCG Station, 350 South Harbor Drive, adjacent north, across South Harbor Drive. This site is listed as a EGLE Part 201/Inventory site.
- Northwest Ottawa Water Plant, 30 Sherman Avenue, approximately 330 feet southeast of Site. This site is listed as a UST (closed) and an AST site.

- Michigan Gas Utilities, 310 South Harbor Drive, approximately 760 feet northeast of Site. This site is listed as a LUST (closed), UST (closed), and an EGLE Part 201/Inventory site.
- Wessel's, Inc., 102 South Harbor Drive, approximately 1,465 feet north-northeast of the Site. This site is listed as a LUST (open) and EGLE Part 201/Inventory site.

The EDR report identified numerous surrounding sites on the Standard Environmental Record Sources within their respective AMSD, as described in the ASTM Standard. However, Fishbeck considered most of the listed sites unlikely to impact the Site based on factors including, but not limited to:

- Fishbeck's interpretation of subsurface conditions with respect to inferred groundwater conditions and movement.
- The distance between the listed site and the subject site, with respect to subsurface migration pathways.
- Potential drainage, obstructions, or preferential pathways.
- The physical site setting.
- The nature, age, and current status of the listings.

8.2 EGLE/MDLARA Agency File Review

Based on the EDR report, a FOIA request was submitted to the Grand Rapids District Office of EGLE for the Site and the properties considered significant to the Site, as described above.

In addition, a FOIA request was submitted to the MDLARA for the Site, GHBLP, 530 South Harbor Drive, and the Northwest Ottawa Water Plant, 30 Sherman Avenue.

No information was on file for the GHBLP Mulligan Drive site.

Files reviewed for the Site and nearby properties are summarized below.

The Site, 518 South Harbor Drive

Files regarding the Site are summarized as follows:

2005 No. 5 Fuel Oil Release – A summary of the release and initial response activities were found in a June 29, 2007, Status Report and Proposed Work Plan submitted to EGLE by Lakeshore Environmental, Inc. (Lakeshore). A release of No. 5 fuel oil was discovered in July 2005, when fuel was observed seeping through the southwest basement wall of the diesel plant building. The source of the release was identified as small corrosion holes in the underground fuel piping located beneath Sherman Avenue. The piping transferred No. 5 fuel oil to the diesel plant from the 420,000-gallon AST formerly located on the southwest adjacent property. Initial response activities were conducted by Dixon Environmental Consulting (Dixon) and included the excavation and proper disposal of 443 tons of contaminated soil. The soil excavation extended west-northwest from the north side of Sherman Avenue to the southwest portion of the diesel plant building, where the pipe entered the building. Soil sampling by Dixon, after the excavation activities, showed Part 201 GRCC exceedances at two locations: xylene at SB-6 (11.5 to 12 feet bgs), outside the southwest corner of the building, and benzo(a)pyrene at F-2 (8 feet bgs), south of the building, near Sherman Avenue. Additional Part 201 GRCC exceedances were noted, but they were found in samples collected beneath Sherman Avenue. To evaluate groundwater conditions, Dixon installed monitoring wells MW-1, MW-4, MW-5, MW-6, MW-8, and MW-9 onsite, and MW-7 and MW-10 offsite to the south.

Lakeshore proposed in the work plan to install an additional monitoring well 25 feet downgradient (northwest) of MW-1 to further delineate the horizontal extent of the free phase liquid, continue to conduct free phase liquid monitoring and recovery, continue quarterly groundwater monitoring sampling, and install a deep monitoring well downgradient of MW-1 to conduct vertical profiling of the groundwater.

On November 2, 2009, Lakeshore submitted a letter to EGLE requesting the sampling frequency be reduced from quarterly to annually. The letter noted that in the quarterly sampling events that took place from September 2008 to June 2009, no free phase liquid was observed in MW-1 and MW-11. Note, MW-11 was installed downgradient of MW-1, per the 2007 Lakeshore work plan. Additionally, none of the quarterly groundwater sampling events performed since September 2008 identified detectable concentrations of the analyzed parameters (BTEX and PNAs). Therefore, Lakeshore proposed to reduce the sampling frequency to annually and to continue to monitor MW-1 and MW-11 and other relevant side and downgradient wells for potential free phase liquid. This request was approved by EGLE on December 30, 2009. EGLE stated that samples need only be collected from monitoring wells MW-1, MW-4, and MW-11 (MW-1, MW-4, and MW-11 locations are shown on the Site Map in Appendix 2), and that the groundwater samples be analyzed for PNAs (USEPA Method 8270) and a full VOC scan (USEPA Method 8260), as opposed to only BTEX.

Fishbeck reviewed the Lakeshore annual groundwater monitoring reports contained in EGLE files for years 2010 and 2012 through 2020. Note, the 2011 report was not available.

During the 2010 annual event, free phase liquid was measured at MW-1 and MW-11 at a thickness of 0.03 foot and 0.05 foot, respectively. In all the subsequent reports, a sheen was observed in MW-1 and/or MW-11; therefore, these wells were not sampled during any of the sampling events. Sample results for MW-4, directly downgradient of MW-1 and MW-11, did not identify concentrations of VOCs or PNAs above the laboratory reporting limits in any of the reports reviewed, except for the 2019 report, where 2-methylnaphthalene was detected at 6.2 µg/L. In 2020, there were no detectable concentrations of PNAs and VOCs in MW-4.

Copies of relevant EGLE-provided documents, including the text, tables, and figures of the 2007 Lakeshore status report and the 2020 annual groundwater monitoring report, are included in Appendix 8.

1995 No. 5 Fuel Oil Release – EGLE files contained an Incident Tracking Worksheet dated August 8, 1995, and a letter from GHBLP to EGLE dated September 12, 1995, regarding a release of No. 5 fuel oil. On August 8, 1995, a No. 5 fuel oil leak was discovered at the diesel plant. The leak occurred in the oil supply line running from an AST to the diesel plant. The release resulted in approximately 100 gallons of No. 5 fuel oil leaking into and accumulating in the basement of the building. The oil was found to be leaking around the pipe and insulation, carrying it to the basement of the building. The oil in the basement was collected and removed for disposal. The letter noted that no oil was found in the building drain system. Great Lakes Construction began digging up the pipeline from the basement to the tank to determine where the leak was originating. The letter indicated the leak was “adjacent to the roadway” and the broken pipe was replaced. The incident report indicated a small area of soils by the pipe insulation was stained, but no surface water or groundwater was impacted. EGLE documentation of the release is included in Appendix 8.

1994 Truck Fuel Oil Spill – EGLE files contained an April 13, 1994, Incident Tracking Worksheet and an April 14, 1994, letter from GHBLP to EGLE regarding a release of 10 to 15 gallons of diesel fuel from a truck saddle tank into the Grand River. The USCG responded to the release to the river. The truck was moved to an area that was diked, and additional diesel fuel was lost to the soil. Approximately 15 gallons of diesel fuel accumulated in the truck tire tracks was recovered and put in a waste oil tank. Additionally, an approximately 10-foot by 3-foot by 6-inch deep area of soil was impacted. The impacted soil, as well as a “good quantity” of additional soil, was removed and taken offsite for landfill disposal. The total amount of soil removed was estimated to be approximately 15 cubic yards.

Fishbeck reviewed EGLE WRD files for the diesel plant. The files contained several documents regarding the plant’s wastewater discharges to the Grand River. The discharges are permitted under NPDES Permit No. MI0058209, which allows the GHBLP to discharge noncontact cooling water, storm water runoff, and wastewater from basement building floor drains consisting of water filtration backwash overflow, engine jacket water, and

groundwater seepage to the Grand River. The discharges to the Grand River pass through an oil/water separator. EGLE inspection documents noted the plant was generally compliant with the permit conditions.

According to Mr. Cederquist, the only wastewater being discharged to the river since the plant shutdown is the groundwater that infiltrates into the basement, which discharges to Outfall 002B. Since the plant has been shut down, there is no longer a discharge to Outfall 002A, which received noncontact cooling water from engine cooling. Mr. Cederquist also indicated that outfalls were sampled monthly, and there have been no permit violations noted in the sampling results. When violations were noted by EGLE, they were generally administrative in nature and corrected in a timely manner.

MDLARA records contained inspection documents regarding the 30,000-gallon diesel fuel AST. The inspections found the GHBLP to be in compliance with the AST regulations.

GHBLP, 530 South Harbor Drive (adjacent south)

MDLARA files indicated the following tanks were registered to the GHBLP diesel plant at 518 Harbor Drive:

- Tank No. 1 – 100,000-gallon No. 2 diesel fuel UST
- Tank No. 2 – 100,000-gallon No. 2 diesel fuel UST
- Tank No. 3 – 150,000-gallon No. 2 diesel fuel UST
- Tank No. 4 – 6,000-gallon lube oil UST
- Tank No. 5 – 1,400-gallon No. 2 diesel fuel UST

Note, a site figure contained in a November 28, 1989, letter shows the former USTs were not on the Site, but on the south adjacent land, across Sherman Avenue (530 South Harbor Drive). The same property as the ASTs previously discussed. All five USTs were removed from the ground on December 6, 1989, according to the MDLARA. A release was reported to the state upon the discovery of fuel found under two of the USTs. The tanks were identified as the east tank and the west tank.

Response activities to the release were summarized in an April 3, 1990, letter from the GHBLP to the Department of State Police, Fire Marshall Division. The letter indicated that approximately 13 cubic feet of contaminated soil was removed from beneath the east tank for offsite disposal, and there was no impact to the water table underneath the east tank. Contaminated soil was also encountered beneath the west tank, and contaminated soil was removed from beneath the west tank for offsite disposal (volume of soil was not reported). Confirmation soil samples indicated the impacted soil had been removed, and both excavations were backfilled with clean fill material.

Oil was observed in the water table beneath the west tank, and initial efforts were made to clean up the impacted groundwater. A confirmation water sample collected on January 30, 1990, had a nondetectable concentration of BTEX, but contained 53.6 mg/L total petroleum hydrocarbons (TPH). Therefore, additional cleanup efforts were initiated, and the groundwater was resampled on February 2, 1990. This sample indicated TPH was below the detection limit of 1.0 mg/L. Sampling of groundwater around the east tank indicated groundwater was not impacted by the east tank release.

A May 23, 1990, letter from the GHBLP to EGLE indicated that on May 10, 1990, the GHBLP collected two additional groundwater samples for BTEX and TPH. One of the samples was collected from the Site, near the flagpole located on the corner of Harbor Drive and Sherman Avenue; the second sample was collected on the adjacent property, west of the UST removal area. Both samples were nondetect for TPH and BTEX.

Online records obtained from <http://www.mcgi.state.mi.us/environmentalmapper/>, the EGLE online database Environmental Mapper, indicated the release was closed by a Type A Evaluation on May 30, 1990.

Relevant files regarding the release are included in Appendix 8.

USCG Station (adjacent north)

A Final Groundwater Characterization Work Plan, dated October 2009, by MWH Americas, Inc. (MWH), was reviewed. The document stated that on September 11, 2001, an underground fuel line was punctured, resulting in a release of approximately 750 gallons of No. 2 diesel fuel. Response activities included the repair of the line, excavation of impacted soil, and installation of monitoring wells to assess and recover free-product.

The most recent groundwater sampling results in EGLE files were from a February 2010 event. The results indicated groundwater was not impacted by VOCs (BTEX, 1,2,4-TMB, and 1,3,5-TMB). Exceedances of Part 201 GRCC identified in the 2010 event included PNAs (fluoranthene and benzo(a)pyrene), total metals (iron, lead, and silver), and methane which exceeded the flammability/explosivity screen level in six of the monitoring wells. Groundwater flow was documented to be in a northwesterly direction, toward the Grand River and away from the Site. Therefore, impacted groundwater at the USCG site is not expected to impact the Site. A utility map provided with the 2010 sampling event indicates the presence of sanitary sewer lines, storm sewer lines, and water lines that enter the USCG property from the Site. Therefore, the elevated methane creates a VEC due to the proximity of the impacted wells (approximately 200 feet) and the potential for methane vapors to migrate towards the Site via preferential pathways (the utility corridors).

A copy of EGLE files regarding the 2010 sampling event are included in Appendix 8.

Northwest Ottawa Water Plant (approximately 330 feet southeast)

EGLE did not have any files for this site. MDLARA provided UST and AST records. On September 9, 2009, a 2,000-gallon diesel fuel UST was removed from the ground. Confirmation soil samples of the excavation and along the fuel line run indicated there had not been a release from the UST and the UST was closed.

The UST was replaced with a 2,000-gallon diesel fuel AST installed in 2010. Inspection records for the AST found the site to be in compliance with AST regulations. This site is not expected to impact the Site.

Michigan Gas Utilities (approximately 760 feet northeast)

A 2018 Annual Groundwater Monitoring Report for this site was reviewed. The report indicated groundwater at this site contains ethylbenzene and xylenes exceeding Part 201 GRCC GSIPC. Groundwater flow direction is to the northwest, away from the Site. Therefore, this site is not expected to impact the Site.

Wessel's, Inc. (1,465 feet north-northeast)

Groundwater at this site had been impacted by a release of petroleum products from a former UST system. The release was confirmed on January 4, 2000. An April 2000 LUST Initial Assessment Report completed by Prein & Newhof indicated groundwater flow direction at this site is northwest, toward the Grand River. Therefore, this site is not expected to impact the Site.

8.3 County Health Department

No information was on file for the Site at the Ottawa County Health Department.

8.4 Local Fire Department

A FOIA request was submitted to the City of Grand Haven Fire Department on September 24, 2021. However, the city issued a Notice of Extension on October 1, 2021. Therefore, the fire department records were not received prior to completion of this report. However, the fire department provided Fishbeck with a record of a smoke investigation during the 2020 Phase I ESA.

On May 31, 2018, the fire department was contacted by someone walking indicating they heard a "zip" or mini-explosion and smoke was coming from behind a large green tank (existing diesel fuel tank). Upon fire

department arrival, there was no smoke evident and a dead squirrel was found at the base of a transformer and everything appeared to be intact around the transformer. The investigation was closed.

The fire department also noted they did not have any records of petroleum product or chemical spills.

9.0 Site Reconnaissance

Mr. Thomas Budge conducted a Site reconnaissance of the Site on October 1, 2021. Dave, an employee of the City of Grand Haven Department of Public Works accompanied Fishbeck staff during the reconnaissance of the exterior areas of the Site. Fishbeck was unaccompanied during the inspection of the building interior. The reconnaissance included an inspection of interior and exterior building areas and the outside areas of the Site. Adjacent properties were viewed from the Site. Photographs taken during the reconnaissance are included in Appendix 9. The site reconnaissance was limited by a paved parking lot, the building footprint, stored materials, and equipment in the basement. It was also limited by groundwater infiltrating through the floor of the southwestern portion of the building. The gas house was locked and not inspected. The interior was viewed through windows, and the gas house appeared to only contain piping. Mr. Cederquist indicated during the 2020 Phase I ESA that no materials are stored in the gas house. The former electrical substation was surrounded by a locked fence and was viewed through the fence. A summary of observations made during the reconnaissance is provided below.

9.1 General Site Setting

The diesel plant is a large brick structure located on the western side of the Site. An asphalt public parking lot is located east of the building. A small gas house structure is located south of the diesel plant. An electrical substation is located southeast of the building, south of the parking lot. All of the transformers have been removed from the substation.

The building interior contains four levels including a basement. The second and third floors are mezzanine areas that run along the south side of the building, overlooking the first floor.

The third floor mezzanine contains fuel oil, oil, and water tanks of varying sizes. A used-oil tank is also located on the third floor. Red "Xs" have been painted on all of the petroleum product storage tanks. According to Mr. Cederquist, all of the interior oil tanks, diesel fuel tanks, and the large diesel fuel tank outside the building have been emptied; and the red "X" was painted on all of the storage tanks inside the building that were emptied. The second floor mezzanine contains an office, break room, locker room, and a former parts storage room.

The first floor contains seven diesel engines. At the time of the 2020 Phase I ESA, only Engine #1 was still operational, all others had been taken out of service. Mr. Cederquist indicated that Engine #1 is no longer operational, and all oil/fuels have been removed from Engine #1. A boiler room is located on the south side of the first floor. The boiler is dismantled and inoperable. Three "out of service" oil spinners are located on the east side of the first floor. The oil spinners were used to centrifuge impurities out of the oil. A maintenance shop and office area are also located on the first floor.

The basement contains the encased lower portions of the diesel engines, additional oil storage reservoirs and pumps, and diesel fuel reservoirs (all reported to be empty). Due to the highwater table, groundwater seeps into the basement floor. This was particularly evident in the western portion of the basement where groundwater and sand were observed entering the basement through the floor. Groundwater was also observed flowing into floor drains. Mr. Cederquist indicated that the floor drains in the basement lead to the oil/water separator. Several absorbent pads used to absorb oil were observed on the basement floor. During the 2020 Phase I ESA, a room in the southwestern corner of the building was inaccessible due to high levels of water. The room also contained high levels of water during the current reconnaissance. Mr. Cederquist indicated the room contained the base to air discharge stacks no longer in use.

9.2 Site Observations

Site Conditions	Observations
Potable Water Supply	The Site is connected to municipal water. There were no water supply wells observed.
Wastewater/Stormwater	When the plant was operational, process wastewater included noncontact cooling water, storm water runoff, and wastewater from basement building floor drains consisting of water filtration backwash overflow, engine jacket water, and groundwater seepage which was discharged to the Grand River under NPDES Permit No. MI0058209. Since plant shutdown, the only wastewater discharged is the groundwater seepage described in Section 8.2. All wastewater discharged to the river passes through an oil/water separator located west of the building. An approximate 1-inch capped steel pipe was observed leading out of the basement wall on the north side of the building. Mr. Cederquist was unsure of what this pipe was used for in the past. Sanitary wastewater is discharged to the municipal sanitary sewer system.
Drains or Sumps	Floor drains were observed in the basement. As discussed above, the drains pass through an oil/water separator before discharging to the river.
Stains, Corrosion, or Odors	General oil/water staining typical of an old building in which oils are stored and used was observed on the floors throughout the building, with significant floor staining observed in the basement. Groundwater was observed infiltrating into the basement during the reconnaissance. This is indicative of cracks in the basement floor where spilled material could potentially reach the subsurface below. The groundwater is discharged through floor drains to the oil/water separator before ultimately discharging to the Grand River. There was no excessive corrosion or unusual odors noted.
Heating Source	A natural gas-fired boiler was located on the south side of the first floor. The boiler has been dismantled and is no longer being used. Mr. Cederquist indicated electric space heaters are used, as needed, for heat.
Solid Waste/Fill Material	There was no solid waste observed. Chunks of asphalt, brick, and other debris were observed in the hillside near the former electrical substation.
Abandoned Containers	Two 55-gallon drums of water treatment chemicals were observed near one of the engines on the first floor. Two additional 55-gallon drums, one 30-gallon drum, four 5-gallon containers of water treatment chemicals, and a 50-gallon chemical feed tank with about 12 gallons of liquid were observed in the boiler room.
Pits, Ponds, Lagoons	There were no pits, ponds, or lagoons observed.
Stained Soil or Pavement	There was no stained soil or pavement observed.
Stressed Vegetation	There was no stressed vegetation observed.
Storage Tanks	Several ASTs formerly used to store various petroleum products are located inside the building on the third floor, first floor, and basement. As previously discussed, all of the ASTs have been emptied. All the ASTs appeared to be in good condition and there was no evidence of releases from the ASTs. A 30,000-gallon, double-walled AST formerly used to store diesel fuel is located outside the east side of the building (south of the parking lot). This tank is also reported to be

Site Conditions	Observations
	empty. The loading area for the 30,000-gallon AST was clean, with no evidence of releases. There were no current USTs or evidence of former USTs observed.
Hazardous Substances or Petroleum Products	Except for the containers of water treatment chemicals in or near the boiler room, there were no hazardous substances or petroleum products observed. Mr. Cederquist provided a list of oil storage that was onsite while the plant was operational. A copy of the list is included in Appendix 9.
Hazardous and Nonhazardous waste	There was no hazardous waste observed, nor do site operations generate hazardous waste. One 55-gallon drum of oil absorbents was observed in a stairway leading out of the basement on the northeast corner of the building.
Presence of Potential PCB-Containing Equipment (older hydraulic equipment/electrical transformers)	Mr. Cederquist indicated testing was done on site transformers in the early 2000s and they were found not to contain PCBs. However, the electrical substation located east of the plant has been present since at least 1962. Therefore, the potential for PCB-containing oil to have been released from the transformer to the soils beneath exists.
Environmental Permits	As previously discussed, the GHBLP discharges wastewater to the Grand River under NPDES Discharge Permit No. MI0058209. Air discharges were regulated under EGLE Permit to Install No. 161-14. However, Mr. Cederquist indicated this permit has since been voided. The AST is registered with EGLE, Facility ID No. 91084753. There did not appear to be any additional environmental permits required for the Site. However, a comprehensive environmental compliance audit was not included in the scope of this Phase I ESA.

10.0 Interviews

10.1 Interview with Key Site Personnel

The Site is owned by the City of Grand Haven. Mr. Cederquist serves as the GHBLP Environmental Compliance Specialist and is familiar with the operations on the Site. Therefore, Mr. Cederquist was interviewed by phone on October 7, 2021, regarding the environmental conditions associated with the Site. Mr. Cederquist has worked for the GHBLP for approximately 10.5 years. Mr. Cederquist confirmed many of his answers from the interview conducted on December 26, 2019. As summarized throughout this report, Mr. Cederquist discussed measures that were taken to close the plant, including emptying of storage tanks, changes to wastewater discharges, voiding permits, etc. Mr. Cederquist was unaware of any large spills or releases that would have impacted the environment, except for the 2005 release, which is well documented.

A copy of the interview questions and answers is in Appendix 10.

10.2 Interviews with Occupants

The Site is currently unoccupied.

10.3 Interviews with Others

No other individuals were identified for an interview regarding the Site.

Local and state governmental agency files were obtained through FOIA requests and the files were reviewed by Fishbeck staff. No questions arose from the file reviews that would require an interview with the government agencies.

11.0 Findings and Opinions

The Site is currently owned by the City of Grand Haven and contains the GHBLP diesel plant that was used for peak shaving electricity generation. The plant was retired on June 1, 2020, and it is no longer operational. The Site consists of approximately two acres containing an approximate 10,200-square-foot building and a public parking lot. The building contains seven diesel engines that have all been taken out of service.

The building interior contains four levels including a basement. The third and second floors are mezzanine areas that run along the south side of the building, overlooking the first floor. Several ASTs formerly used to store various petroleum products are located inside the building on the third floor, first floor, and basement. All of these tanks have reportedly been emptied. A 30,000-gallon double-wall diesel fuel AST is located east of the plant. This tank is also reported to be empty. Some leftover water treatment chemicals were observed on the first floor, near one of the engines and in the boiler room. These same areas were observed during the January 2020 Phase I ESA conducted by Fishbeck, while the plant was operational. At that time, the petroleum products and hazardous substances used and stored on the Site appeared to be properly managed and stored within the building, and the exterior AST also appeared to be in good condition.

The basement floor appeared heavily stained from years of plant operations. Additionally, during the reconnaissance, several absorbent pads were observed on the basement floor and groundwater was observed infiltrating the basement. This is indicative of cracks in the basement floor where spilled material could potentially reach the subsurface below. The potential for the subsurface beneath the basement to be impacted by petroleum products or hazardous substances is considered a REC. The potential release of fuel oils to the subsurface also creates the potential for vapor intrusion into the building.

An unidentified, approximate 1-inch capped steel pipe was observed leading out of the basement wall on the north side of the building. The former use of this pipe is unknown. The potential for this pipe to have been used to transport petroleum products, and to have leaked to the subsurface outside the plant is considered a REC.

In 2005, a release of No. 5 fuel oil was discovered. The source of the release was identified as small corrosion holes in an underground fuel line leading from a former AST (located on the southwest adjacent property) to the diesel plant. Initial response activities included the excavation of impacted soils on the Site and the installation of groundwater monitoring wells to assess groundwater quality and to monitor the presence of free-phase liquid. Soil analytical results from samples collected after the excavation activities were completed indicated the presence of xylene and benzo(a)pyrene remained on the Site at concentrations exceeding Part 201 GRCC. Xylene was detected at SB-6 (11.5 to 12 feet bgs), outside the southwest corner of the building, and benzo(a)pyrene at F-2 (8 feet bgs), south of the building near Sherman Avenue.

Annual groundwater sampling reports were reviewed for the years 2010 and 2012 through 2020. Note, the 2011 report was not available. Sample results in any of the annual reports did not identify concentrations of VOCs or PNAs above the laboratory reporting limits, except for the 2019 report where 2-methylnaphthalene was detected at 6.2 µg/L. Note, the only well sampled during the annual events was MW-4, as a sheen was generally noted in MW-1 and/or MW-11 during the sampling event. Annual sampling will be continued in 2021, and the release has not been closed by EGLE. Therefore, this condition is considered a REC.

EGLE files also contained documentation regarding two additional releases of petroleum product on the Site; a 1995 release of No. 5 fuel oil from a buried oil supply line, and a truck fuel oil spill. The documentation indicated both releases were immediately addressed; neither release was reported to have impacted groundwater, and response activities consisted of the excavation and offsite disposal of impacted soils. Therefore, these incidental releases are considered *de minimis*, and are not a REC.

The EDR database report identifies the Site as a closed UST site, with the following registered USTs:

- Tank No. 1 – 100,000-gallon No. 2 diesel fuel UST
- Tank No. 2 – 100,000-gallon No. 2 diesel fuel UST
- Tank No. 3 – 150,000-gallon No. 2 diesel fuel UST
- Tank No. 4 – 6,000-gallon lube oil UST
- Tank No. 5 – 1,400-gallon No. 2 diesel fuel UST

A review of EGLE and MDLARA files indicated these USTs were formerly located at 530 South Harbor Drive, which is listed in EDR as a closed LUST site. The tanks were removed from the ground in 1989, and a release was reported when impacted soil was discovered beneath two of the USTs, identified as the east tank and west tank. Oil was also observed on the water table beneath the west tank. Response activities, including soil excavation and groundwater cleanup activities, were conducted and the site was closed by a Type A Evaluation on May 30, 1990. This condition is not considered a REC.

An electrical substation is located on the southeastern portion of the Site. All of the transformers have been removed from the substation. Mr. Cederquist indicated testing was done on site transformers in the early 2000s and they were found not to contain PCBs. However, the electrical substation located east of the plant has been present since at least 1962. Therefore, the potential for PCB-containing oil to have been released from the transformer to the soils beneath exists. This condition is considered a REC.

Historical records indicate that a coal-fired power plant and coal storage area were formerly located on the east side of the Site, approximately where the current parking lot exists. The potential for soil and/or groundwater to be impacted by the historical storage and use of coal is considered a REC.

EGLE and MDLARA files were reviewed for nearby sites considered to have a reasonable potential to impact the Site. Based on the file review, impacted groundwater from these sites do not appear to have the potential to impact the Site due to the influence of the Grand River on groundwater flow. Therefore, these sites do not create a REC. However, methane has been detected exceeding the flammability/explosivity screen level in six of the monitoring wells on the USCG station site, located adjacent north, across South Harbor Drive. Groundwater flow has been documented to be to the northwest, toward the Grand River, which borders the USCG site. However, the elevated methane concentrations in groundwater creates the potential for vapor intrusion into the Site building due to the proximity of the impacted wells (approximately 200 feet) and the potential for methane vapors to migrate towards the Site via preferential pathways, i.e., the utility corridors that are shown to run from the Site to the USCG site.

12.0 Data Gap Analysis

Fishbeck was unable to determine the first developed use of the Site and was, therefore, unable to achieve the historical research objectives identified in the ASTM standard, even after reviewing the standard historical resources identified in the ASTM standard that were reasonably ascertainable and likely to be useful. Based on our knowledge of the historic developed uses, this data failure is not considered likely to have a material impact upon the findings and conclusions of this report. Therefore, this data failure is not considered a significant data gap.

The lack of a title search for recorded environmental liens and activity use limitations is a data failure. CL Real Estate is not aware of any environmental liens or activity use limitations on the Site, and the report provided by EDR did not find any activity and use limitations listed for the Site. Fishbeck reviewed the EGLE online database Environmental Mapper (<http://www.mcgi.state.mi.us/environmentalmapper/>) for any land use or activities restrictions for the Site. Therefore, this data failure is not considered a significant data gap.

During the site reconnaissance, areas of the basement were not accessible due to the presence of groundwater that had entered the basement through the floor, limiting the extent of the site reconnaissance. This data failure is considered a significant data gap.

13.0 Conclusions

Fishbeck has performed a Phase I ESA in conformance with the scope and limitations of the ASTM Standard at the GHBLP Diesel Plant, 518 South Harbor Drive, Grand Haven, Ottawa County, Michigan, the Site. Any exceptions to, or deletions from, this practice are described in the Limitations and Exceptions section of this report. This assessment has revealed no evidence of RECs in connection with the Site, except the following:

- A. Based on site observations, the basement of the diesel plant building is heavily stained, and the presence of several absorbent mats indicate current incidental and historical releases of petroleum products to the basement floor. Groundwater was observed infiltrating into the basement during the reconnaissance. This is indicative of cracks in the basement floor where spilled material could potentially reach the subsurface below.
- B. The Site is listed as an EGLE Inventory/Part 201 site as the result of a 2005 release of No. 5 fuel oil from a buried transfer line, from an offsite former AST to the building. Historical investigations identified the presence of xylene and benzo(a)pyrene in site soils. Annual groundwater sampling events indicate the groundwater has not been impacted by BTEX or PNAs; however, a sheen has routinely been observed in monitoring wells located west of the building.
- C. An electrical substation has been present southeast of the building since at least 1962. Current information indicates the transformers onsite do not contain PCBs. Potentially, PCB-containing transformer oil may have been released to the soils in the substation area from past undocumented releases.
- D. Historical records indicate that a coal-fired power plant and a coal storage area was formerly located on the east side of the Site, approximately where the current parking lot exists. Soil and/or groundwater may be impacted by the past use and storage of coal.
- E. An unidentified approximate 1-inch capped steel pipe was observed leading out of the basement wall on the north side of the building. The former use of this pipe is unknown. There is a potential for this pipe to have been used to transport petroleum products, and to have leaked to the subsurface outside the plant.

14.0 Deviations

In the process of conducting this Phase I ESA, the following deviations were made from the ASTM Standard:

- A. The State of Michigan does not publish two separate lists that are directly comparable to the NPL and CERCLIS listings. Michigan compiles a List of Contaminated Sites (Part 201 sites, Inventory sites, and/or BEA sites) which includes both sites that have been investigated and those requiring investigation. This one list serves the purpose of both the CERCLIS and NPL lists on a state level.
- B. In an effort to provide a more concise and usable document, Fishbeck has deviated from the report format recommended in the ASTM Standard. The Fishbeck format is cross referenced to the ASTM Standard format on a checklist provided in Appendix 11.

15.0 Additional Services

No additional services were requested as part of this Phase I ESA.

16.0 References

ASTM Standard E 1527-13, *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process*.

The EDR Radius Map with GeoCheck®, Former Grand Haven BLP Diesel Plant, 518 South Harbor Drive, Grand Haven, MI 49417, September 24, 2021.

Aerial Photograph; *The EDR Aerial Photo Decade Package*, 518 South Harbor Drive, Grand Haven, MI 49417, December 27, 2019.

Fire Insurance Maps; *Certified Sanborn® Map Report*, 518 South Harbor Drive, Grand Haven, MI 49417, December 24, 2019.

City Directories dated; *The EDR-City Directory Image Report*, 518 South Harbor Drive, Grand Haven, MI 49417, December 30, 2019.

Historical Topographic Maps; *EDR Historical Topo Map Report*, 518 South Harbor Drive, Grand Haven, MI 49417, December 23, 2019.

EGLE GeoWebFace database (<http://ww2.deq.state.mi.us/GeoWebFace/>), Accessed October 6, 2021.

USDA, Natural Resources Conservation Service, (<http://websoilsurvey.nrcs.usda.gov/app/>) *Web Soil Survey*, Accessed October 6, 2021.

EGLE Environmental Mapper database (<http://www.mcgi.state.mi.us/environmentalmapper/>), Accessed October 6, 2021.

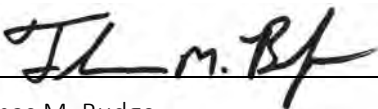
17.0 Signatures of Environmental Professionals

We declare that, to the best of our professional knowledge and belief, we meet the definition of an Environmental Professional, as defined in 40 CFR §312.10.

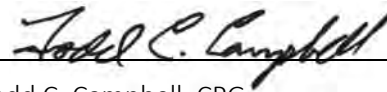
We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Site. We have developed and performed the *all appropriate inquiries* in conformance with the standards and practices set forth in 40 CFR Part 312.

Assessment Conducted By:

Assessment Reviewed By:



Thomas M. Budge



Todd C. Campbell, CPG

Qualification statements for the Fishbeck personnel responsible for conducting this Phase I ESA are provided as Appendix 12.

Appendix 1

abandoned property—*property* that can be presumed to be deserted, or an intent to relinquish possession or control can be inferred from the general disrepair or lack of activity thereon such that a reasonable person could believe that there was an intent on the part of the current *owner* to surrender rights to the *property*.

activity and use limitations—legal or physical restrictions or limitations on the use of, or access to, a site or facility:

(1) to reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil, soil vapor, groundwater, and/or surface water on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. These legal or physical restrictions, which may include institutional and/or *engineering controls*, are intended to prevent adverse impacts to individuals or populations that may be exposed to *hazardous substances* and *petroleum products* in the soil, soil vapor, groundwater, and/or surface water on the *property*. See Note 1.

NOTE 1—The term *AUL* is taken from Guide E2091 to include both legal (that is, institutional) and physical (that is, engineering) controls within its scope. Other agencies, organizations, and jurisdictions may define or utilize these terms differently (for example, EPA and California do not include physical controls within their definitions of “*institutional controls*.” Department of Defense and International County/City Management Association use “*Land Use Controls*.” The term “*land use restrictions*” is used but not defined in the *Brownfields Amendments*).

actual knowledge—the knowledge actually possessed by an individual who is a real person, rather than an entity. *Actual knowledge* is to be distinguished from constructive knowledge that is knowledge imputed to an individual or entity.

adjoining properties—any real *property* or properties the border of which is contiguous or partially contiguous with that of the *property*, or that would be contiguous or partially contiguous with that of the *property* but for a street, road, or other public thoroughfare separating them.

aerial photographs—photographs taken from an aerial platform with sufficient resolution to allow identification of development and activities of areas encompassing the *property*. *Aerial photographs* are often available from government agencies or private collections unique to a local area. See 8.3.4.1 of this practice.

all appropriate inquiries—that inquiry constituting *all appropriate inquiries* into the previous ownership and uses of the *property* consistent with good commercial and customary practice as defined in CERCLA, 42 U.S.C §9601(35)(B), that will qualify a party to a *commercial real estate transaction* for one of the threshold criteria for satisfying the *LLPs* to CERCLA liability (42 U.S.C §9601(35)(A) & (B), §9607(b)(3), §9607(q); and §9607(r)), assuming compliance with other elements of the defense. See Appendix X1 of this practice.

approximate minimum search distance—the area for which records must be obtained and reviewed pursuant to Section 8 subject to the limitations provided in that section. This may include areas outside the *property* and shall be measured from the nearest *property* boundary. This term is used in lieu of radius to include irregularly shaped properties.

bona fide prospective purchaser liability protection—(42 U.S.C. §9607(r))—a person may qualify as a bona fide prospective purchaser if, among other requirements, such person made “all appropriate inquiries into the previous ownership and uses of the facility in accordance with generally accepted good commercial and customary standards and practices.” Knowledge of contamination resulting from *all appropriate inquiries* would not generally preclude this liability protection. A person must make *all*

appropriate inquiries on or before the date of purchase. The facility must have been purchased after January 11, 2002. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

Brownfields Amendments—amendments to CERCLA pursuant to the Small Business Liability Relief and Brownfields Revitalization Act, Pub. L. No. 107-118 (2002), 42 U.S.C. §§9601 *et seq.*

building department records—those records of the local government in which the *property* is located indicating permission of the local government to construct, alter, or demolish improvements on the *property*. Often *building department records* are located in the building department of a municipality or county. See 8.3.4.7 of this practice.

business environmental risk—a risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate, not necessarily limited to those environmental issues required to be investigated in this practice. Consideration of business environmental risk issues may involve addressing one or more non-scope considerations, some of which are identified in Section 13.

commercial real estate—any real *property* except a *dwelling* or *property* with no more than four *dwelling* units exclusively for residential use (except that a *dwelling* or *property* with no more than four *dwelling* units exclusively for residential use is included in this term when it has a commercial function, as in the building of such *dwellings* for profit). This term includes but is not limited to undeveloped real *property* and real *property* used for industrial, retail, office, agricultural, other commercial, medical, or educational purposes; *property* used for residential purposes that has more than four residential *dwelling* units; and *property* with no more than four *dwelling* units for residential use when it has a commercial function, as in the building of such *dwellings* for profit.

commercial real estate transaction—a transfer of title to or possession of real *property* or receipt of a security interest in real *property*, except that it does not include transfer of title to or possession of real *property* or the receipt of a security interest in real *property* with respect to an individual *dwelling* or building containing fewer than five *dwelling* units, nor does it include the purchase of a lot or lots to construct a *dwelling* for occupancy by a purchaser, but a *commercial real estate* transaction does include real *property* purchased or leased by persons or entities in the business of building or developing *dwelling* units.

Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS)—the list of sites compiled by EPA that EPA has investigated or is currently investigating for potential *hazardous substance* contamination for possible inclusion on the *National Priorities List*.

construction debris—concrete, brick, asphalt, and other such building materials discarded in the construction of a building or other improvement to *property*.

contaminated public wells—public wells used for drinking water that have been designated by a government entity as contaminated by *hazardous substances* (for example, chlorinated *solvents*), or as having water unsafe to drink without treatment.

contiguous property owner liability protection—(42 U.S.C. §9607(q))—a person may qualify for the *contiguous property owner liability protection* if, among other requirements, such person owns real *property* that is contiguous to, and that is or may be contaminated by hazardous substances from other real *property* that is not owned by that person. Furthermore, such person conducted all appropriate inquiries at the time of acquisition of the *property* and did not know or have reason to know that the *property* was or could be contaminated by a release or threatened *release* from the contiguous *property*. The *all appropriate inquiries* must not result in knowledge of contamination. If it does, then such person

did “know” or “had reason to know” of contamination and would not be eligible for the *contiguous property owner liability protection*. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

controlled recognized environmental condition (CREC)—a *recognized environmental condition* resulting from a past *release of hazardous substances or petroleum products* that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by regulatory authority), with *hazardous substances or petroleum products* allowed to remain in place subject to the implementation of required controls (for example, *property use restrictions, activity and use limitations, institutional controls, or engineering controls*). (See Note 2.) A condition considered by the *environmental professional* to be a *controlled recognized environmental condition* shall be listed in the findings section of the *Phase I Environmental Site Assessment report*, and as a *recognized environmental condition* in the conclusions section of the *Phase I Environmental Site Assessment report*. (See Note 3.)

NOTE 2—For example, if a leaking underground storage tank has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria, this would be considered a controlled recognized environmental condition. The “control” is represented by the restriction that the property use remain commercial.

NOTE 3—A condition identified as a controlled recognized environmental condition does not imply that the environmental professional has evaluated or confirmed the adequacy, implementation, or continued effectiveness of the required control that has been, or is intended to be, implemented.

CORRACTS list—a list maintained by EPA of *hazardous waste* treatment, storage, or disposal facilities and other RCRA-regulated facilities (due to past interim status or storage of *hazardous waste* beyond 90 days) that have been notified by the U.S. Environmental Protection Agency to undertake corrective action under RCRA. The *CORRACTS list* is a subset of the EPA database that manages RCRA data.

data failure—a failure to achieve the historical research objectives in 8.3.1 through 8.3.2.2 even after reviewing the *standard historical sources* in 8.3.4.1 through 8.3.4.8 that are *reasonably ascertainable* and likely to be useful. *Data failure* is one type of *data gap*. See 8.3.2.3.

data gap—a lack of or inability to obtain information required by this practice despite *good faith* efforts by the *environmental professional* to gather such information. *Data gaps* may result from incompleteness in any of the activities required by this practice, including, but not limited to *site reconnaissance* (for example, an inability to conduct the *site visit*), and *interviews* (for example, an inability to interview the *key site manager*, regulatory officials, etc.). See 12.7 of this practice.

de minimis condition—a condition that generally does not present a threat to human health or the *environment* and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis conditions* are not *recognized environmental conditions* nor *controlled recognized environmental conditions*.

demolition debris—concrete, brick, asphalt, and other such building materials discarded in the demolition of a building or other improvement to *property*.

drum—a container (typically, but not necessarily, holding 55 gal (208 L) of liquid) that may be used to store *hazardous substances or petroleum products*.

dry wells—underground areas where soil has been removed and replaced with pea gravel, coarse sand, or large rocks. *Dry wells* are used for drainage, to control storm runoff, for the collection of spilled liquids (intentional and nonintentional) and *wastewater* disposal (often illegal).

due diligence—the process of inquiring into the environmental characteristics of a parcel of *commercial real estate* or other conditions, usually in connection with a *commercial real estate* transaction. The degree and kind of *due diligence* vary for different properties and differing purposes. See Appendix X1 of this practice.

dwelling—structure or portion thereof used for residential habitation.

engineering controls (EC)—physical modifications to a site or facility (for example, capping, slurry walls, or point of use water treatment) to reduce or eliminate the potential for exposure to *hazardous substances* or *petroleum products* in the soil or groundwater on the *property*. Engineering controls are a type of activity and use limitation (AUL).

environment—environment shall have the same meaning as the definition of environment in CERCLA 42 U.S.C. § 9601(8)). For additional background information, see Legal Appendix (Appendix X1 of this practice) to Section XI. 1.1 “Releases and Threatened Release.”

environmental compliance audit—the investigative process to determine if the operations of an existing facility are in compliance with applicable environmental laws and regulations. This term should not be used to describe this practice, although an *environmental compliance audit* may include an *environmental site assessment* or, if prior audits are available, may be part of an *environmental site assessment*.

environmental lien—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 U.S.C. §§9607(1) & 9607(r) and similar state or local laws.

environmental professional—a person meeting the education, training, and experience requirements as set forth in 40 CFR §312.10(b). For the convenience of the reader, this section is reprinted in Appendix X2. The person may be an independent contractor or an employee of the *user*.

environmental site assessment (ESA)—the process by which a person or entity seeks to determine if a particular parcel of real *property* (including improvements) is subject to *recognized environmental conditions*. At the option of the *user*, an *environmental site assessment* may include more inquiry than that constituting *all appropriate inquiries* or, if the *user* is not concerned about qualifying for the *LLPs*, less inquiry than that constituting *all appropriate inquiries*. An *environmental site assessment* is both different from and often less rigorous than an *environmental compliance audit*.

ERNS list—EPA’s emergency response notification system list of reported CERCLA *hazardous substance releases* or spills in quantities greater than the reportable quantity, as maintained at the National Response Center. Notification requirements for such *releases* or spills are codified in 40 CFR Parts 302 and 355.

Federal Register (FR)—publication of the United States government published daily (except for federal holidays and weekends) containing all proposed and final regulations and some other activities of the federal government. When regulations become final, they are included in the Code of Federal Regulations (CFR), as well as published in the *Federal Register*.

fill dirt—dirt, soil, sand, or other earth, that is obtained offsite, that is used to fill holes or depressions, create mounds, or otherwise artificially change the grade or elevation of real *property*. It does not include material that is used in limited quantities for normal landscaping activities.

fire insurance maps—maps produced for private fire insurance map companies that indicate uses of properties at specified dates and that encompass the *property*. These maps are often available at local libraries, historical societies, private resellers, or from the map companies who produced them.

good faith—the absence of any intention to seek an unfair advantage or to defraud another party; an honest and sincere intention to fulfill one’s obligations in the conduct or transaction concerned.

hazardous substance—a substance defined as a *hazardous substance* pursuant to CERCLA 42 U.S.C. §9601(14), as interpreted by EPA regulations and the courts:“ (A) any substance designated pursuant to Section 1321(b)(2)(A) of Title 33, (B) any element, compound, mixture, solution, or substance designated pursuant to Section 9602 of this title, (C) any *hazardous waste* having the characteristics identified under or listed pursuant to Section 3001 of the Resource Conservation and Recovery Act of 1976 (RCRA), as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901 *et seq.*) has been suspended by Act of Congress), (D) any toxic pollutant listed under Section 1317(a) of Title 33, (E) any hazardous air pollutant listed under Section 112 of the Clean Air Act (42 U.S.C. §7412), and (F) any imminently hazardous chemical substance or mixture with respect to which the Administrator (of EPA) has taken action pursuant to Section 2606 of Title 15. The term does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).” (See Appendix X1 of this practice.)

hazardous waste—any *hazardous waste* having the characteristics identified under or listed pursuant to Section 3001 of RCRA, as amended, (42 U.S.C. §6921) (but not including any waste the regulation of which under RCRA (42 U.S.C. §§6901-6992k) has been suspended by Act of Congress). RCRA is sometimes also identified as the Solid Waste Disposal Act. RCRA defines a *hazardous waste*, at 42 U.S.C. §6903, as: “a solid waste, or combination of solid wastes, which because of its quantity, concentration, or physical, chemical, or infectious characteristics may—(A) cause, or significantly contribute to an increase in mortality or an increase in serious irreversible, or incapacitating reversible, illness; or (B) pose a substantial present or potential hazard to human health or the environment when improperly treated, stored, transported, or disposed of, or otherwise managed.”

hazardous waste/contaminated sites—sites on which a *release* has occurred, or is suspected to have occurred, of any *hazardous substance*, *hazardous waste*, or *petroleum products*, and that *release* or suspected *release* has been reported to a government entity.

historical recognized environmental condition (HREC)—a past *release* of any *hazardous substances* or *petroleum products* that has occurred in connection with the *property* and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the *property* to any required controls (for example, *property* use restrictions, *activity and use limitations*, *institutional controls*, or *engineering controls*). Before calling the past *release* a *historical recognized environmental condition*, the *environmental professional* must determine whether the past *release* is a *recognized environmental condition* at the time the *Phase I Environmental Site Assessment* is conducted (for example, if there has been a change in the regulatory criteria). If the EP considers the past *release* to be a *recognized environmental condition* at the time the Phase I ESA is conducted, the condition shall be included in the conclusions section of the report as a *recognized environmental condition*.

IC/EC registries—databases of *institutional controls* or *engineering controls* that may be maintained by a federal, state or local environmental agency for purposes of tracking sites that may contain residual contamination and AULs. The names for these may vary from program to program and state to state, and include terms such as Declaration of Environmental Use Restriction database (Arizona), list of “deed restrictions” (California), environmental real covenants list (Colorado), brownfields site list (Indiana, Missouri) and the Pennsylvania Activity and Use Limitation (PA AUL) Registry.

innocent landowner defense—(42 U.S.C. §§9601(35) & 9607(b)(3))—a person may qualify as one of three types of innocent landowners: (i) a person who “did not know and had no reason to know” that contamination existed on the property at the time the purchaser acquired the property; (ii) a government entity which acquired the property by escheat, or through any other involuntary transfer or acquisition, or through the exercise of eminent domain authority by purchase or condemnation; and (iii) a person who “acquired the facility by inheritance or bequest.” To qualify for the innocent landowner defense, such person must have made all appropriate inquiries on or before the date of purchase. Furthermore, the all appropriate inquiries must not have resulted in knowledge of the contamination. If it does, then such person did “know” or “had reason to know” of contamination and would not be eligible for the innocent landowner defense. See Appendix X1 for the other necessary requirements that are beyond the scope of this practice.

institutional controls (IC)—a legal or administrative restriction (for example, “deed restrictions,” restrictive covenants, easements, or zoning) on the use of, or access to, a site or facility to (1) reduce or eliminate potential exposure to *hazardous substances* or *petroleum products* in the soil or groundwater on the *property*, or (2) to prevent activities that could interfere with the effectiveness of a response action, in order to ensure maintenance of a condition of no significant risk to public health or the environment. An *institutional control* is a type of *Activity and Use Limitation (AUL)*.

interviews—those portions of this practice that are contained in Section 10 and 11 thereof and address questions to be asked of past and present *owners*, *operators*, and *occupants* of the *property* and questions to be asked of local government officials.

key site manager—the person identified by the *owner* or *operator* of a *property* as having good knowledge of the uses and physical characteristics of the *property*. See 10.5.1 of this practice.

landfill—a place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *solid waste disposal site* and is also known as a garbage dump, trash dump, or similar term.

Landowner Liability Protections (LLPs)—*landowner liability protections* under CERCLA; these protections include the *bona fide prospective purchaser liability protection*, *contiguous property owner liability protection*, and *innocent landowner defense* from CERCLA liability. See 42 U.S.C. §§9601(35)(A), 9601(40), 9607(b), 9607(q), 9607(r).

local government agencies—those agencies of municipal or county government having jurisdiction over the *property*. Municipal and county government agencies include but are not limited to cities, parishes, townships, and similar entities.

local street directories—directories published by private (or sometimes government) sources that show ownership, occupancy, and/or use of sites by reference to street addresses. Often *local street directories* are available at libraries, or historical societies, and/or local municipal offices. See 8.3.4.6 of this practice.

LUST sites—state lists of leaking *underground storage tank* sites. RCRA gives EPA and states, under cooperative agreements with EPA, authority to clean up *releases* from UST systems or require *owners* and *operators* to do so. (42 U.S.C. §6991b).

major occupants—those tenants, subtenants, or other persons or entities each of which uses at least 40% of the leasable area of the *property* or any anchor tenant when the *property* is a shopping center.

material safety data sheet (MSDS)—written or printed material concerning a *hazardous substance* which is prepared by chemical manufacturers, importers, and employers for hazardous chemicals pursuant to OSHA’s Hazard Communication Standard, 29 CFR §1910.1200.

material threat—a physically observable or *obvious* threat which is reasonably likely to lead to a *release* that, in the opinion of the *environmental professional*, is threatening and might result in impact to public health or the environment. An example might include an aboveground storage tank system that contains a *hazardous substance* and which shows evidence of damage. The damage would represent a *material threat* if it is deemed serious enough that it may cause or contribute to tank integrity failure with a *release* of contents to the *environment*.

migrate/migration—for the purposes of this practice, “migrate” and “migration” refers to the movement of *hazardous substances* or *petroleum products* in any form, including, for example, solid and liquid at the surface or subsurface, and vapor in the subsurface. See Note 4.

NOTE 4—Vapor migration in the subsurface is described in Guide E2600; however, nothing in this practice should be construed to require application of the Guide E2600 standard to achieve compliance with all appropriate inquiries.

National Contingency Plan (NCP)—the National Oil and Hazardous Substances Pollution Contingency Plan, found at 40 CFR Part 300, that is the EPA’s blueprint on how *hazardous substances* are to be cleaned up pursuant to CERCLA.

National Priorities List (NPL)—list compiled by EPA pursuant to CERCLA 42 U.S.C. §9605(a)(8)(B) of properties with the highest priority for cleanup pursuant to EPA’s Hazard Ranking System. See 40 CFR Part 300.

obvious—that which is plain or evident; a condition or fact that could not be ignored or overlooked by a reasonable observer while visually or physically observing the *property*.

occupants—those tenants, subtenants, or other persons or entities using the *property* or a portion of the *property*.

operator—the person responsible for the overall operation of a facility.

other historical sources—any source or sources other than those designated in 8.3.4.1 through 8.3.4.8 that are credible to a reasonable person and that identify past uses of the *property*. The term includes, but is not limited to: miscellaneous maps, newspaper archives, internet sites, community organizations, local libraries, historical societies, current *owners* or *occupants* of neighboring properties, and records in the files and/or personal knowledge of the *property owner* and/or *occupants*. See 8.3.4.9 of this practice.

owner—generally the fee *owner* of record of the *property*.

petroleum exclusion—the exclusion from CERCLA liability provided in 42 U.S.C. §9601(14), as interpreted by the courts and EPA: “The term (*hazardous substance*) does not include petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under subparagraphs (A) through (F) of this paragraph, and the term does not include natural gas, natural gas liquids, liquefied natural gas, or synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas).”

petroleum products—those substances included within the meaning of the *petroleum exclusion* to CERCLA, 42 U.S.C. §9601(14), as interpreted by the courts and EPA, that is: petroleum, including crude oil or any fraction thereof which is not otherwise specifically listed or designated as a *hazardous substance* under Subparagraphs (A) through (F) of 42 U.S.C. § 9601(14), natural gas, natural gas liquids, liquefied natural gas, and synthetic gas usable for fuel (or mixtures of natural gas and such synthetic gas). (The word fraction refers to certain distillates of crude oil, including gasoline, kerosene, diesel oil, jet fuels, and fuel oil, pursuant to Standard Definitions of Petroleum Statistics.4)

Phase I Environmental Site Assessment—the process described in this practice.

physical setting sources—sources that provide information about the geologic, hydrogeologic, hydrologic, or topographic characteristics of a *property*. See 8.2.4. 3.2.68 of this practice.

pits, ponds, or lagoons—man-made or natural depressions in a ground surface that are likely to hold liquids or sludge containing *hazardous substances* or *petroleum products*. The likelihood of such liquids or sludge being present is determined by evidence of factors associated with the pit, pond, or lagoon, including, but not limited to, discolored water, distressed vegetation, or the presence of an *obvious wastewater* discharge.

practically reviewable—information that is *practically reviewable* means that the information is provided by the source in a manner and in a form that, upon examination, yields information relevant to the *property* without the need for extraordinary analysis of irrelevant data. The form of the information shall be such that the *user* can review the records for a limited geographic area. Records that cannot be feasibly retrieved by reference to the location of the *property* or a geographic area in which the *property* is located are not generally *practically reviewable*. Most databases of public records are *practically reviewable* if they can be obtained from the source agency by the county, city, zip code, or other geographic area of the facilities listed in the record system. Records that are sorted, filed, organized, or maintained by the source agency only chronologically are not generally *practically reviewable*. Listings in *publicly available* records which do not have adequate address information to be located geographically are not generally considered *practically reviewable*. For large databases with numerous records (such as RCRA hazardous waste generators and registered *underground storage tanks*), the records are not *practically reviewable* unless they can be obtained from the source agency in the smaller geographic area of zip codes. Even when information is provided by zip code for some large databases, it is common for an unmanageable number of sites to be identified within a given zip code. In these cases, it is not necessary to review the impact of all of the sites that are likely to be listed in any given zip code because that information would not be *practically reviewable*. In other words, when so much data is generated that it cannot be feasibly reviewed for its impact on the *property*, it is not *practically reviewable*.

property—the real *property* that is the subject of the *environmental site assessment* described in this practice. Real *property* includes buildings and other fixtures and improvements located on the *property* and affixed to the land.

property tax files—the files kept for *property* tax purposes by the local jurisdiction where the *property* is located and may include records of past ownership, appraisals, maps, sketches, photos, or other information that is *reasonably ascertainable* and pertaining to the *property*. See 8.3.4.3 of this practice.

publicly available—information that is *publicly available* means that the source of the information allows access to the information by anyone upon request.

RCRA generators—those persons or entities that generate *hazardous wastes*, as defined and regulated by RCRA.

RCRA generators list—list kept by EPA of those persons or entities that generate *hazardous wastes* as defined and regulated by RCRA.

RCRA TSD facilities—those facilities on which treatment, storage, and/or disposal of *hazardous wastes* takes place, as defined and regulated by RCRA.

RCRA TSD facilities list—list kept by EPA of those facilities on which treatment, storage, and/or disposal of *hazardous wastes* takes place, as defined and regulated by RCRA.

reasonably ascertainable—information that is (1) *publicly available*, (2) obtainable from its source within reasonable time and cost constraints, and (3) *practically reviewable*.

recognized environmental conditions—the presence or likely presence of any *hazardous substances* or *petroleum products* in, on, or at a *property*: (1) due to release to the environment; (2) under conditions indicative of a *release* to the *environment*; or (3) under conditions that pose a *material threat* of a future *release* to the *environment*. *De minimis conditions* are not *recognized environmental conditions*.

recorded land title records—records of historical fee ownership, which may include leases, land contracts, and AULs on or of the *property* recorded in the place where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located. (Often such records are kept by a municipal or county recorder or clerk.) Such records may be obtained from title companies or directly from the local government agency. Information about the title to the *property* that is recorded in a U.S. district court or any place other than where land title records are, by law or custom, recorded for the local jurisdiction in which the *property* is located, are not considered part of *recorded land title records*. See 8.3.4.4 of this practice.

records of emergency release notifications EPCRA—(42 U.S.C. §11004)—requires *operators* of facilities to notify their local emergency planning committee (as defined in EPCRA) and state emergency response commission (as defined in EPCRA) of any *release* beyond the facility's boundary of any reportable quantity of any extremely *hazardous substance*. Often the local fire department is the local emergency planning committee. Records of such notifications are "Records of Emergency Release Notifications" (42 U.S.C. 11004).

records review—that part that is contained in Section 8 of this practice that addresses which records shall or may be reviewed.

release—a *release* of any *hazardous substance* or *petroleum product* shall have the same meaning as the definition of "release" in CERCLA 42 U.S.C. § 9601(22)). For additional background information, see Legal Appendix (Appendix X1 of this practice) to X1.1.1 "Releases and Threatened Release."

report—the written *report* prepared by the *environmental professional* and constituting part of a "*Phase I Environmental Site Assessment*," as required by this practice.

site reconnaissance—that part that is contained in Section 9 of this practice and addresses what should be done in connection with the *site visit*. The *site reconnaissance* includes, but is not limited to, the *site visit* done in connection with such a *Phase I Environmental Site Assessment*.

site visit—the visit to the *property* during which observations are made

solid waste disposal site—a place, location, tract of land, area, or premises used for the disposal of solid wastes as defined by state solid waste regulations. The term is synonymous with the term *landfill* and is also known as a garbage dump, trash dump, or similar term.

solvent—a chemical compound that is capable of dissolving another substance and may itself be a *hazardous substance*, used in a number of manufacturing/industrial processes including but not limited to the manufacture of paints and coatings for industrial and household purposes, equipment clean-up, and surface degreasing in metal fabricating industries.

standard environmental record sources—those records specified in 8.2.1.

standard historical sources—those sources of information about the history of uses of *property* specified in 8.3.4.

standard physical setting source—a current USGS 7.5 Minute Topographic Map (if any) showing the area on which the *property* is located. See 8.2.4 of this practice.

standard practice—the activities set forth in this practice.

standard sources—sources of environmental, physical setting, or historical records specified in Section 8 of this practice.

state registered USTs—state lists of *underground storage tanks* required to be registered under Subtitle I, Section 9002 of RCRA.

sump—a pit, cistern, cesspool, or similar receptacle where liquids drain, collect, or are stored.

TSD facility—treatment, storage, or disposal facility (see *RCRA TSD facilities*).

underground injection—the emplacement or discharge of fluids into the subsurface by means of a well, improved sinkhole, sewage drain hole, subsurface fluid distribution system or other system, or groundwater point source.

underground storage tank (UST)—any tank, including underground piping connected to the tank, that is or has been used to contain *hazardous substances* or *petroleum products* and the volume of which is 10% or more beneath the surface of the ground.

user—the party seeking to use Practice E1527 to complete an *environmental site assessment* of the *property*. A *user* may include, without limitation, a potential purchaser of *property*, a potential tenant of *property*, an *owner* of *property*, a lender, or a property manager. The *user* has specific obligations for completing a successful application of this practice outlined in Section 6.

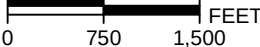
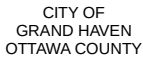
USGS 7.5 Minute Topographic Map—the map (if any) available from or produced by the United States Geological Survey, entitled “*USGS 7.5 Minute Topographic Map*,” and showing the *property*.

visually and/or physically observed—during a *site visit* pursuant to this practice, this term means observations made by vision while walking through a *property* and the structures located on it and observations made by the sense of smell, particularly observations of noxious or foul odors. The term “walking through” is not meant to imply that disabled persons who cannot physically walk may not conduct a *site visit*; they may do so by the means at their disposal for moving through the *property* and the structures located on it.

wastewater—water that (1) is or has been used in an industrial or manufacturing process, (2) conveys or has conveyed sewage, or (3) is directly related to manufacturing, processing, or raw materials storage areas at an industrial plant. *Wastewater* does not include water originating on or passing through or adjacent to a site, such as stormwater flows, that has not been used in industrial or manufacturing processes, has not been combined with sewage, or is not directly related to manufacturing, processing, or raw materials storage areas at an industrial plant.

zoning/land use records—those records of the local government in which the *property* is located indicating the uses permitted by the local government in particular zones within its jurisdiction. The records may consist of maps and/or written records. They are often located in the planning department of a municipality or county. See 8.3.4.8 of this practice.

Appendix 2



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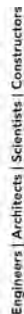


FIGURE NO.

PLOT INFO: Z:\2021\211365\CAD\GIS\mapdoc\SITE MAP.mxd Date: 10/4/2021 9:20:06 AM User: bahannah



LEGEND

 Approximate Property Boundary



Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Ottawa County

518 S. Harbor Dr, Grand Haven, Michigan

Phase I

Environmental Site Assessment

PROJECT NO.

211365

FIGURE NO.

Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community, Esri, HERE, Garmin, (c) OpenStreetMap contributors, Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community

Appendix 3

User Questionnaire



ASTM Standard Practice E1527-13

PROJECT NAME	Phase I ESA – 518 S. Harbor Drive, Grand Haven	PROJECT NO.	211365

INTRODUCTION

In order to qualify for one of the Landowner Liability Protections (LLPs) offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2001, the user must provide the following information (if available) to the environmental professional. Failure to provide this information could result in a determination that “All Appropriate Inquiry” is not complete.

1. Environmental cleanup liens that are filed or recorded against the site (40 CFR 312.25)

Question: Are you aware of any environmental cleanup liens against the property that are filed or recorded under federal, tribal, state, or local law? ☐ Yes *If yes, explain.* ☒ No

Supporting Documentation Required: Provide land title search results for liens to Fishbeck.

2. Activity and land use limitation that are in place on the site or that have been filed or recorded in a registry (40 CFR 312.26)

Question: Are you aware of any activity use limitations, such as engineering controls, land use restrictions, or institutional controls that are in place at the site and/or have been filed or recorded in a registry under federal, tribal, state, or local law? ☐ Yes *If yes, explain.* ☒ No

Supporting Documentation Required: Provide judicial record search results for activity use limitations to Fishbeck.

3. Specialized knowledge or experience of the person seeking to qualify for the LLP (40 CFR 312.28)

Question: As the user of this Phase I ESA, do you have any specialized knowledge or experience related to the property or nearby properties? For example, are you involved in the same line of business as the current or former occupants of the property so that you would have specialized knowledge of the chemicals and processes used by this type of business? ☐ Yes *If yes, explain.* ☒ No

User Questionnaire



ASTM Standard Practice E1527-13

4. Relationship of the purchase price to the fair market value of the property, if it were not contaminated (40 CFR 312.29).

Question: Does the purchase price being paid for this property reasonably reflect the fair market value of the property?

☒ Yes ☐ No *If no, explain.*

If you conclude there is a difference, have you considered whether the lower purchase price is because contamination is known or believed to be present on the property?

☐ Yes *If yes, explain.* ☒ No

5. Commonly known or reasonable ascertainable information regarding the property

Question: Are you aware of commonly known or reasonably ascertainable information regarding the property that would help the environmental professional to identify conditions indicative of releases or threatened releases? For example, as user:

- a. Do you know the past uses of the property? ☒ Yes *If yes, describe.* ☐ No

Historically, this site and part of the building was a coal powerplant. Since the late 1920's this site operated as a diesel powerplant for the City of Grand Haven.

- b. Do you know of specific chemicals that are present, or once were present, at the property?

☒ Yes *If yes, describe.* ☐ No

There was a previous phase 1 completed outlining the chemicals used on site.

- c. Do you know of spills or other chemical releases that have taken place at the property?

☒ Yes *If yes, describe.* ☐ No

There was a previous phase 1 completed outlining the chemical and fuel releases on site. I believe there is active well monitoring for these issues.

- d. Do you know of any environmental cleanups that have taken place at the property?

☒ Yes *If yes, describe.* ☐ No

The previous phase I explains the history on site for cleanup

User Questionnaire



ASTM Standard Practice E1527-13

6. The degree of obviousness of the presence or likely presence of contamination at the property and the ability to detect the contamination by appropriate investigations (40 CFR 312.31)

Question: As the user of this Phase I ESA, based on your knowledge and experience related to the property, are there any obvious indicators that point to the presence or likely presence of contamination at the property? ☒ Yes *If yes, describe.* ☐ No

This site functioned as a diesel power plant for 80+ years.

Phase I ESA User CL Real Estate Development, LLC, Lakewood Construction, Power Works, LLC, City of Grand Haven

Name Brant Cohen

Signature 

Date 10.6.2021

Appendix 4

518 S HARBOR DR DIESEL PLANT GRAND HAVEN, MI 49417 (Property Address)

Parcel Number: 70-03-20-399-006

No Images Found

Property Owner: CITY OF GRAND HAVEN

Summary Information

- > Assessed Value: \$0 | Taxable Value: \$0
- > Property Tax information found
- > 1 Special Assessment found
- > 2 Building Department records found

Parcel is Vacant

Owner and Taxpayer Information

Owner	CITY OF GRAND HAVEN BOARD OF LIGHT & POWER 1700 EATON DR GRAND HAVEN, MI 49417	Taxpayer	SEE OWNER INFORMATION

General Information for Tax Year 2021

Property Class	301 INDUSTRIAL-IMPROVED	Unit	58 CITY OF GRAND HAVEN
School District	GRAND HAVEN CITY SCHOOL DIST	Assessed Value	\$0
RENTAL?	No Data to Display	Taxable Value	\$0
BOR #:	0	State Equalized Value	\$0
GROUP:	Not Available	Date of Last Name Change	04/09/2018
REVIEW CYCLE:	Not Available	Notes	Not Available
Historical District	Not Available	Census Block Group	Not Available
CITY SERVICE:	Not Available	Exemption	No Data to Display

Principal Residence Exemption Information

Homestead Date No Data to Display

Principal Residence Exemption	June 1st	Final
2021	0.0000 %	0.0000 %

Previous Year Information

Year	MBOR Assessed	Final SEV	Final Taxable
2020	\$0	\$0	\$0
2019	\$0	\$0	\$0
2018	\$0	\$0	\$0

Important Message

+ Michigan W-2 Changes

Land Information

Zoning Code		Total Acres	0.000
Land Value	\$0	Land Improvements	\$0
Renaissance Zone	No	Renaissance Zone Expiration Date	No Data to Display
ECF Neighborhood	_E: EXEMPT	Mortgage Code	No Data to Display
Lot Dimensions/Comments	Not Available	Neighborhood Enterprise Zone	No

Lot(s)	Frontage	Depth
No lots found.		
Total Frontage: 0.00 ft		Average Depth: 0.00 ft

Legal Description

LOTS 1 THRU 3 BLK 3. CAMPAU'S ADD

Land Division Act Information

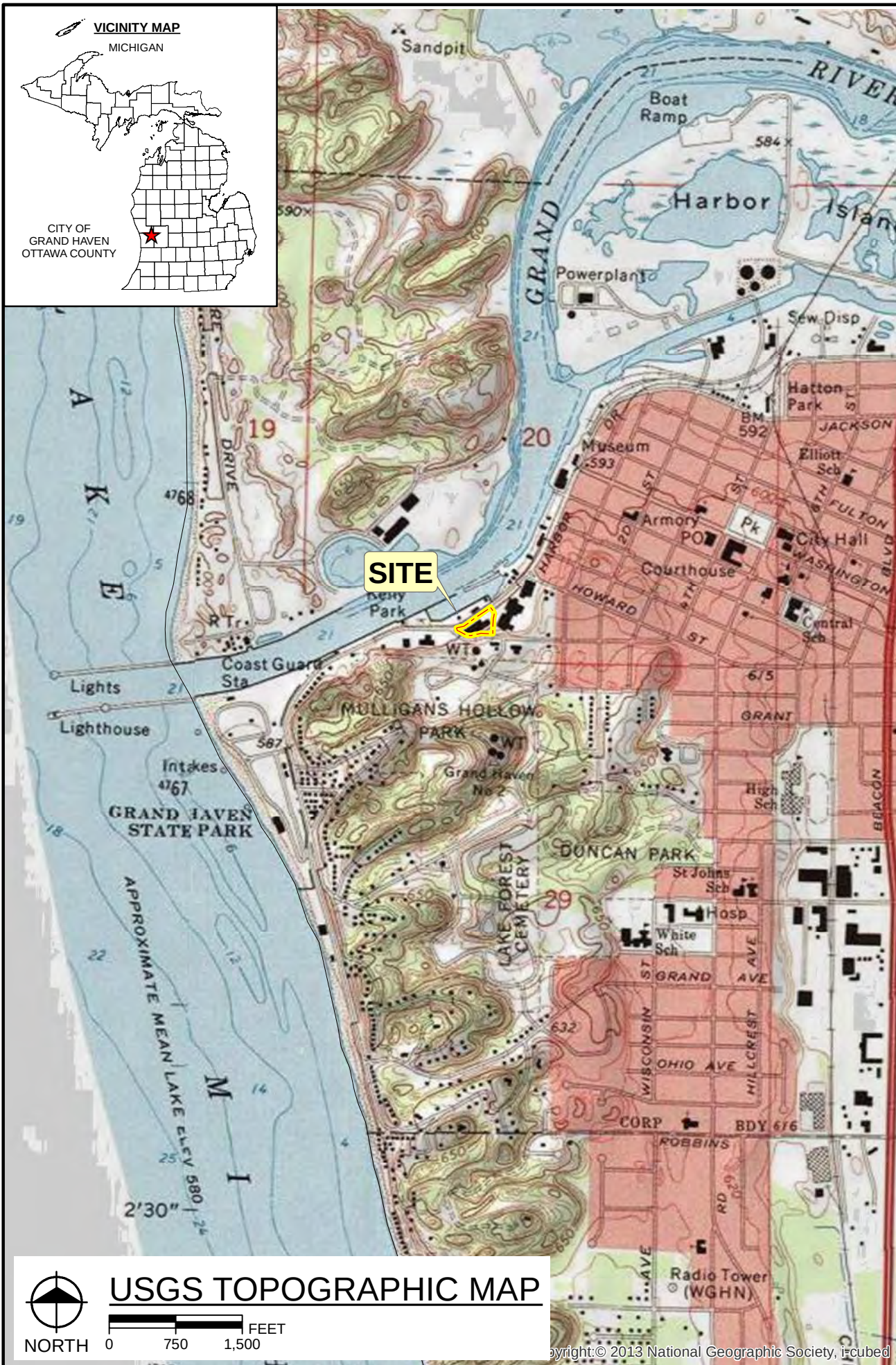
Date of Last Split/Combine	No Data to Display	Number of Splits Left	0
Date Form Filed	No Data to Display	Unallocated Div.s of Parent	0
Date Created	03/13/2006	Unallocated Div.s Transferred	0
Acreage of Parent	0.00	Rights Were Transferred	Not Available
Split Number	0	Courtesy Split	Not Available
Parent Parcel	No Data to Display		

Sale History

Sale Date	Sale Price	Instrument	Grantor	Grantee	Terms of Sale	Liber/Page
No sales history found.						

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Appendix 5



fishbeck

Engineers | Architects | Scientists | Constructors

Hard copy is intended to be 8.5"x11" when plotted. Scale(s) indicated and graphic quality may not be accurate for any other size.

Ottawa County
518 S. Harbor Dr, Grand Haven, Michigan
Phase I
Environmental Site Assessment

PROJECT NO.
211365

FIGURE NO.

Ottawa County, Michigan

Ma—Made land

Map Unit Setting

National map unit symbol: 6ghm

Mean annual precipitation: 30 to 36 inches

Mean annual air temperature: 45 to 48 degrees F

Frost-free period: 140 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Made land: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Data Source Information

Soil Survey Area: Ottawa County, Michigan

Survey Area Data: Version 14, Sep 16, 2019

Ottawa County, Michigan

PlfacD—Plainfield sand, dunes, 6 to 18 percent slopes

Map Unit Setting

National map unit symbol: 2ptcg

Elevation: 580 to 700 feet

Mean annual precipitation: 30 to 36 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 140 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Plainfield, dune, and similar soils: 80 percent

Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Plainfield, Dune

Setting

Landform: Dunes on lake plains

Landform position (two-dimensional): Summit, shoulder, backslope

Landform position (three-dimensional): Side slope, crest, nose slope, head slope

Down-slope shape: Convex, linear

Across-slope shape: Concave, convex

Parent material: Eolian sands

Typical profile

AE - 0 to 2 inches: sand

E - 2 to 4 inches: sand

Bs1 - 4 to 8 inches: sand

Bs2 - 8 to 18 inches: sand

BC - 18 to 24 inches: sand

C - 24 to 80 inches: sand

Properties and qualities

Slope: 6 to 18 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Excessively drained

Runoff class: Very low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Salinity, maximum in profile: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water storage in profile: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: A
Ecological site: Sandy Lake Plain (F097XA004MI)
Hydric soil rating: No

Minor Components

Plainfield, dune

Percent of map unit: 14 percent
Landform: Dunes on lake plains
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Platteriver

Percent of map unit: 5 percent
Landform: Dunes on lake plains
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

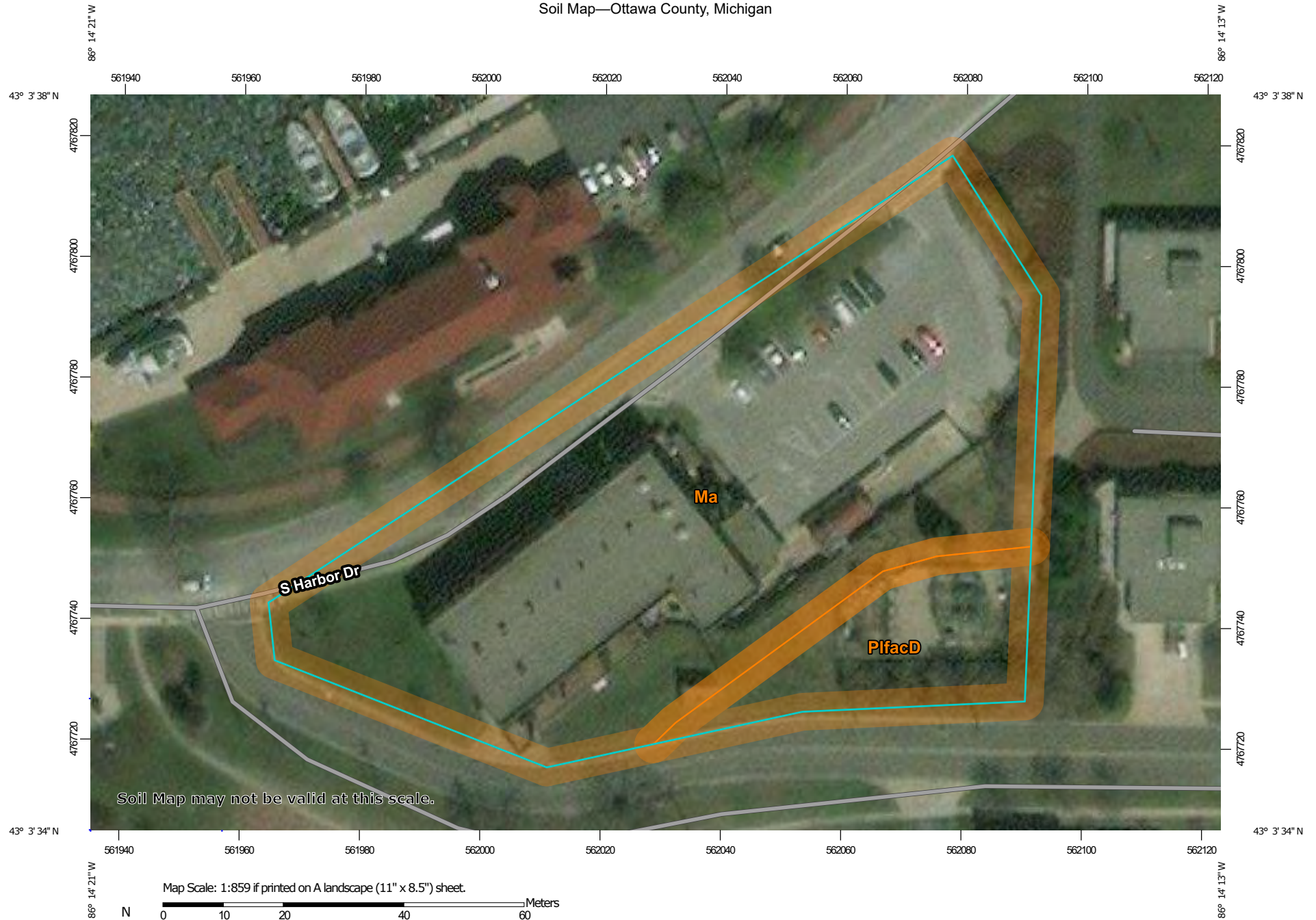
Dune land

Percent of map unit: 1 percent
Landform: Dunes
Landform position (two-dimensional): Summit, shoulder, backslope, footslope
Landform position (three-dimensional): Side slope, base slope, head slope, nose slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Concave, convex
Hydric soil rating: Unranked

Data Source Information

Soil Survey Area: Ottawa County, Michigan
Survey Area Data: Version 14, Sep 16, 2019

Soil Map—Ottawa County, Michigan



Soil Map may not be valid at this scale.

Map Scale: 1:859 if printed on A landscape (11" x 8.5") sheet.

0 10 20 40 60 Meters

0 40 80 160 240 Feet

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 16N WGS84



**Natural Resources
Conservation Service**

Web Soil Survey
National Cooperative Soil Survey

1/8/2020
Page 1 of 3

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils



Soil Map Unit Polygons



Soil Map Unit Lines



Soil Map Unit Points

Special Point Features



Blowout



Borrow Pit



Clay Spot



Closed Depression



Gravel Pit



Gravelly Spot



Landfill



Lava Flow



Marsh or swamp



Mine or Quarry



Miscellaneous Water



Perennial Water



Rock Outcrop



Saline Spot



Sandy Spot



Severely Eroded Spot



Sinkhole



Slide or Slip



Sodic Spot



Spoil Area



Stony Spot



Very Stony Spot



Wet Spot



Other



Special Line Features

Water Features



Streams and Canals

Transportation



Rails



Interstate Highways



US Routes



Major Roads



Local Roads

Background



Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

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: Ottawa County, Michigan

Survey Area Data: Version 14, Sep 16, 2019

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Dec 31, 2009—Oct 20, 2016

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.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ma	Made land	1.6	86.5%
PlfacD	Plainfield sand, dunes, 6 to 18 percent slopes	0.3	13.5%
Totals for Area of Interest		1.9	100.0%

Appendix 6



518 South Harbor Drive

518 South Harbor Drive

Grand Haven, MI 49417

Inquiry Number: 5915114.3

December 24, 2019

Certified Sanborn® Map Report



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

Certified Sanborn® Map Report

12/24/19

Site Name:

518 South Harbor Drive
518 South Harbor Drive
Grand Haven, MI 49417
EDR Inquiry # 5915114.3

Client Name:

Fishbeck, Thompson, Carr & Huber
1515 Arboretum Drive SE
Grand Rapids, MI 49546
Contact: Tom Budge



The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Fishbeck, Thompson, Carr & Huber 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.

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Certified Sanborn Results:

Certification # 4D81-48F3-9B6A

PO # NA

Project NA

Maps Provided:

1963
1949
1931
1920
1912
1906



Sanborn® Library search results

Certification #: 4D81-48F3-9B6A

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
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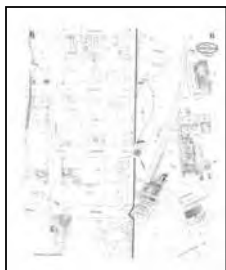
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Sanborn Sheet Key

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1963 Source Sheets



Volume 1, Sheet 6
1963

1949 Source Sheets



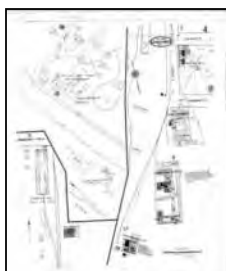
Volume 1, Sheet 6
1949

1931 Source Sheets



Volume 1, Sheet 6
1931

1920 Source Sheets



Volume 1, Sheet 4
1920

Sanborn Sheet Key

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.



1912 Source Sheets



Volume 1, Sheet 17
1912

1906 Source Sheets



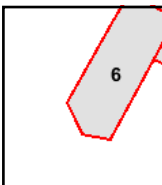
Volume 1, Sheet 14
1906

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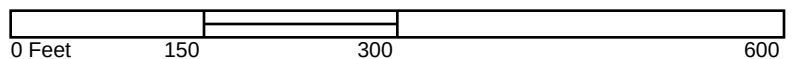
Certification # 4D81-48F3-9B6A



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Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 6



Site Name: 518 South Harbor Drive
Address: 518 South Harbor Drive
City, ST, ZIP: Grand Haven, MI 49417
Client: Fishbeck, Thompson, Carr & Huber
EDR Inquiry: 5915114.3
Order Date: 12/24/2019
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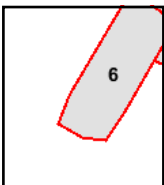
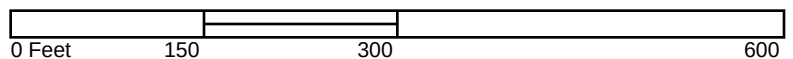
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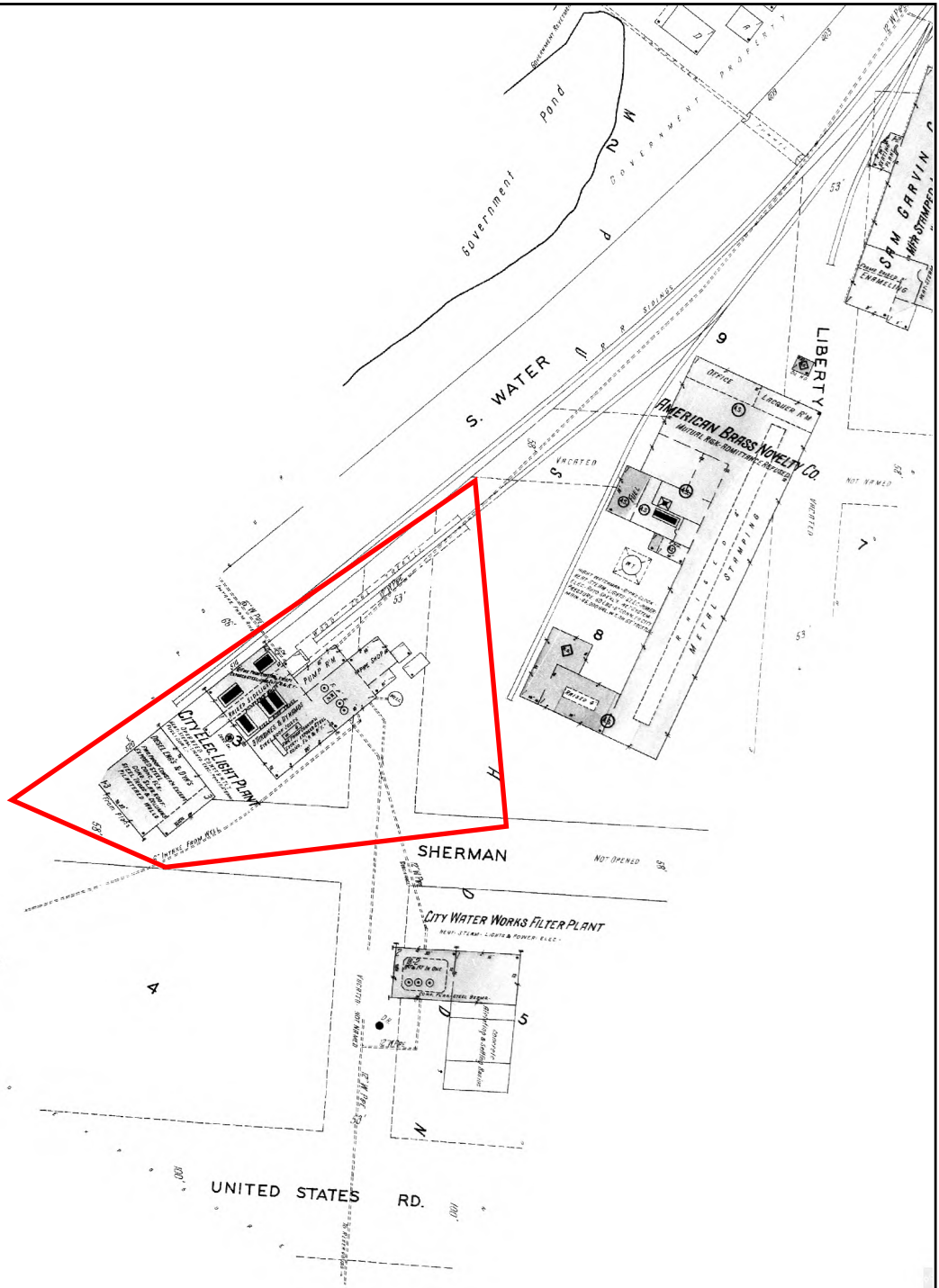


Volume 1, Sheet 6



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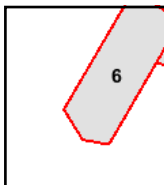
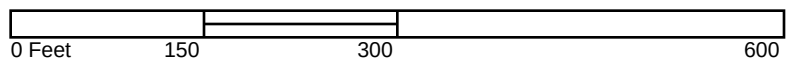
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Site Name: 518 South Harbor Drive
 Address: 518 South Harbor Drive
 City, ST, ZIP: Grand Haven, MI 49417
 Client: Fishbeck, Thompson, Carr & Huber
 EDR Inquiry: 5915114.3
 Order Date: 12/24/2019
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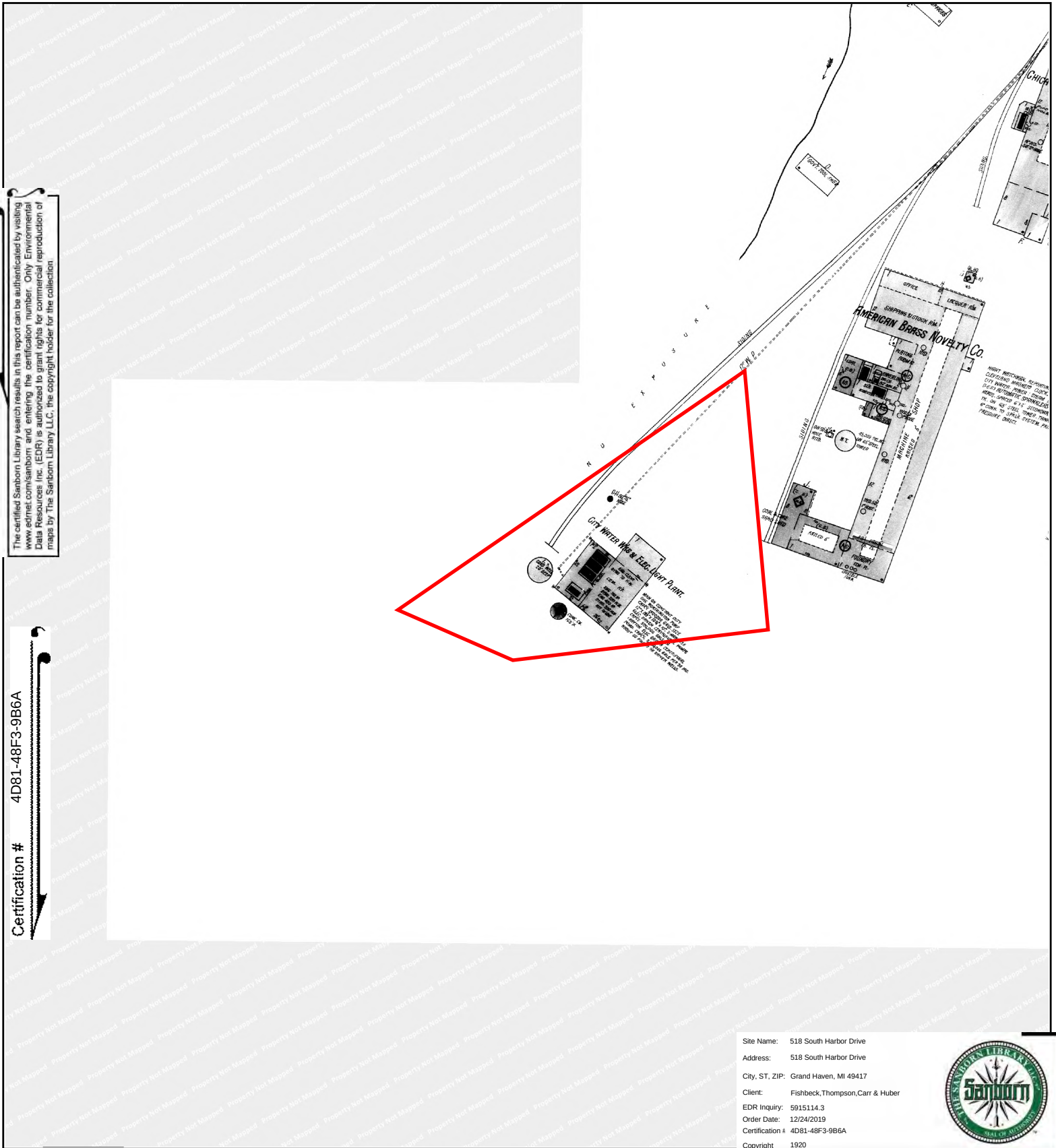


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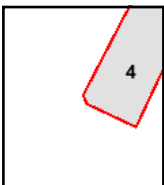
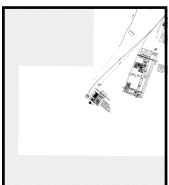
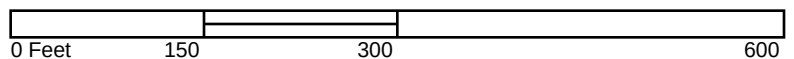
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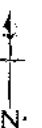
Site Name: 518 South Harbor Drive
 Address: 518 South Harbor Drive
 City, ST, ZIP: Grand Haven, MI 49417
 Client: Fishbeck, Thompson, Carr & Huber
 EDR Inquiry: 5915114.3
 Order Date: 12/24/2019
 Certification #: 4D81-48F3-9B6A
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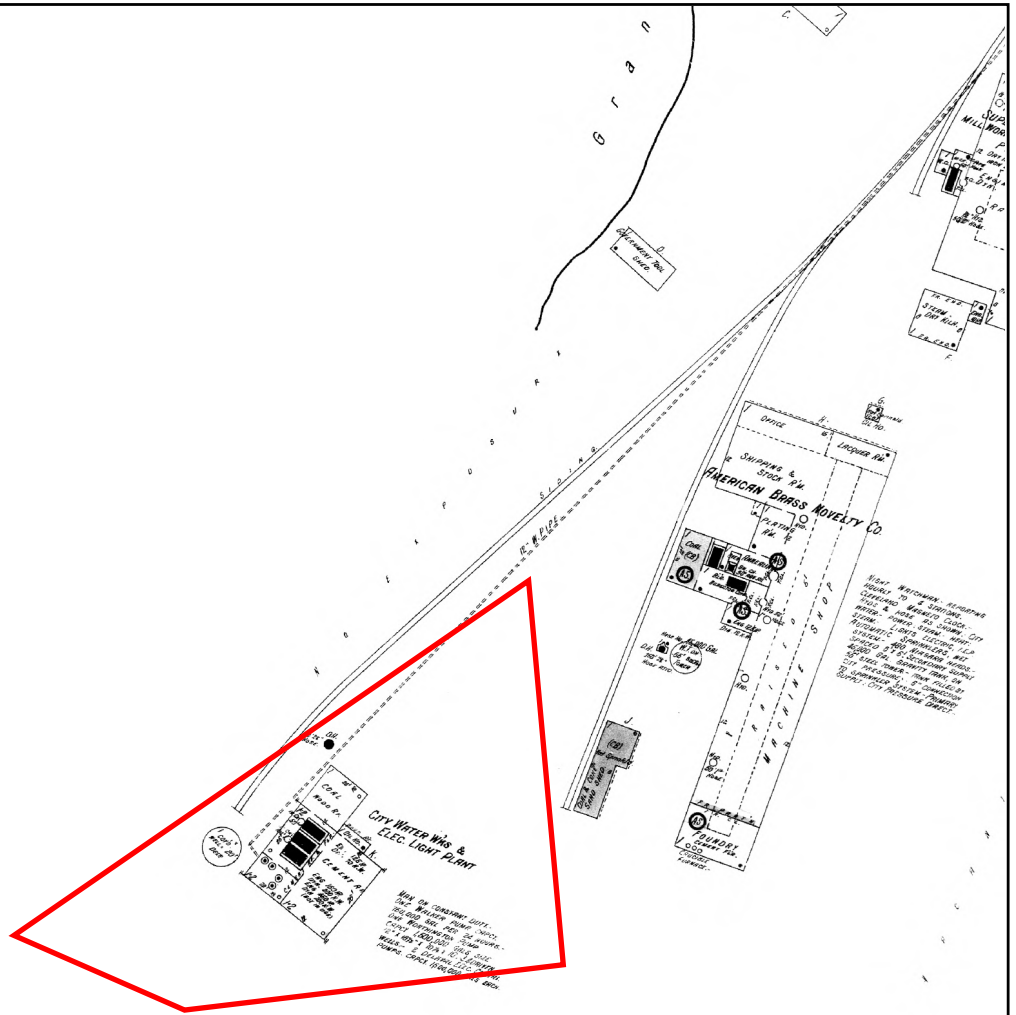


Volume 1, Sheet 4



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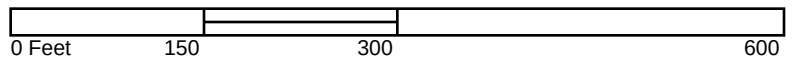
Certification # 4D81-48F3-9B6A



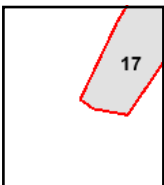
Site Name: 518 South Harbor Drive
 Address: 518 South Harbor Drive
 City, ST, ZIP: Grand Haven, MI 49417
 Client: Fishbeck, Thompson, Carr & Huber
 EDR Inquiry: 5915114.3
 Order Date: 12/24/2019
 Certification # 4D81-48F3-9B6A
 Copyright 1912



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.

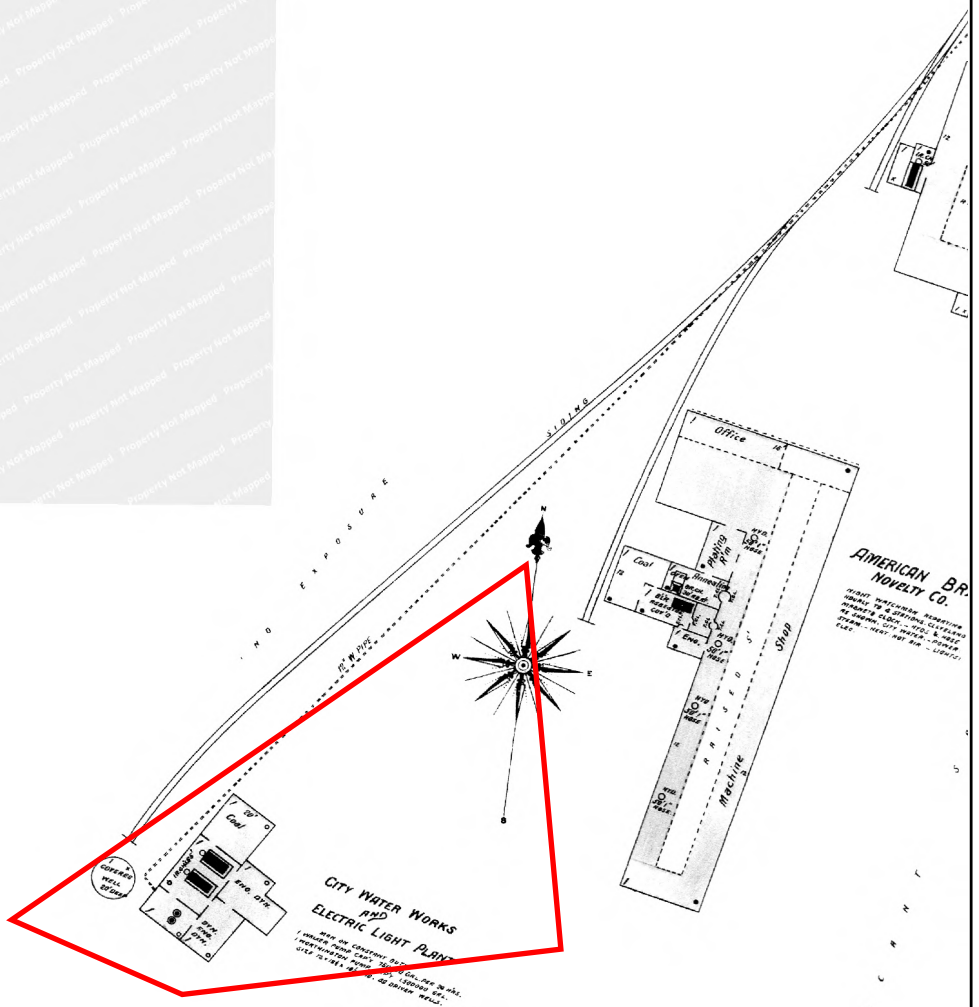


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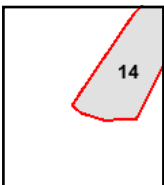
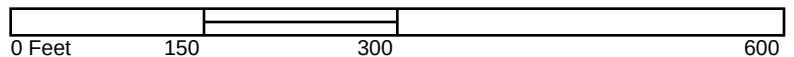
Certification # 4D81-48F3-9B6A



Site Name: 518 South Harbor Drive
 Address: 518 South Harbor Drive
 City, ST, ZIP: Grand Haven, MI 49417
 Client: Fishbeck, Thompson, Carr & Huber
 EDR Inquiry: 5915114.3
 Order Date: 12/24/2019
 Certification #: 4D81-48F3-9B6A
 Copyright: 1906



This Certified Sanborn Map combines the following sheets.
 Outlined areas indicate map sheets within the collection.



Volume 1, Sheet 14



518 South Harbor Drive

518 South Harbor Drive

Grand Haven, MI 49417

Inquiry Number: 5915114.8

December 27, 2019

The EDR Aerial Photo Decade Package



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

EDR Aerial Photo Decade Package

12/27/19

Site Name:

518 South Harbor Drive
518 South Harbor Drive
Grand Haven, MI 49417
EDR Inquiry # 5915114.8

Client Name:

Fishbeck, Thompson, Carr & Huber
1515 Arboretum Drive SE
Grand Rapids, MI 49546
Contact: Tom Budge



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

Search Results:

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
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
1997	1"=500'	Acquisition Date: May 04, 1997	USGS/DOQQ
1986	1"=500'	Flight Date: June 03, 1986	USDA
1978	1"=500'	Flight Date: January 01, 1978	USGS
1968	1"=500'	Flight Date: July 25, 1968	USGS
1962	1"=500'	Flight Date: June 13, 1962	USDA
1955	1"=500'	Flight Date: October 11, 1955	USDA
1938	1"=500'	Flight Date: June 21, 1938	USDA

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INQUIRY #: 5915114.8

YEAR: 2016

— = 500'





INQUIRY #: 5915114.8

YEAR: 2012

— = 500'





INQUIRY #: 5915114.8

YEAR: 2009

— = 500'







INQUIRY #: 5915114.8

YEAR: 1997

— = 500'





INQUIRY #: 5915114.8

YEAR: 1986

— = 500'



INQUIRY #: 5915114.8

YEAR: 1978

_____ = 500'



Subject boundary not shown because it exceeds image extent or image is not georeferenced.



INQUIRY #: 5915114.8

YEAR: 1968

— = 500'





INQUIRY #: 5915114.8

YEAR: 1962

= 500'





INQUIRY #: 5915114.8

YEAR: 1955

— = 500'





INQUIRY #: 5915114.8

YEAR: 1938

— = 500'



518 South Harbor Drive

518 South Harbor Drive
Grand Haven, MI 49417

Inquiry Number: 5915114.5
December 30, 2019

The EDR-City Directory Image Report

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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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Data by

infoUSA®

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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.

<u>Year</u>	<u>Target Street</u>	<u>Cross Street</u>	<u>Source</u>
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	☒	☒	Polk's City Directory
1982	☒	☒	Polk's City Directory
1977	☒	☒	Polk's City Directory
1972	☒	☒	Polk's City Directory
1967	☐	☒	Polk's City Directory
1960	☐	☒	Polk's City Directory
1952	☐	☒	Polk's City Directory

FINDINGS

TARGET PROPERTY STREET

518 South Harbor Drive
Grand Haven, MI 49417

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

S HARBOR DR

2014	pg A1	EDR Digital Archive	
2010	pg A3	EDR Digital Archive	
2005	pg A5	EDR Digital Archive	
2000	pg A7	EDR Digital Archive	
1995	pg A9	EDR Digital Archive	
1992	pg A11	EDR Digital Archive	
1987	pg A13	Polk's City Directory	
1982	pg A15	Polk's City Directory	
1982	pg A16	Polk's City Directory	
1977	pg A18	Polk's City Directory	
1977	pg A19	Polk's City Directory	
1972	pg A21	Polk's City Directory	
1972	pg A22	Polk's City Directory	
1967	-	Polk's City Directory	Street not listed in Source
1960	-	Polk's City Directory	Street not listed in Source
1952	-	Polk's City Directory	Street not listed in Source

FINDINGS

CROSS STREETS

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

SHERMAN AVE

2014	pg. A2	EDR Digital Archive
2010	pg. A4	EDR Digital Archive
2005	pg. A6	EDR Digital Archive
2000	pg. A8	EDR Digital Archive
1995	pg. A10	EDR Digital Archive
1992	pg. A12	EDR Digital Archive
1987	pg. A14	Polk's City Directory
1982	pg. A17	Polk's City Directory
1977	pg. A20	Polk's City Directory
1972	pg. A23	Polk's City Directory
1967	pg. A24	Polk's City Directory
1960	pg. A25	Polk's City Directory
1952	pg. A26	Polk's City Directory

City Directory Images

S HARBOR DR 2014

307	ENGINEERS U S ARMY CORPS OF UNITED STATES GOVERNMENT
310	OLTEAN, PATRICA
311	SNUG HARBOR INC
313	PRONTO PUP
320	FABELA, AUGIE YOUNG JILL E
330	CRAMER, DAVID O
340	OCCUPANT UNKNOWN,
601	COAST GUARD UNITED STATES USCG
605	HOMELAND SECURITY US DEPT
609	BILLMAN, R J
650	COAST GUARD EXCHANGE SYSTEM COAST GUARD UNITED STATES DEPARTMENT HOMELAND SECURITY TSR INC
700	CHARLES A CONKLIN POST 28
726	BUTCHS BEACH BURRITOS INC
810	THOMAS L BRACIAK
1001	MICHIGAN DEPT NTURAL RESOURCES MICHIGAN STATE OF DNR

SHERMAN AVE 2014

6	MONARCH HOLDINGS INC
7	OCCUPANT UNKNOWN,
9	MELVILLE, BONNIE J
15	OCCUPANT UNKNOWN,
17	OCCUPANT UNKNOWN,
21	OCCUPANT UNKNOWN,
	VANS INDUSTRIAL EQUIPMENT CO
23	ROBINSON, SHANNON J
	VOCOLLECT INC
25	OCCUPANT UNKNOWN,
27	OCCUPANT UNKNOWN,
	VANDERKOLK PROPERTIES
29	LAKESHORE DIVERSIFIED PROD
30	GRAND HAVEN CITY OF
	OCCUPANT UNKNOWN,
31	OCCUPANT UNKNOWN,
56	ENVIRONMENTAL HEALTH RESOURCES
	JOHN DAVID LUTKENHOFF

S HARBOR DR 2010

307	ENGINEERS U S ARMY CORPS OF
310	OLTEAN, JOHN
311	SNUG HARBOR INC
320	FABELA, AUGIE
	YOUNG JILL E
330	CRAMER, DAVID O
333	CRAMER, DAVID
340	EHLERT, EMILY A
400	PAGE MICHIGAN CENTRAL
	USA MOBILITY WIRELESS INC
601	COAST GUARD UNITED STATES
	OTTAWA CNTY SHERIFF MAR PATROL
	USCG
605	HOMELAND SECURITY US DEPT
609	BILLMAN, R J
620	RANTA, JAMES
650	COAST GUARD EXCHANGE SYSTEM
	COAST GUARD UNITED STATES
700	8 & 40 SALON 499
	AMERICAN LEGION AUX POST 28
	CHARLES A CONKLIN POST 28
726	BUTCHS BEACH BURRITOS INC
810	THOMAS L BRACIAK
820	ZEPHYR ENTERPRISES L L C
1001	MICHIGAN STATE OF DNR
	NATURAL RESOURCES MICH DEPT

SHERMAN AVE 2010

6	FREDRICKS DESIGN INC
	MONARCH HOLDINGS INC
15	SHARKEY, SANDRA J
17	RYCENGA, CHARLES E
19	KLAASEN, DAVID J
21	VANS INDUSTRIAL EQUIPMENT CO
23	CAWTHON, ANDY
	VOCOLLECT INC
25	HEATHFIELD, JALEANE B
27	VANDERKOLK PROPERTIES
	VANDERKOLK, PETER J
29	LAKESHORE DIVERSIFIED PROD
	VANLOON, JACK G
56	ENVIRONMENTAL HEALTH RESOURCES
115	A GREAT ESTATE INC

S HARBOR DR 2005

307	ENGINEERS U S ARMY CORPS OF
311	SNUG HARBOR INC
400	ARCH WIRELESS INC
	PAGE MICHIGAN CENTRAL
413	WALKER, MARK
601	COAST GUARD UNITED STATES
605	HOMELAND SECURITY US DEPT
620	RANTA, JAMES
650	COAST GUARD EXCHANGE SYSTEM
	COAST GUARD UNITED STATES
	M C I F A A POTS
700	CHARLES A CONKLIN POST 28
726	BUTCHS BEACH BURRITOS INC
1001	NATURAL RESOURCES MICH DEPT

SHERMAN AVE 2005

6	FREDRICKS DESIGN INC
7	MELVILLE, ROBERT C
15	OLSON, JUNE G
17	RYCENGA, CHARLES E
23	CAWTHON, DAVID A
25	HEATHFIELD, JALEANE B
29	VANLOON, JACK G
30	GRAND HAVEN CITY OF

S HARBOR DR 2000

307	ENGINEERS U S ARMY CORPS OF
310	GRAND HVEN COAST GRD FSTVAL
311	SNUG HARBOR INC
400	PAGE MICHIGAN CENTRAL
650	COAST GUARD UNITED STATES
700	CONKLIN CHARLES A POST 28 TH
726	BUTCHS BEACH BURRITOS INC
810	JACKSON STREET MARINA INC
1001	RUARK JOHN

SHERMAN AVE 2000

7	JACHIM, JAMES A
9	TERRY, MARTHA N
15	OLSON, WALLACE
17	RYCENGA, CHARLES
19	WILKENING, CAROL A
21	VANDERSLOOT, JACK L
23	BRENGLE, DEANE R
25	HEATHFIELD, JALEANE B
29	MARINA JACKS CHARTER

S HARBOR DR 1995

307	DEPARTMENT OF ARMY
310	UTILICORP UNITED INC
601	BERTRAM, BRUCE
	FIORE, ANTHONY
	KASHUR, MATT
	LYNN, JASON
	WHITAKER, RON
650	OCCUPANT UNKNOWNN
700	CONKLIN CHARLES A POST 28 TH
726	BUTCHS BEACH BURRITOS INC

SHERMAN AVE 1995

29 MARINA JACK S CHARTER

S HARBOR DR 1992

307 UNITED STATES DEPARTMENT DEF
 310 UTILICORP UNITED INC
 601 HOWELL, LYNN M
 MESSINGER, JEFFREY S
 REILLY, SUSAN
 650 U S DEPARTMENT TRANSPORTATION
 700 AMERICAN LEGION CLUB
 709 PIER PEDDLER
 1001 GRAND HAVEN STATE PARK
 KENT CONSTRUCTION

SHERMAN AVE 1992

29 MARINA JACK S CHARTER

S HARBOR DR 1987

S HARBOR DR-Contd

Investment Property Association
coml & industrial real est
846-6900

Parker Thomas F & Associates
mfg rep 846-2300

Van Eenenaam White &
Robbins 842-6160

Mattoon & Lee indus sup &
equip 846-0603

Ferris Busscher & Zwiers P C
cpa 865-6845

22 South Bank Deli Restaurant
842-7930

FRANKLIN INTERSECTS

102 Wessel's T B A Inc tire
dealers & repr 842-0750

112 Vink Steve L ofc 846-2818

CLINTON INTERSECTS

200 Harbor Stop & Deli The
846-1550

201 Village On The Grand
shopping center
Mrs Haines Confectionary Ice
Cream Shop 846-5540

212 Harbor Center bldg
Suites

101 Vacant

102 Massachusetts Life Ins ins
sls 846-7676

102 Insurance Planning Servs
ind-group ins 846-7676

102 M M L Investors Servs
investments 846-7676

2dfl Gabriel Thos W dentist
846-6360

Smith Craig dentist 846-6360
2dfl Olsen H C & Associates
Inc mktg consultant
846-0120

301 Technical Marketing Inc
846-6730

302 Sharp Sales Assocs mfr
rep 846-2440

303 Vacant

LAFAYETTE BEGINS

218 Dairy Treat ice cream
846-2470

307 U S A Corps Of Eng
842-5510

HOWARD ENDS

310 Michigan Gas Utilities Co
842-7500

311 Dansk Kro restr 846-8400

313 Pronto Pups restr

500 Sandpiper Condominiums
846-7140

650 G H City Bd Of Light &
Power (Admn Ofc) 846-6250

700 American Legion Club
842-5310

Conklin Charles A Post No 28
(Am Legion) 842-5310

726 Butch's Beach Burrito's drive
inn restr 842-3690

800 Boardwalk Luxury Condos
847-0555

802 Summer Res

820 Building

UNITS

1 Vacant

2★Pipp Ben

3★Evans Marilyn

4 Vacant

5★Fletcher

6 Vacant

7 Vacant

8★Kanne Jeff

9 No Return

10 No Return

11★Deyoung Ron

12 Vacant

830 Building

UNITS

13★Lucas Bud

15★Barrett Wm 864-4352

16★Cole Marilyn Mrs 847-1442

17 Model Unit

18 Vacant

19 Vacant

20★Sonnevelt Jack

21★Miller Jack

22 Vacant

23 No Return

Baker Josephine © 842-6453

834 Cornell Versal E © 842-4672

838 Hoekstra Robt A © 846-6936

840 Afendoulis Gust J © 846-7980

844 Cameron John J © 842-4925

846★Warmington Steve J ©
846-4452

848★Kowalczyk Leon 846-1980

849 Vanderjagt Construction
842-7412

852 Vacant

852½ Vacant

854★Dewston Lee 846-3747

856 Rooney Jas summer res
846-7003

858 Vacant

900 Whitton John B © 842-0714

SHERMAN AVE 1987**2****SHERMAN AV -FROM
LIBERTY EAST 1 SOUTH OF
LAFAYETTE**

ZIP CODE 49417

7 Jachim James A © 842-5725

9 Vacant

13 Hofstra Oscar © 846-0077

15 Janman Lenore 846-0676

17 Rycenga Chas Jr © 842-9119

19 Kleft Howard M © 842-4052

21 Palmer Harry L © 846-2510

23 Brengle Deane R 842-5898

25 Heathfield Edwin J ©

842-5805

27★Kovac Mary J 846-3191

29 Retzlaff Gerald V

30 North Ottawa Water

Treatment Plant 842-3210

31★Mc Farland D E 846-6053

55 Bernard Stewart 847-0754

56 Von Oettingen Eliz L ©

842-5804

LEGGATT INTERSECTS

100 Del Vecchio Gary © 846-1915

101 Law Wm O © 842-5073

108★Harrison Linda Mrs ©

846-4109

111 Van Stratt John D carp ©

842-2023

115 Elzinga Philip M © 846-1039

116 Van Cura Douglas L ©

846-7253

119 Thayer Larry ©

LAKE AV INTERSECTS

212 Whitehill Sharon K ©

846-5543

216 Baker J Dickinson ©

846-5969

217 Eslick Jonathan W ©

842-0436

220 Johnson Wayne A 846-4672

221 Van Woerkom Helen J ©

842-2074

BUTLER INTERSECTS

301 Kirchner Ronald © 846-8847

302 Baker Bruce W © 846-6381

305 Leatherman Vernon A ©

842-8193

314 Akey Robt J ©

315 Sheltraw Leo J © 842-7573

316 Kooiman Henry A ©

842-7529

HOWARD INTERSECTS

S HARBOR DR 1982**HARBOR DR S —FROM 2
WASHINGTON SOUTH****ZIP CODE 49417****22 South Bank Deli Restaurant
842-7930****FRANKLIN INTERSECTS****102 Wessel's T B A Inc tire
dealers & repr 842-0750****112 No Return****CLINTON INTERSECTS****200 Harbor Stop The party store
842-9829****201 Village On The Grand
shopping cntr 846-5540****Le Crepe Shop restr 846-5540****Sunshine Shop t-shirt shop****Village Shop****Mrs Haines Confectionary Ice
Cream Shop 846-5540****212 Vacant****Gabriel Thos W dentist
846-6360****Terrill Unionmutual Assoc ins
842-8717****Gray J P & Assocs archt
842-8750****Bordua Kenneth J &
Associates landscape archt
846-6851****LAFAYETTE BEGINS****218 Dairy Treat ice cream
846-2470****307 U S Corps Of Engs (Depot)
842-5510****HOWARD ENDS****310 Michigan Gas Utilities Co
842-7500**

S HARBOR DR 1982**S HARBOR DR—Contd**

311 Dansk Kro restr 846-8400

313 Pronto Pups restr

500 Sandpiper Condominiums
846-7140

650 City Bd Of Light & Power
(Business Ofc) 846-6250
City Bd Of Light & Power
(serv bldg) 846-2341

700 American Legion Club
842-5310

Conklin Charles A Post No 28
(Am Legion) 842-5310

Conklin Charles A Post No 28
Auxiliary (Am Legion)
842-5310

726 A & W Drive In restr
846-5950

802 Summer Res

830 Baker June © 842-6453

834 Cornell Versal E © 842-4672

838 Hoekstra Robt A © 846-6936

840 Summer Res

844 Cameron John J © 842-4925

846 No Return

848 Kowalczyk Leon 846-1980

SHERMAN AVE 1982

**SHERMAN AV —FROM
LIBERTY EAST 1 SOUTH OF
LAFAYETTE****ZIP CODE 49417****55 English Earl © 846-8517****56 Von Oettingen Eliz L ©
842-5804****LEGGATT INTERSECTS****100★Del Vecchio Gary ©
846-1915****101 Law Wm O © 842-5073****108 Wessel Violet A Mrs ©
842-5389****111 Van Stratt John D ©
842-2023****115 Elzinga Philip M © 846-1039****116 Jordan Jas M © 842-9334****119 No Return****LAKE AV INTERSECTS****212 Whitehill Sharon K Mrs ©
846-5543****216 Baker J Dickinson ©
846-5969**

S HARBOR DR 1977

**HARBOR DR S —FROM 2
WASHINGTON SOUTH**

ZIP CODE 49417

1 Vacant

22 Paddington Worthmore Deli
restr 842-7930

23 Vacant

FRANKLIN INTERSECTS102 Wessel's T B A Inc gas sta
842-0750

112★Muskovin Richd D 846-4936

CLINTON INTERSECTS200 Harbor Stop The party store
842-9829201 Village On The Grand
846-3110

Le Crepe Shop restr

Mrs Haines Confectionary Ice
Cream Shop212 Young M C Sales Co mfg rep
Gabriel Thos W dentist
846-6360Terrill Union Mutual Ins
Assoc

Gray-Lundwall archt

S HARBOR DR 1977**LAFAYETTE BEGINS**

218 Dairy Treat ice cream

846-2470

307 U S A Corps Of Engs

842-5510

HOWARD ENDS

310 Michigan Gas Utilities Co

842-7500

311 Lakeshore Floral & Gift

florist 846-4888

313 Pronto Pups restr

500 Vacant

650 City Bd Of Light & Power

(Business Ofc) 846-6250

City Bd Of Light & Power

(serv bldg) 846-2341

700 American Legion Club

842-5310

Conklin Charles A Post No 28

(Am Legion) 842-5310

Conklin Charles A Post No 28

Auxiliary (Am Legion)

842-5310

726 A & W Drive In 846-3380

802 Vacant

830 Baker June © 842-6453

834 Cornell Versal E © 842-4672

838 Voss Marguerite Mrs ©

842-3917

840 Summer Cottage

844 Cameron John J © 842-4925

846 Douse Glenn D ©

848 Kowalczyk Leon 846-1980

852★La Croin Fredrk R 846-5495

852½★Gaecke Mark

SHERMAN AVE 1977

**SHERMAN AV —FROM
LIBERTY EAST 1 SOUTH OF
LAFAYETTE****ZIP CODE 49417**

55 Olson Alfred J ☉ 842-8063

56 Von Oettingen Eliz L 842-5804

LEGGATT INTERSECTS

100 Maki Jerrold ☉ 846-4814

101 Law Wm O ☉ 842-5073

108 Wessel Violet A Mrs ☉

842-5389

111 Van Stratt John D ☉

842-2023

115 Elzinger Philip M ☉ 846-1039

116★Jordan James M ☉

119 Roetter Wm E ☉

LAKE AV INTERSECTS

212 Van Hall Sharon Mrs ☉

842-3091

216★Baker J Dickinson ☉

846-5969

217 Harris John P ☉ 842-7628

220 Beukema Rose B Mrs ☉

842-2885

S HARBOR DR 1972

**HARBOR DR S —FROM 2
WASHINGTON SOUTH****ZIP CODE 49417****1 Meridian Inc ofc & sch furn
842-1852****22 Zephyr Friendly Service gas
sta 842-7930****FRANKLIN INTERSECTS****102 Wessel's T B A Inc gas sta
842-0750****112 ★ Beck Jack A****121 Grand Haven Coal & Dock Co
842-9110****CLINTON INTERSECTS**

S HARBOR DR 1972

S HARBOR DR—Contd

200 Harbor Stop The party store
842-9829

205 Wessel's T B A (Whse)

207 Flea Market The 842-8216

213 Tiki Hut gifts

Heritage Cellar Antiques

LAFAYETTE BEGINS

218 Dairy Treat ice cream
846-2470

223 Vacant

307 US Corps Of Engs 842-5510

HOWARD ENDS

310 Michigan Gas Utilities Co
842-7500

311 Guiseppe's Pizza 842-1410

313 Pronto Pups restr

315 Morse Elsie E Mrs gifts ©
842-2893

402 Garvin Sam & Co electric
supplies 842-6220

500 Michigan Brass (Div Marquis
Industries Inc) 842-2810

es City Bd Of Light & Power
(Serv Bldg)

City Municipal Light & Power
Plant

City Police Pistol Range

Municipal Light & Power Plant
(Store Rm)

700 American Legion Club
842-5310

Conlkin Charles A Post No 28
(Am Legion) 842-5310

Conklin Charles A Post No 28
Auxiliary (Am Legion)
842-5310

726 A & W Drive In 846-3380

830 Summer Cottage

834 Cornell Versal E © 842-4672

838 Voss Marguerite Mrs ©
842-3917

840 Summer Cottage

842 Summer Cottage

844 Cameron John J © 842-4925

846 ★ Douse Glen 846-2104

848 K... 846-1000

SHERMAN AVE 1972

**SHERMAN AV —FROM
LIBERTY EAST 1 SOUTH OF
LAFAYETTE****ZIP CODE 49417****55 Olson Alfred J © 842-8063****56 ★ Schripsema Wesley D ©
846-1024****LEGGATT INTERSECTS****100 Tammen Daryl D © 842-7208****101 Law Wm O © 842-5073****108 Wessel Edw J © 842-5389****111 Van Stratt John D ©
842-2023****115 ★ Elzinga Philip M © 846-1039****116 Kuzma Michl J © 842-4464****119 Roetter Wm E ©****LAKE AV INTERSECTS****212 Anderson Donald © 842-8590****216 Scott Charles E © 842-1015****217 Harris John P © 842-7628**

SHERMAN AVE 1967

2

SHERMAN ST -FROM LIBERTY
EAST, 1 SOUTH OF
LAFAYETTE

---ZIP CODE 49417

55 OLSON ALFRED J •
842-8063

56 BOSCH THOS R •
842-3169

---LEGGATT INTERSECTS

100 FULKERSON RICH D E •
842-0968

101 LAW WM D • 842-5073

108 WESSEL EDW • 842-5389

111 VAN STRATT JOHN D •
842-2023

115 SPOELMA JOHN H

116 KUZMA MICHL •
842-4464

119 PLUMB GRACE MRS •
842-7946

---LAKE AV INTERSECTS

212 ANDERSON DONALD F •

SHERMAN AVE 1960

**SHERMAN—From Liberty east to
Howard, 1 south of Lafayette**

55 Tanis Edna Mrs © 871

Bosch Thos R © 544

Leggatt intersects

100 Fant Howard W © 663

101 Law Wm O © 2335W

108 Taylor Chas A 1568

111 VanStratt John D © 5387

115 VanderVeen Claude F © 114

116 Bruner Chester A © 3034

119 Plumb Wm J © 874

Lake av intersects

212 Merwin Bannister A © 1375J

216 Nederveld Frances A Mrs ©
2593W

217 Shipley Eug 3709R

220 Beukema Claude © 1713J

221 VanWoerkom Wm © 1144

SHERMAN AVE 1952

**SHERMAN — From S Water east
to Howard, 1 south of Lafayette**

100△Fant Howard W ⑥

101△Bussema John Rev

108 Wessel John C ⑥

111△Ott Hilda Mrs ⑥

115△VanderVeen Claude F ⑥

116△Taylor Frank M ⑥

119△Plumb Wm J

Lake av intersects

212△Mervin Bannister A

216△Nederveld David J ⑥

217 Kamenske Emilie Mrs ⑥



518 South Harbor Drive

518 South Harbor Drive

Grand Haven, MI 49417

Inquiry Number: 5915114.4

December 23, 2019

EDR Historical Topo Map Report

with QuadMatch™



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

EDR Historical Topo Map Report

12/23/19

Site Name:

518 South Harbor Drive
518 South Harbor Drive
Grand Haven, MI 49417
EDR Inquiry # 5915114.4

Client Name:

Fishbeck,Thompson,Carr & Huber
1515 Arboretum Drive SE
Grand Rapids, MI 49546
Contact: Tom Budge



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

Search Results:**Coordinates:**

P.O.# NA

Project: NA

Latitude: 43.059857 43° 3' 35" North

Longitude: -86.238135 -86° 14' 17" West

UTM Zone: Zone 16 North

UTM X Meters: 562038.17

UTM Y Meters: 4767743.47

Elevation: 603.12' above sea level

Maps Provided:

2014
1980
1972
1936
1930

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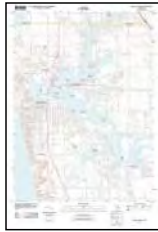
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Topo Sheet Key

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

2014 Source Sheets



Grand Haven
2014
7.5-minute, 24000



Grand Haven OE W
2014
7.5-minute, 24000

1980 Source Sheets



Grand Haven
1980
7.5-minute, 24000
Aerial Photo Revised 1969

1972 Source Sheets



Grand Haven
1972
7.5-minute, 24000
Aerial Photo Revised 1969

1936 Source Sheets



Lake Harbor
1936
15-minute, 62500

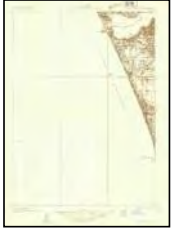


Muskegon
1936
15-minute, 62500

Topo Sheet Key

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

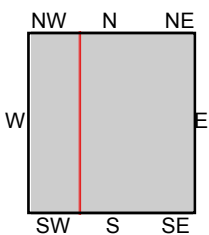
1930 Source Sheets



Lake Harbor
1930
15-minute, 48000



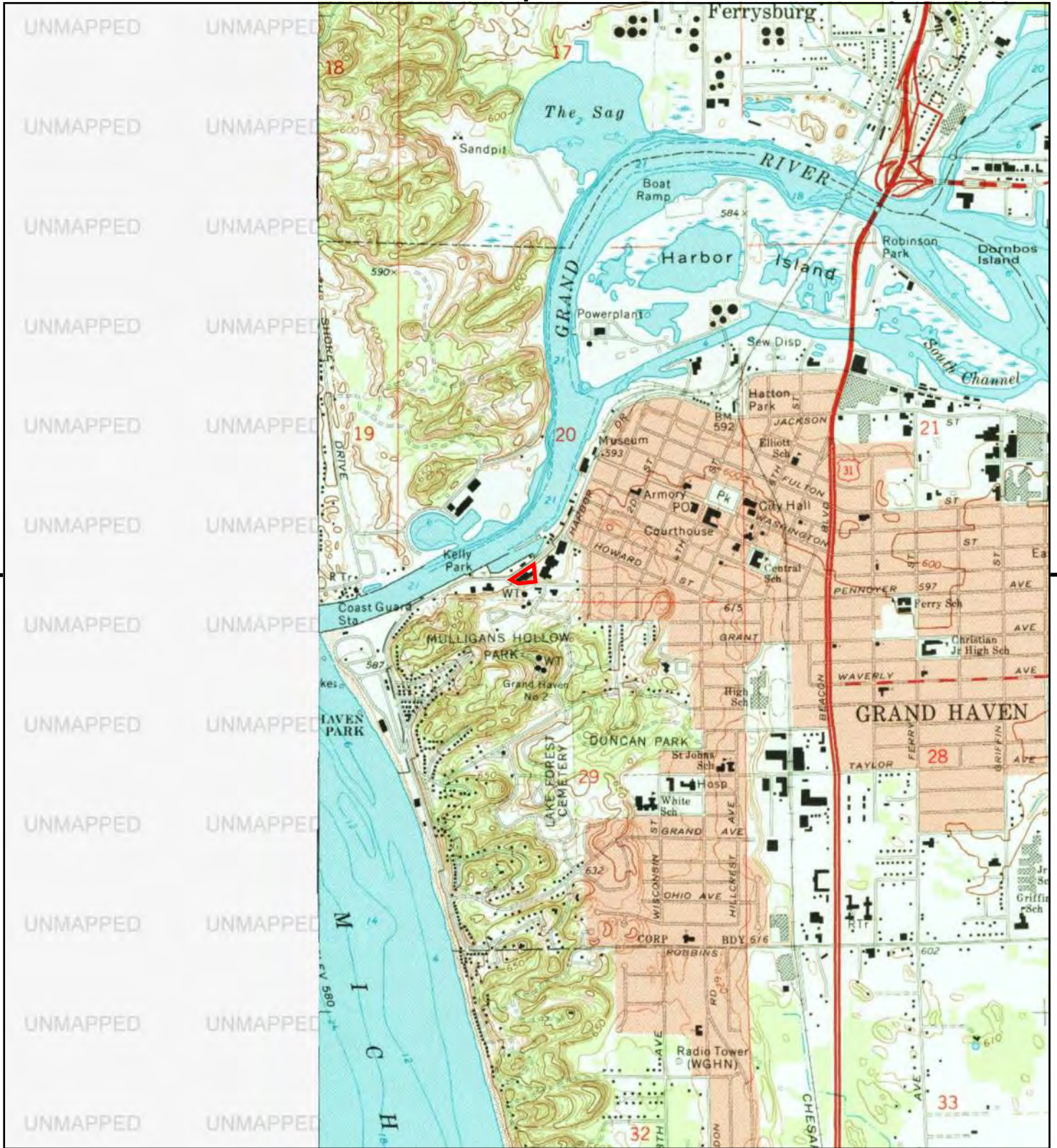
This report includes information from the following map sheet(s).



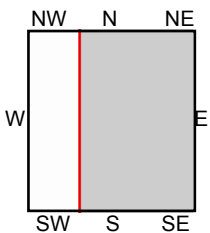
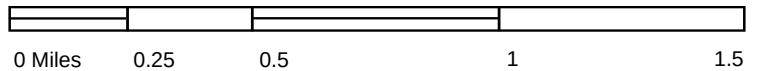
TP, Grand Haven, 2014, 7.5-minute
W, Grand Haven OE W, 2014, 7.5-minute

SITE NAME: 518 South Harbor Drive
ADDRESS: 518 South Harbor Drive
Grand Haven, MI 49417
CLIENT: Fishbeck, Thompson, Carr & Huber





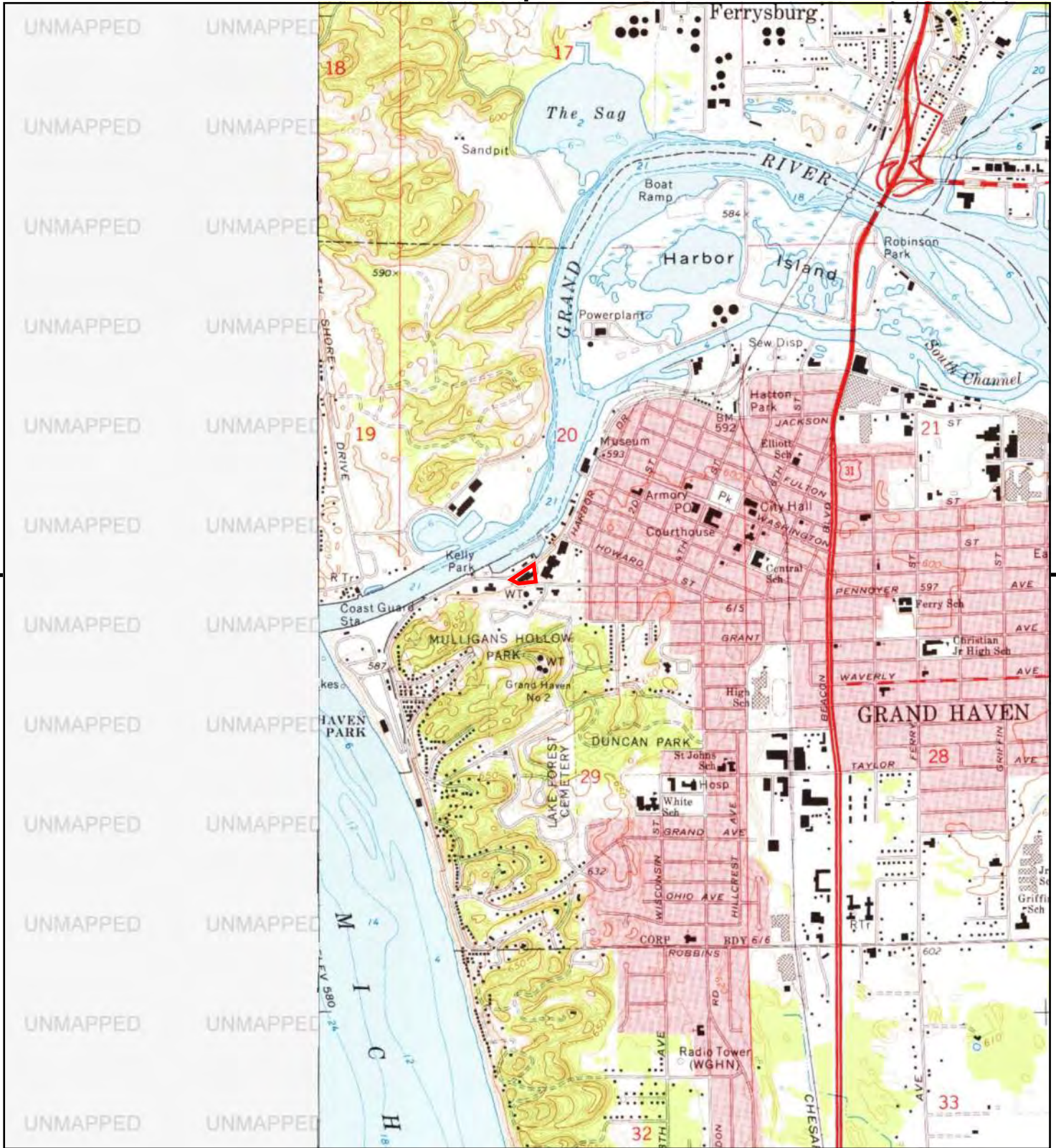
This report includes information from the following map sheet(s).



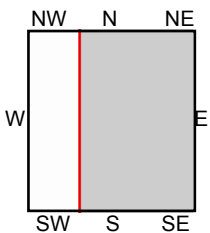
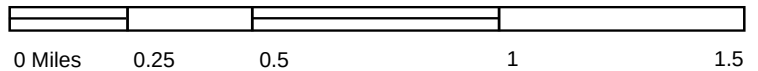
TP, Grand Haven, 1980, 7.5-minute

SITE NAME: 518 South Harbor Drive
 ADDRESS: 518 South Harbor Drive
 Grand Haven, MI 49417
 CLIENT: Fishbeck, Thompson, Carr & Huber





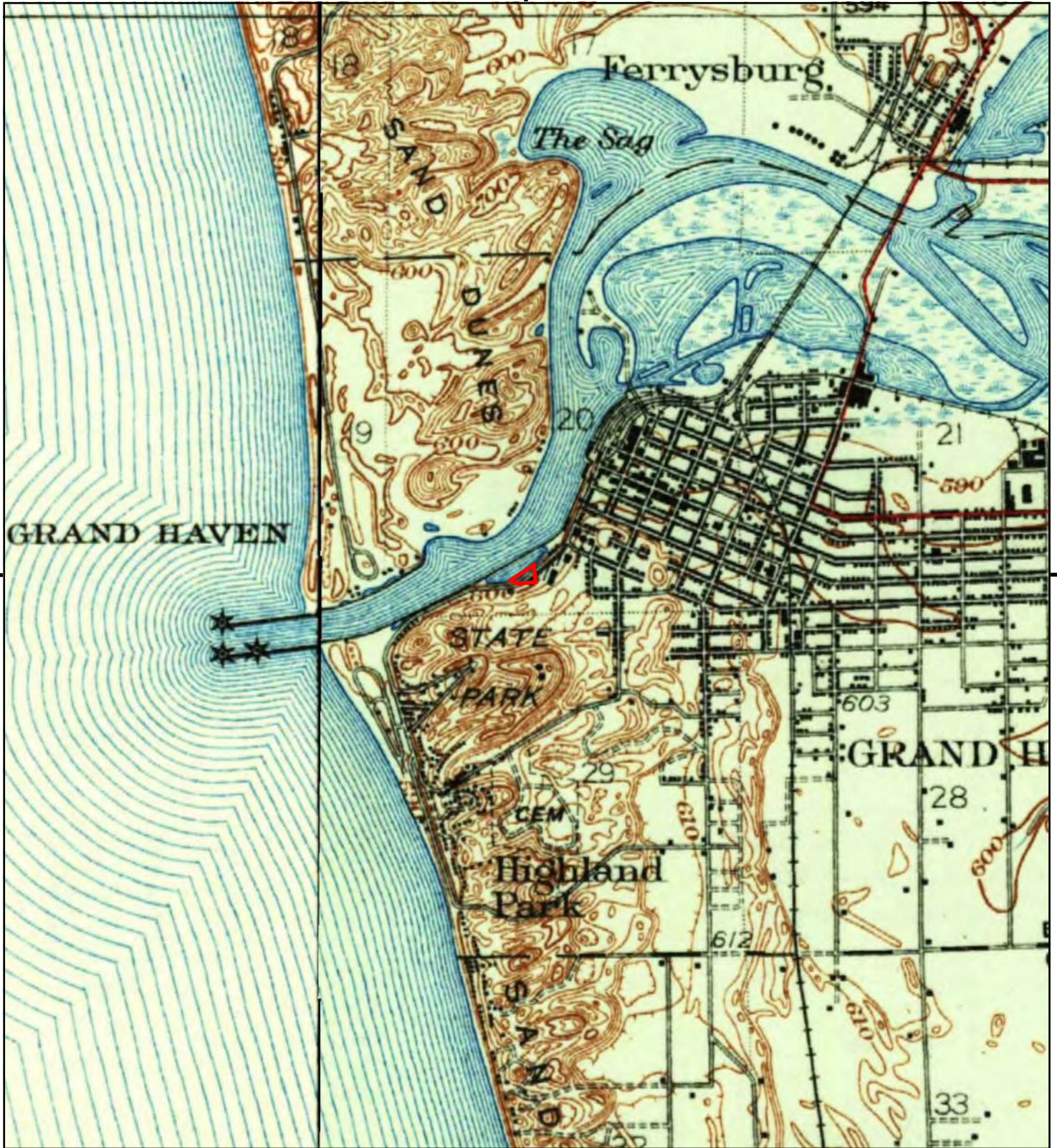
This report includes information from the following map sheet(s).



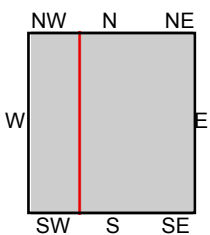
TP, Grand Haven, 1972, 7.5-minute

SITE NAME: 518 South Harbor Drive
 ADDRESS: 518 South Harbor Drive
 Grand Haven, MI 49417
 CLIENT: Fishbeck, Thompson, Carr & Huber





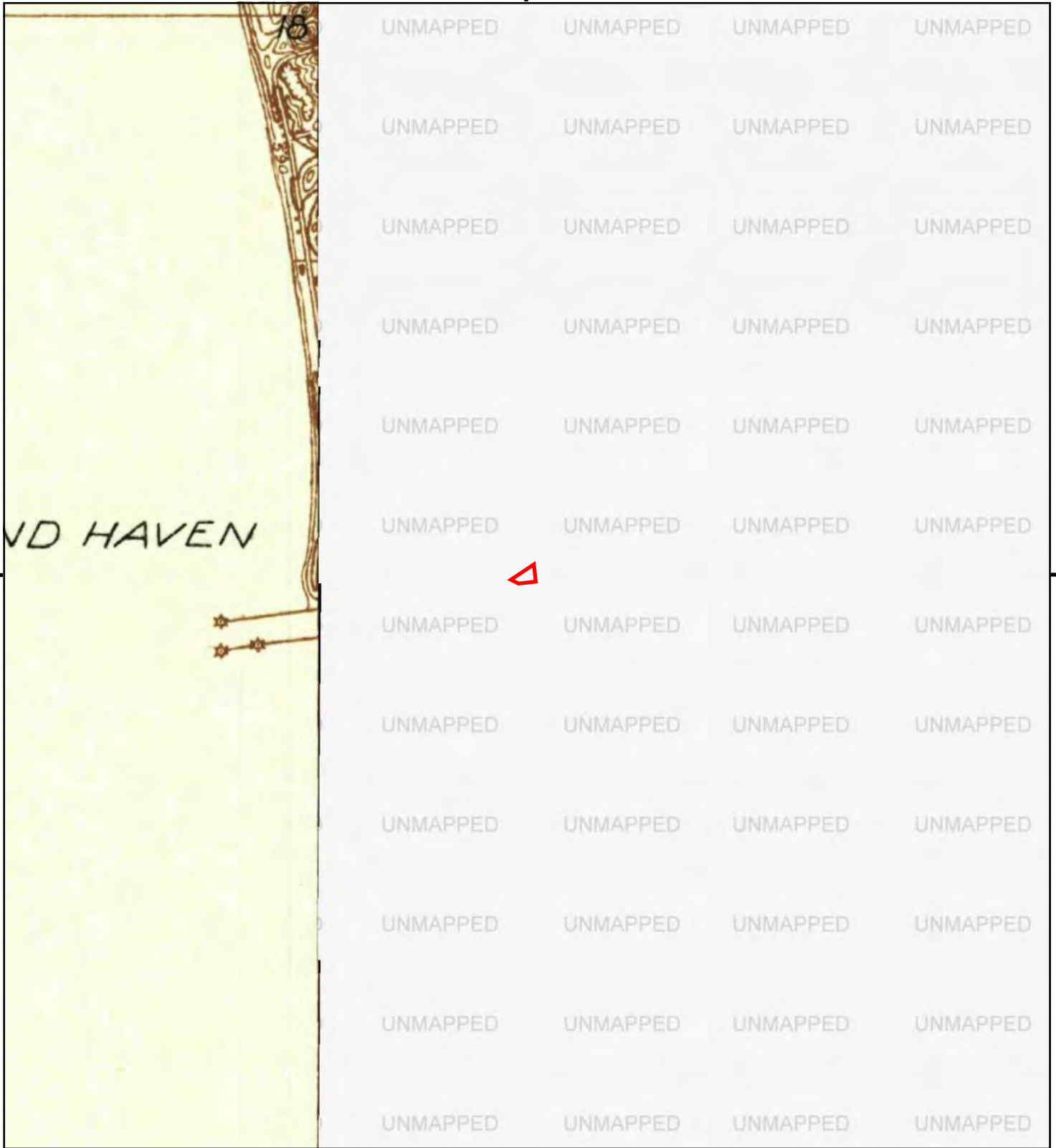
This report includes information from the following map sheet(s).



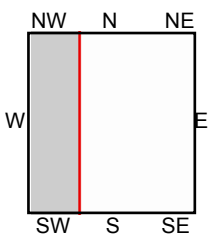
TP, Muskegon, 1936, 15-minute
NW, Lake Harbor, 1936, 15-minute

SITE NAME: 518 South Harbor Drive
ADDRESS: 518 South Harbor Drive
Grand Haven, MI 49417
CLIENT: Fishbeck, Thompson, Carr & Huber





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



NW, Lake Harbor, 1930, 15-minute

SITE NAME: 518 South Harbor Drive
ADDRESS: 518 South Harbor Drive
Grand Haven, MI 49417
CLIENT: Fishbeck, Thompson, Carr & Huber



Appendix 7

Former Grand Haven BLP Diesel Plant
518 S Harbor Dr
Grand Haven, MI 49417

Inquiry Number: 6676520.2s
September 24, 2021

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

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA™s Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), 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

518 S HARBOR DR
GRAND HAVEN, MI 49417

COORDINATES

Latitude (North): 43.0599120 - 43. 3™ 35.68™™
Longitude (West): 86.2380820 - 86. 14™ 17.09™™
Universal Tranverse Mercator: Zone 16
UTM X (Meters): 562044.2
UTM Y (Meters): 4767534.5
Elevation: 599 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 6065996 GRAND HAVEN, MI
Version Date: 2014

West Map: 6066038 GRAND HAVEN OE W, MI
Version Date: 2014

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from: 20140717, 20140721
Source: USDA

MAPPED SITES SUMMARY

Target Property Address:
518 S HARBOR DR
GRAND HAVEN, MI 49417

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	GRAND HAVEN BOARD OF	518 SOUTH HARBOR DRI	MI ASBESTOS		TP
A2	GRAND HAVEN BOARD OF	518 S HARBOR DRIVE	MI AIRS		TP
A3		518 SOUTH HARBOR	ERNS		TP
A4		518 SOUTH HARBOR DR	ERNS		TP
A5	DIESEL PLANT	518 S. HARBOR DR.	US AIRS		TP
A6		518 SOUTH HARBOR ROA	ERNS		TP
A7	DIESEL PLANT	518 SOUTH HARBOR DRI	FINDS, ECHO		TP
A8		518 SOUTH HARBOR	ERNS		TP
A9		518 SOUTH HARBOR/OUT	ERNS		TP
A10		518 SOUTH HARBOR	ERNS		TP
A11		518 S. HARBOR	ERNS		TP
A12	GRAND HAVEN BL&P	518 SOUTH HARBOR DRI	FINDS, ECHO		TP
A13	DIESEL GENERATING ST	518 S HARBOR DR	MI AST		TP
A14	GRAND HAVEN BL&P	518 S. HARBOR DR.	MI NPDES, MI WDS		TP
A15	DIESEL PLANT	518 S HARBOR DR	MI UST		TP
A16	GRAND HAVEN BOARD OF	518 SOUTH HARBOR DRI	MI INVENTORY		TP
A17		518 SOUTH HARBOR ST	ERNS		TP
A18	GRAND HAVEN DIESEL P	520 S. HARBOR AVENUE	FINDS	Lower	1 ft.
A19	US DEPT/HOMELAND SEC	601 S HARBOR DR	RCRA-VSQG, FINDS, ECHO	Lower	66, 0.013, NNW
B20	GRAND HAVEN BOARD OF	530 S HARBOR DR	MI LUST	Lower	130, 0.025, West
B21	GRAND HAVEN BOARD OF	530 S HARBOR DR	MI UST	Lower	130, 0.025, West
A22	CITY OF GRAND HAVEN	30 SHERMAN AVE	RCRA NonGen / NLR	Higher	152, 0.029, SSW
A23	NORTHWEST OTTAWA WAT	30 SHERMAN AVE	MI AST	Higher	152, 0.029, SSW
A24	NORTHWEST OTTAWA WAT	30 SHERMAN AVE	MI UST	Higher	152, 0.029, SSW
B25	US DEPT/HOMELAND SEC	701 S WATER ST	RCRA NonGen / NLR, FINDS, ECHO	Lower	335, 0.063, West
C26	NW OTTAWA WATER INTA	1001 S HARBOR DR	MI UST	Higher	346, 0.066, South
27	US DEPT/DEFENSE	307 S HARBOR DR	RCRA-VSQG, FINDS, ECHO, NY MANIFEST	Lower	365, 0.069, NNE
D28	US COAST GUARD STATI	650 SOUTH HARBOR DRI	MI INVENTORY, MI PART 201	Lower	412, 0.078, West
D29	US DEPT/HOMELAND SEC	650 S HARBOR DR	RCRA-VSQG, FINDS, ECHO, NY MANIFEST	Lower	412, 0.078, West
D30	US COAST GUARD - LUD	650 S HARBOR DR	RCRA NonGen / NLR	Lower	412, 0.078, West
C31	GRAND HAVEN BLP	MULLIGAN DRIVE	US BROWNFIELDS	Higher	459, 0.087, SSW
E32	AQUILA INC	310 S HARBOR DR	RCRA NonGen / NLR	Higher	939, 0.178, NE
E33	MICHIGAN GAS UTILITI	310 S HARBOR DR	RCRA NonGen / NLR, FINDS, ECHO	Higher	939, 0.178, NE
E34	310 SOUTH HARBOR DRI	310 SOUTH HARBOR DRI	MI INVENTORY	Higher	939, 0.178, NE
E35	MICHIGAN GAS UTILITI	310 S HARBOR DR	RCRA NonGen / NLR	Higher	939, 0.178, NE
E36	GRAND HAVEN GAS LIGH	310 S. HARBOR DRIVE	EDR MGP	Higher	939, 0.178, NE
E37	MICHIGAN GAS UTILITI	310 SOUTH HARBOR DRI	MI PART 201, MI INVENTORY, MI BEA	Higher	939, 0.178, NE
E38	MICHIGAN GAS UTILITI	310 S HARBOR DR	MI LUST, MI UST, MI WDS	Higher	939, 0.178, NE
F39	200 SOUTH HARBOR DRI	200 SOUTH HARBOR DRI	MI INVENTORY, MI BEA	Higher	1206, 0.228, NE

MAPPED SITES SUMMARY

Target Property Address:
518 S HARBOR DR
GRAND HAVEN, MI 49417

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
F40	NJM LLC	200 S HARBOR DR	MI UST	Higher	1206, 0.228, NE
F41	NJM LLC	200 S HARPER DR	RCRA NonGen / NLR	Lower	1297, 0.246, NE
42	NORTH SHORE MARINA I	18275 BERWYCK ST	MI LUST, MI UST, MI INVENTORY, MI SPILLS, MI...	Lower	1421, 0.269, NW
G43	WESSELS INC	102 HARBOR	MI LUST, MI UST, MI INVENTORY	Lower	1528, 0.289, NNE
G44	1 SOUTH HARBOR DRIVE	1 SOUTH HARBOR DRIVE	MI INVENTORY, MI BEA	Lower	1664, 0.315, NNE
45	33 FRANKLIN AVENUE	33 FRANKLIN AVENUE	MI INVENTORY, MI BEA	Lower	1776, 0.336, NE
H46	15 SOUTH 2ND STREET	15 SOUTH 2ND STREET	MI INVENTORY, MI BEA	Higher	2026, 0.384, NE
I47	HABOURFRONT PLACE	41 WASHINGTON AVENUE	MI PART 201, MI INVENTORY, MI BEA, MI NPDES	Lower	2080, 0.394, NE
I48	HARBOURFRONT PLACE	41 WASHINGTON STREET	MI INVENTORY	Lower	2080, 0.394, NE
J49	20 NORTH HARBOR DRIV	20 NORTH HARBOR DRIV	MI INVENTORY	Lower	2193, 0.415, NNE
H50	206 WASHINGTON STREE	206 WASHINGTON ST.	US BROWNFIELDS, FINDS	Higher	2267, 0.429, NE
J51	GRAND HAVEN MUNICIPA	101 N HARBOR DR	MI LUST, MI UST, MI INVENTORY, MI WDS	Lower	2283, 0.432, NNE
52	128 COLUMBUS AVENUE	128 COLUMBUS AVENUE	MI INVENTORY, MI BEA, MI WDS	Lower	2386, 0.452, NE
K53	233 WASHINGTON AVENU	233 WASHINGTON AVENU	MI INVENTORY	Higher	2493, 0.472, ENE
K54	233 WASHINGTON AVENU	233 WASHINGTON AVENU	MI BEA	Higher	2493, 0.472, ENE
K55	233 WASHINGTON AVENU	233 WASHINGTON AVENU	MI INVENTORY	Higher	2493, 0.472, ENE
56	JACKSON & 3RD STREET	JACKSON & 3RD STREET	MI PART 201, MI INVENTORY, MI BEA	Lower	3633, 0.688, NE
57	NEIDLINGER OIL CO	815 VERHOEKS	SEMS-ARCHIVE, MI INVENTORY, MI PART 201, MI WDS	Higher	4385, 0.830, ESE
58	SHELL OIL CO	740 N 3RD ST	MI LUST, MI UST, MI AUL, MI INVENTORY, MI PART...	Lower	4466, 0.846, NE
59	NATIONAL PRODUCTS DI	725 TAYLOR AVE	MI PART 201, MI INVENTORY, MI BEA, MI WDS	Higher	4550, 0.862, SE
60	OTTAWA STEEL PRODUCT	745 WOODLAWN	MI AUL, MI BROWNFIELDS, MI PART 201, MI INVENTORY,...	Higher	4577, 0.867, ESE
61	ADAMS ST. FACILITY -	ADAMS & FOURTH STREE	MI PART 201, MI INVENTORY, MI BEA	Lower	4808, 0.911, NE
62	OTTAWA COUNTY ROAD C	616 6TH STREET/625 M	MI PART 201, MI INVENTORY, MI BEA	Lower	4993, 0.946, NE

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
GRAND HAVEN BOARD OF 518 SOUTH HARBOR DRI GRAND HAVEN, MI 49417	MI ASBESTOS	N/A
GRAND HAVEN BOARD OF 518 S HARBOR DRIVE GRAND HAVEN, MI 49417	MI AIRS State Registration Id: N6524	N/A
518 SOUTH HARBOR 518 SOUTH HARBOR GRAND HAVEN, MI	ERNS NRC Report #: 387947 Incident Date Time: 1997-05-20 10:00:00	N/A
518 SOUTH HARBOR DR 518 SOUTH HARBOR DR GRAND HAVEN, MI 49417	ERNS NRC Report #: 639781 Incident Date Time: 2003-03-18 09:00:00	N/A
DIESEL PLANT 518 S. HARBOR DR. GRAND HAVEN, MI 49417	US AIRS Database: US AIRS (AFS), Date of Government Version: 10/12/2016 EPA plant ID:: 110013853419	N/A
518 SOUTH HARBOR ROA 518 SOUTH HARBOR ROA GRAND HAVEN, MI	ERNS NRC Report #: 427761 Incident Date Time: 1998-03-10 12:30:00	N/A
DIESEL PLANT 518 SOUTH HARBOR DRI GRAND HAVEN, MI 49417	FINDS Registry ID:: 110013853419 ECHO Registry ID: 110013853419	N/A
518 SOUTH HARBOR 518 SOUTH HARBOR GRAND HAVEN, MI 49417	ERNS NRC Report #: 418526 Incident Date Time: 1998-01-06 13:15:00	N/A
518 SOUTH HARBOR/OUT 518 SOUTH HARBOR/OUT GRAND HAVEN, MI	ERNS	N/A

EXECUTIVE SUMMARY

NRC Report #: 425639
Incident Date Time: 1998-02-23 13:05:00

518 SOUTH HARBOR
518 SOUTH HARBOR
GRAND HAVEN, MI

ERNS
NRC Report #: 426763
Incident Date Time: 1998-03-03 13:50:00

N/A

518 S. HARBOR
518 S. HARBOR
GRAND HAVEN, MI 49417

ERNS
NRC Report #: 389976
Incident Date Time: 1997-06-05 08:00:00

N/A

GRAND HAVEN BL&P
518 SOUTH HARBOR DRI
GRAND HAVEN, MI 49417

FINDS
Registry ID:: 110028295164

ECHO
Registry ID: 110028295164

N/A

DIESEL GENERATING ST
518 S HARBOR DR
GRAND HAVEN, MI 49417

MI AST
Facility Id: 91084753
Removed/Closed Date: 09/15/2020
Removed/Closed Date: 11/13/2006
Tank Status: Emptied and Cleaned

N/A

GRAND HAVEN BL&P
518 S. HARBOR DR.
GRAND HAVEN, MI 49417

MI NPDES
Permit Number: MI0058209
Permit Number: NEC186526

MI WDS
Site Id: MIG000021650
WMD Id: 452464

N/A

DIESEL PLANT
518 S HARBOR DR
GRAND HAVEN, MI 49417

MI UST
Database: UST, Date of Government Version: 04/26/2021
Tank Status: Removed from Ground
Facility Type: CLOSED
Facility Id: 00000426

N/A

GRAND HAVEN BOARD OF
518 SOUTH HARBOR DRI
GRAND HAVEN, MI 49417

MI INVENTORY
Facility ID: 70000409

N/A

518 SOUTH HARBOR ST
518 SOUTH HARBOR ST
GRAND HAVEN, MI

ERNS

N/A

EXECUTIVE SUMMARY

NRC Report #: 303239
Incident Date Time: 1995-08-08 10:00:00

DATABASES WITH NO MAPPED SITES

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

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

Federal Delisted NPL site list

Delisted NPL..... National Priority List Deletions

Federal CERCLIS list

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

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

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

Federal RCRA generators list

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

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

State- and tribal - equivalent CERCLIS

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

EXECUTIVE SUMMARY

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

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

State and tribal leaking storage tank lists

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

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing

INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

INDIAN VCP..... Voluntary Cleanup Priority Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Landfill / Solid Waste Disposal Sites

MI SWRCY..... Recycling Facilities

MI 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

MI CDL..... Clandestine Drug Lab Listing

MI DEL PART 201..... Delisted List of Contaminated Sites

US CDL..... National Clandestine Laboratory Register

MI PFAS..... PFAS Contaminated Sites Listing

Local Land Records

MI LIENS..... Lien List

LIENS 2..... CERCLA Lien Information

Records of Emergency Release Reports

HMIRS..... Hazardous Materials Information Reporting System

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

EXECUTIVE SUMMARY

TSCA.....	Toxic Substances Control Act
TRIS.....	Toxic Chemical Release Inventory System
SSTS.....	Section 7 Tracking Systems
ROD.....	Records Of Decision
RMP.....	Risk Management Plans
RAATS.....	RCRA Administrative Action Tracking System
PRP.....	Potentially Responsible Parties
PADS.....	PCB Activity Database System
ICIS.....	Integrated Compliance Information System
FTTS.....	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS.....	Material Licensing Tracking System
COAL ASH DOE.....	Steam-Electric Plant Operation Data
COAL ASH EPA.....	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER.....	PCB Transformer Registration Database
RADINFO.....	Radiation Information Database
HIST FTTS.....	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS.....	Incident and Accident Data
CONSENT.....	Superfund (CERCLA) Consent Decrees
INDIAN RESERV.....	Indian Reservations
FUSRAP.....	Formerly Utilized Sites Remedial Action Program
UMTRA.....	Uranium Mill Tailings Sites
LEAD SMELTERS.....	Lead Smelter Sites
US 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
MI COAL ASH.....	Coal Ash Disposal Sites
MI DRYCLEANERS.....	Drycleaning Establishments
MI LEAD.....	Lead Safe Housing Registry
MI UIC.....	Underground Injection Wells Database
MINES MRDS.....	Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto.....	EDR Exclusive Historical Auto Stations
EDR Hist Cleaner.....	EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

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

Federal RCRA generators list

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 03/22/2021 has revealed that there are 3 RCRA-VSQG sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>US DEPT/HOMELAND SEC</i> EPA ID:: MI4690390378	<i>601 S HARBOR DR</i>	<i>NNW 0 - 1/8 (0.013 mi.)</i>	<i>A19</i>	<i>52</i>
<i>US DEPT/DEFENSE</i> EPA ID:: MI4210890444	<i>307 S HARBOR DR</i>	<i>NNE 0 - 1/8 (0.069 mi.)</i>	<i>27</i>	<i>65</i>
<i>US DEPT/HOMELAND SEC</i> EPA ID:: MI2690390370	<i>650 S HARBOR DR</i>	<i>W 0 - 1/8 (0.078 mi.)</i>	<i>D29</i>	<i>70</i>

State and tribal leaking storage tank lists

MI 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 MI LUST list, as provided by EDR, and dated 05/06/2021 has revealed that there are 5 MI LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
<i>MICHIGAN GAS UTILITI</i> Release Status: Closed Facility Id: 00005084	<i>310 S HARBOR DR</i>	<i>NE 1/8 - 1/4 (0.178 mi.)</i>	<i>E38</i>	<i>97</i>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRAND HAVEN BOARD OF	530 S HARBOR DR	W 0 - 1/8 (0.025 mi.)	B20	55

EXECUTIVE SUMMARY

Release Status: Closed
Facility Id: 50000254

NORTH SHORE MARINA I	18275 BERWYCK ST	NW 1/4 - 1/2 (0.269 mi.)	42	106

Release Status: Open
Facility Id: 00003946

WESSELS INC	102 HARBOR	NNE 1/4 - 1/2 (0.289 mi.)	G43	114

Release Status: Open
Substance Release: Unknown
Facility Id: 00001092

GRAND HAVEN MUNICIPA	101 N HARBOR DR	NNE 1/4 - 1/2 (0.432 mi.)	J51	134

Release Status: Closed
Facility Id: 00034453

State and tribal registered storage tank lists

MI 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 MI UST list, as provided by EDR, has revealed that there are 5 MI UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NORTHWEST OTTAWA WAT Database: UST, Date of Government Version: 04/26/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00035423	30 SHERMAN AVE	SSW 0 - 1/8 (0.029 mi.)	A24	60
NW OTTAWA WATER INTA Database: UST, Date of Government Version: 04/26/2021 Tank Status: Removed from Ground Tank Status: NON-Registered Tank Facility Type: CLOSED Facility Type: Non-Registered Tank Facility Id: 00034259	1001 S HARBOR DR	S 0 - 1/8 (0.066 mi.)	C26	64
MICHIGAN GAS UTILITI Database: UST, Date of Government Version: 04/26/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00005084	310 S HARBOR DR	NE 1/8 - 1/4 (0.178 mi.)	E38	97
NJM LLC Database: UST, Date of Government Version: 04/26/2021 Tank Status: Removed from Ground Facility Type: CLOSED Facility Id: 00041532	200 S HARBOR DR	NE 1/8 - 1/4 (0.228 mi.)	F40	101
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRAND HAVEN BOARD OF Database: UST, Date of Government Version: 04/26/2021	530 S HARBOR DR	W 0 - 1/8 (0.025 mi.)	B21	56

EXECUTIVE SUMMARY

Tank Status: Non-Registered Tank
Facility Type: CLOSED
Facility Id: 50000254

MI AST: The Aboveground Storage Tank database contains registered ASTs. The data come from the Department of Natural Resources™ Michigan AST database.

A review of the MI AST list, as provided by EDR, and dated 05/25/2021 has revealed that there is 1 MI AST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
NORTHWEST OTTAWA WAT Facility Id: 91085006 Tank Status: Currently In Use	30 SHERMAN AVE	SSW 0 - 1/8 (0.029 mi.)	A23	59

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

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

A review of the US BROWNFIELDS list, as provided by EDR, and dated 06/10/2021 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRAND HAVEN BLP ACRES property ID: 203503 Cleanup Completion Date: -	MULLIGAN DRIVE	SSW 0 - 1/8 (0.087 mi.)	C31	77
206 WASHINGTON STREE ACRES property ID: 135841 Cleanup Completion Date: -	206 WASHINGTON ST.	NE 1/4 - 1/2 (0.429 mi.)	H50	125

Local Lists of Hazardous waste / Contaminated Sites

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

A review of the MI PART 201 list, as provided by EDR, and dated 10/01/2013 has revealed that there

EXECUTIVE SUMMARY

are 10 MI PART 201 sites within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MICHIGAN GAS UTILITI Facility Status: Interim Response in progress Facility ID: 70000083	310 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.178 mi.)	E37	96
NEIDLINGER OIL CO Facility Status: Interim Response conducted - No further activities anticipated Facility ID: 70000012	815 VERHOEKS	ESE 1/2 - 1 (0.830 mi.)	57	141
NATIONAL PRODUCTS DI Facility Status: Inactive - no actions taken to address contamination Facility ID: 70000414	725 TAYLOR AVE	SE 1/2 - 1 (0.862 mi.)	59	152
OTTAWA STEEL PRODUCT Facility Status: Evaluation conducted Facility ID: 70000043	745 WOODLAWN	ESE 1/2 - 1 (0.867 mi.)	60	154
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US COAST GUARD STATI Facility Status: Interim Response in progress Facility ID: 70000376	650 SOUTH HARBOR DRI	W 0 - 1/8 (0.078 mi.)	D28	69
HABOURFRONT PLACE Facility Status: Interim Response conducted - No further activities anticipated Facility ID: 70000325	41 WASHINGTON AVENUE	NE 1/4 - 1/2 (0.394 mi.)	I47	122
JACKSON & 3RD STREET Facility Status: Inactive - no actions taken to address contamination Facility ID: 70000322	JACKSON & 3RD STREET	NE 1/2 - 1 (0.688 mi.)	56	140
SHELL OIL CO Facility Status: Interim Response in progress Facility ID: 70000164	740 N 3RD ST	NE 1/2 - 1 (0.846 mi.)	58	143
ADAMS ST. FACILITY - Facility Status: Interim Response in progress Facility ID: 70000092	ADAMS & FOURTH STREE	NE 1/2 - 1 (0.911 mi.)	61	158
OTTAWA COUNTY ROAD C Facility Status: Interim Response conducted - No further activities anticipated Facility ID: 70000346	616 6TH STREET/625 M	NE 1/2 - 1 (0.946 mi.)	62	160

MI 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

EXECUTIVE SUMMARY

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 MI INVENTORY list, as provided by EDR, and dated 01/20/2021 has revealed that there are 16 MI INVENTORY sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
310 SOUTH HARBOR DRI Facility ID: 70000083	310 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.178 mi.)	E34	89
MICHIGAN GAS UTILITI Facility ID: 70000083	310 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.178 mi.)	E37	96
200 SOUTH HARBOR DRI	200 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.228 mi.)	F39	99
15 SOUTH 2ND STREET	15 SOUTH 2ND STREET	NE 1/4 - 1/2 (0.384 mi.)	H46	120
233 WASHINGTON AVENU	233 WASHINGTON AVENU	ENE 1/4 - 1/2 (0.472 mi.)	K53	137
233 WASHINGTON AVENU	233 WASHINGTON AVENU	ENE 1/4 - 1/2 (0.472 mi.)	K55	139
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US COAST GUARD STATI Facility ID: 70000376	650 SOUTH HARBOR DRI	W 0 - 1/8 (0.078 mi.)	D28	69
NORTH SHORE MARINA I Facility ID: 00003946	18275 BERWYCK ST	NW 1/4 - 1/2 (0.269 mi.)	42	106
WESSELS INC Facility ID: 00001092	102 HARBOR	NNE 1/4 - 1/2 (0.289 mi.)	G43	114
1 SOUTH HARBOR DRIVE	1 SOUTH HARBOR DRIVE	NNE 1/4 - 1/2 (0.315 mi.)	G44	118
33 FRANKLIN AVENUE Facility ID: 70000519	33 FRANKLIN AVENUE	NE 1/4 - 1/2 (0.336 mi.)	45	119
HABOURFRONT PLACE Facility ID: 70000325	41 WASHINGTON AVENUE	NE 1/4 - 1/2 (0.394 mi.)	I47	122
HARBOURFRONT PLACE Facility ID: 70000325	41 WASHINGTON STREET	NE 1/4 - 1/2 (0.394 mi.)	I48	124
20 NORTH HARBOR DRIV Facility ID: 70000791	20 NORTH HARBOR DRIV	NNE 1/4 - 1/2 (0.415 mi.)	J49	125
GRAND HAVEN MUNICIPA Facility ID: 00034453	101 N HARBOR DR	NNE 1/4 - 1/2 (0.432 mi.)	J51	134
128 COLUMBUS AVENUE Facility ID: 70000427	128 COLUMBUS AVENUE	NE 1/4 - 1/2 (0.452 mi.)	52	136

Other Ascertainable Records

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

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that

EXECUTIVE SUMMARY

there are 7 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
CITY OF GRAND HAVEN EPA ID:: MIK926196577	30 SHERMAN AVE	SSW 0 - 1/8 (0.029 mi.)	A22	57
AQUILA INC EPA ID:: MIK117881375	310 S HARBOR DR	NE 1/8 - 1/4 (0.178 mi.)	E32	82
MICHIGAN GAS UTILITI EPA ID:: MIP200000722	310 S HARBOR DR	NE 1/8 - 1/4 (0.178 mi.)	E33	85
MICHIGAN GAS UTILITI EPA ID:: MIR000020057	310 S HARBOR DR	NE 1/8 - 1/4 (0.178 mi.)	E35	89
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US DEPT/HOMELAND SEC EPA ID:: MI2690308497	701 S WATER ST	W 0 - 1/8 (0.063 mi.)	B25	61
US COAST GUARD - LUD EPA ID:: MIK682678949	650 S HARBOR DR	W 0 - 1/8 (0.078 mi.)	D30	74
NJM LLC EPA ID:: MIK192579233	200 S HARPER DR	NE 1/8 - 1/4 (0.246 mi.)	F41	103

FINDS: The Facility Index System contains both facility information and "pointers" to other sources of information that contain more detail. These include: RCRIS; Permit Compliance System (PCS); Aerometric Information Retrieval System (AIRS); FATES (FIFRA [Federal Insecticide Fungicide Rodenticide Act] and TSCA Enforcement System, FTTS [FIFRA/TSCA Tracking System]; CERCLIS; DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes); Federal Underground Injection Control (FURS); Federal Reporting Data System (FRDS); Surface Impoundments (SIA); TSCA Chemicals in Commerce Information System (CICS); PADS; RCRA-J (medical waste transporters/disposers); TRIS; and TSCA. The source of this database is the U.S. EPA/NTIS.

A review of the FINDS list, as provided by EDR, and dated 05/05/2021 has revealed that there is 1 FINDS site within approximately 0.001 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRAND HAVEN DIESEL P Registry ID:: 110028026552	520 S. HARBOR AVENUE	0 - 1/8 (0.000 mi.)	A18	52

MI 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 MI BEA list, as provided by EDR, and dated 05/11/2021 has revealed that there are 8 MI BEA sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
MICHIGAN GAS UTILITI	310 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.178 mi.)	E37	96
200 SOUTH HARBOR DRI	200 SOUTH HARBOR DRI	NE 1/8 - 1/4 (0.228 mi.)	F39	99
15 SOUTH 2ND STREET	15 SOUTH 2ND STREET	NE 1/4 - 1/2 (0.384 mi.)	H46	120
233 WASHINGTON AVENUE	233 WASHINGTON AVENUE	ENE 1/4 - 1/2 (0.472 mi.)	K54	137
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
1 SOUTH HARBOR DRIVE	1 SOUTH HARBOR DRIVE	NNE 1/4 - 1/2 (0.315 mi.)	G44	118

EXECUTIVE SUMMARY

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
33 FRANKLIN AVENUE	33 FRANKLIN AVENUE	NE 1/4 - 1/2 (0.336 mi.)	45	119
HABOURFRONT PLACE	41 WASHINGTON AVENUE	NE 1/4 - 1/2 (0.394 mi.)	147	122
128 COLUMBUS AVENUE	128 COLUMBUS AVENUE	NE 1/4 - 1/2 (0.452 mi.)	52	136

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

A review of the NY MANIFEST list, as provided by EDR, and dated 01/01/2019 has revealed that there are 2 NY MANIFEST sites within approximately 0.25 miles of the target property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
US DEPT/DEFENSE EPA ID: MI4210890444	307 S HARBOR DR	NNE 0 - 1/8 (0.069 mi.)	27	65
US DEPT/HOMELAND SEC EPA ID: MI2690390370	650 S HARBOR DR	W 0 - 1/8 (0.078 mi.)	D29	70

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: 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.

A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction / Distance</u>	<u>Map ID</u>	<u>Page</u>
GRAND HAVEN GAS LIGH	310 S. HARBOR DRIVE	NE 1/8 - 1/4 (0.178 mi.)	E36	96

EXECUTIVE SUMMARY

There were no unmapped sites in this report.

OVERVIEW MAP - 6676520.2S



 Target Property

 Sites at elevations higher than or equal to the target property

 Sites at elevations lower than the target property

 Manufactured Gas Plants

 National Priority List Sites

 Dept. Defense Sites

 Indian Reservations BIA

 Power transmission lines

 Special Flood Hazard Area (1%)

 0.2% Annual Chance Flood Hazard

 National Wetland Inventory

 State Wetlands

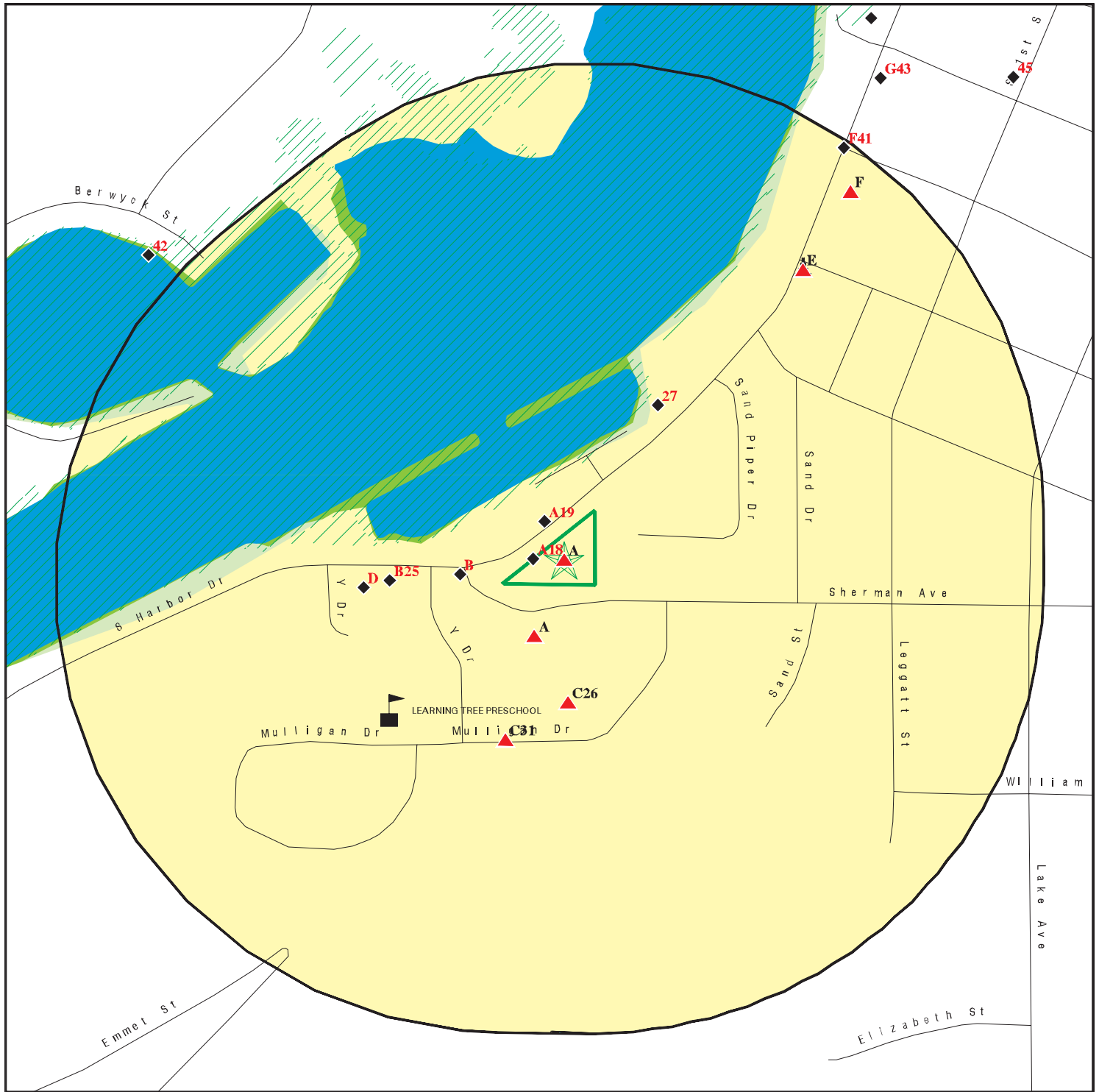
0 1/4 1/2 1 Miles

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

SITE NAME: Former Grand Haven BLP Diesel Plant
ADDRESS: 518 S Harbor Dr
Grand Haven MI 49417
LAT/LONG: 43.059912 / 86.238082

CLIENT: Fishbeck, Thompson, Carr & Huber
CONTACT: Ariane Savoy
INQUIRY #: 6676520.2s
DATE: September 24, 2021 3:07 pm

DETAIL MAP - 6676520.2S



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

-  Indian Reservations BIA
-  Special Flood Hazard Area (1%)
-  0.2% Annual Chance Flood Hazard
-  National Wetland Inventory
-  State Wetlands

0 1/16 1/8 1/4 Miles

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

SITE NAME: Former Grand Haven BLP Diesel Plant
 ADDRESS: 518 S Harbor Dr
 Grand Haven MI 49417
 LAT/LONG: 43.059912 / 86.238082

CLIENT: Fishbeck, Thompson, Carr & Huber
 CONTACT: Ariane Savoy
 INQUIRY #: 6676520.2s
 DATE: September 24, 2021 3:09 pm

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
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
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250		0	0	NR	NR	NR	0
RCRA-VSQG	0.250		3	0	NR	NR	NR	3
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	8	0	NR	NR	NR	NR	8
State- and tribal - equivalent CERCLIS								
MI SHWS	1.000		0	0	0	0	NR	0
State and tribal landfill and/or solid waste disposal site lists								
MI SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
MI LUST	0.500		1	1	3	NR	NR	5
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
MI UST	0.250	1	3	2	NR	NR	NR	6
MI AST	0.250	1	1	0	NR	NR	NR	2
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
MI AUL	0.500		0	0	0	NR	NR	0
State and tribal voluntary cleanup sites								
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
MI BROWNFIELDS	0.500		0	0	0	NR	NR	0
<u>ADDITIONAL ENVIRONMENTAL RECORDS</u>								
Local Brownfield lists								
US BROWNFIELDS	0.500		1	0	1	NR	NR	2
Local Lists of Landfill / Solid Waste Disposal Sites								
MI SWRCY	0.500		0	0	0	NR	NR	0
MI 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
MI PART 201	1.000		1	1	1	7	NR	10
MI INVENTORY	0.500	1	1	3	12	NR	NR	17
MI CDL	0.001		0	NR	NR	NR	NR	0
MI DEL PART 201	1.000		0	0	0	0	NR	0
US CDL	0.001		0	NR	NR	NR	NR	0
MI PFAS	0.500		0	0	0	NR	NR	0
Local Land Records								
MI 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		0	NR	NR	NR	NR	0
MI SPILLS	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		3	4	NR	NR	NR	7
FUDS	1.000		0	0	0	0	NR	0
DOD	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
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		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
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	1	0	NR	NR	NR	NR	1
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001	2	1	NR	NR	NR	NR	3
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001	2	0	NR	NR	NR	NR	2
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
MI AIRS	0.001	1	0	NR	NR	NR	NR	1
MI ASBESTOS	0.001	1	0	NR	NR	NR	NR	1
MI BEA	0.500		0	2	6	NR	NR	8
MI COAL ASH	0.500		0	0	0	NR	NR	0
MI DRYCLEANERS	0.250		0	0	NR	NR	NR	0
MI Financial Assurance	0.001		0	NR	NR	NR	NR	0
MI LEAD	0.001		0	NR	NR	NR	NR	0
NY MANIFEST	0.250		2	0	NR	NR	NR	2
MI NPDES	0.001	1	0	NR	NR	NR	NR	1
MI UIC	0.001		0	NR	NR	NR	NR	0
MI WDS	0.001	1	0	NR	NR	NR	NR	1
MINES MRDS	0.001		0	NR	NR	NR	NR	0

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	1.000		0	1	0	0	NR	1

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
<u>EDR RECOVERED GOVERNMENT ARCHIVES</u>								
<i>Exclusive Recovered Govt. Archives</i>								
MI RGA PART 201	0.001		0	NR	NR	NR	NR	0
MI RGA LF	0.001		0	NR	NR	NR	NR	0
MI RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		20	17	14	23	7	0	81

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

	Site	Database(s)	EDR ID Number EPA ID Number
A1 Target Property	GRAND HAVEN BOARD OF LIGHT AND POWE 518 SOUTH HARBOR DRIVE GRAND HAVEN, MI 49417	MI ASBESTOS	S119791302 N/A

Site 1 of 22 in cluster A

Actual: 599 ft.	ASBESTOS:	
	Notification ID:	121672
	Name:	GRAND HAVEN BOARD OF LIGHT AND POWE
	Address:	518 SOUTH HARBOR DRIVE
	City,State,Zip:	GRAND HAVEN, MI 49417
	Contractor Name:	Insulation & Environmental Services, Inc.
	Project Number:	338
	Notification Type and Date:	Regular 10/18/2016
	Start Date:	11/14/2016
	End Date:	11/16/2016
	Linear Feet:	260
	Square Feet:	Not reported

A2 Target Property	GRAND HAVEN BOARD OF LIGHT & POWER 518 S HARBOR DRIVE GRAND HAVEN, MI 49417	MI AIRS	S117663359 N/A

Site 2 of 22 in cluster A

Actual: 599 ft.	AIRS:	
	Name:	GRAND HAVEN BOARD OF LIGHT & POWER
	Address:	518 S HARBOR DRIVE
	City,State,Zip:	GRAND HAVEN, MI 49417
	State Registration Number:	N6524
	Naics Code:	Not reported
	Contact Email:	jchandler@ghblp.org
	Contact Name:	JEFF CHANDLER
	Contact Phone:	6166071285
	Contact Address:	1700 ESTON DRIVE
	Contact City,St,Zip:	GRAND HAVEN, MI 49417
	Permit Number:	164-14
	Date Received:	09/22/2014
	Application Reason:	FOUR DIESEL ENGINES
	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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BOARD OF LIGHT & POWER (Continued)

S117663359

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

A3
Target
Property

518 SOUTH HARBOR
GRAND HAVEN, MI

ERNS 97387947
N/A

Site 3 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 387947
Description of Incident: COOLER/LEAK IN COOLER UNIT
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 1997-05-20 10:00:00
Incident DTG: OCCURRED
Incident Location: Not reported
Location Address: 518 SOUTH HARBOR
Location Street 1: DISCHARGE AT CG STATION
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: Not reported
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: Not reported

Incidents:
NRC Report #: 387947
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97387947

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
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97387947

Transit Bus Flag:	Not reported
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 #:	387947
Fire Involved:	N
Fire Extinguished:	Not reported
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
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:	Not reported
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:	Not reported
Track Closed:	Not reported
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Not reported
Estimated Duration of Release:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97387947

Release rate:	Not reported
Desc Remedial Action:	Not reported
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	Not reported
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:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
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:	Not reported
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	387947
Site ID:	97387947
Date Time Received:	1997-05-20 10:09:41
Date Time Complete:	1997-05-20 10:21:08
Call Type:	INC
Responsible Company:	GRAND HAVEN BD OF LT&PWR
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	GRAND HAVEN
Responsible State:	MI
Responsible Zip:	49417
On Behalf:	Not reported
Source:	UNAVAILABLE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97387947

Material Involved:
NRC Report #: 387947
Chris Code: OLB
Case Number: Not reported
UN Number: Not reported
Amount of Material: 3
Unit of Measure: GALLON(S)
Name of Material: OIL, MISC: LUBRICATING
If Reached Water: YES
Amount in Water: 3
Unit of Measure Reach Water: GALLON(S)

A4
Target
Property

518 SOUTH HARBOR DR
GRAND HAVEN, MI 49417

ERNS 2003639781
N/A

Site 4 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 639781
Description of Incident: USCG REPORTED UNKNOWN SHEEN NEAR DISCHARGE PIPE . SHUT DOWN RAW WATER PUMP. INVESTIGATION WAS CONDUCTED BY COMPANY AND USCG REPS.
Type of Incident: UNKNOWN SHEEN
Incident Cause: UNKNOWN
Incident Date Time: 2003-03-18 09:00:00
Incident DTG: DISCOVERED
Incident Location: UNKNOWN SHEEN INCIDENT
Loaction Address: 518 SOUTH HARBOR DR
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: 49417
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: Not reported

Incidents:
NRC Report #: 639781
Aircraft Type: Not reported
Aircraft Model: Not reported
Aircraft ID: Not reported
Aircraft Fuel Capacity: Not reported
Aircraft Fuel Capacity Units: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2003639781

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
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:	N
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:	N
Description of Tank:	Not reported
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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	U
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2003639781

Transit Bus Flag:	Not reported
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 #:	639781
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:	GRAND RIVER > LAKE MICHIGAN
Body of Water:	GRAND RIVER
Tributary of:	LAKE MICHIGAN
Release Secured:	U
Estimated Duration of Release:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2003639781

Release rate: Not reported
Desc Remedial Action: BOOMS APPLIED, ABSORBENTS APPLIED, MATERIAL CONTAINED, SHUTDOWN SYSTEM, INVESTIGATION UNDERWAY
State Agency on Scene: Not reported
State Agency Report Number: NO REPORT #
Other Agency Notified: Not reported
Weather Conditions: OVERCAST
Air Temperature: 45
Wind Speed: 15
Wind Direction: NNE
Water Supply Contaminated: N
Sheen Size: Not reported
Sheen Color: RAINBOW
Direction of Sheen Travel: SSW
Sheen Odor Description: FUEL OILISH
Wave Condition: 1 SMOOTH (< 1 FT)
Current Speed: Not reported
Current Direction: SSW
Water Temperature: Not reported
Track Close Dir: Not reported
Empl Fatality: Not reported
Pass Fatality: Not reported
Community Impact: N
Wind Speed Unit: MPH
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 HAD NO ADDITIONAL INFORMATION
State Agency Notified: DEQ
Federal Agency Notified: USCG
nearest River Mile Marker: Not reported
Sheen Size Length: 25
Sheen Size Length Units: YARDS
Sheen Size Width: 2
Sheen Size Width Units: YARDS
Offshore: N
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 639781
Site ID: 2003639781
Date Time Received: 2003-03-18 10:01:00
Date Time Complete: 2003-03-18 10:13:50
Call Type: INC
Responsible Company: GRANDHAVEN BOARD OF LIGHT AND POWER
Responsible Org Type: PUBLIC UTILITY
Responsible City: GRAND HAVEN
Responsible State: MI
Responsible Zip: 49417
On Behalf: Y

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

2003639781

Source: TELEPHONE

Material Involved:

NRC Report #: 639781
Chris Code: OUN
Case Number: 000000-00-0
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: UNKNOWN OIL
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: UNKNOWN AMOUNT

A5 DIESEL PLANT
Target 518 S. HARBOR DR.
Property GRAND HAVEN, MI 49417

US AIRS 1011993559
N/A

Site 5 of 22 in cluster A

Actual:
599 ft.

US AIRS (AFS):

Envid: 1011993559
Region Code: 05
County Code: MI139
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
D and B Number: Not reported
Facility Site Name: DIESEL PLANT
Primary SIC Code: Not reported
NAICS Code: 221112
Default Air Classification Code: SMI
Facility Type of Ownership Code: Not reported
Air CMS Category Code: SMI
HPV Status: Not reported

US AIRS (AFS):

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2015-07-20 00:00:00
Activity Status Date: 2015-09-15 13:00:21
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Active

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2011-06-07 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

1011993559

Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2011-06-09 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2012-06-20 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2012-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V
Activity Date: 2013-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI000000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: Federally-Enforceable State Operating Permit - Non Title V

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

1011993559

Activity Date:	2014-08-26 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR MI000000000000N6524
Facility Registry ID:	110013853419
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2015-07-20 00:00:00
Activity Status Date:	2015-09-15 13:00:21
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Active
Region Code:	05
Programmatic ID:	AIR MI000000000000N6524
Facility Registry ID:	110013853419
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2011-06-07 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR MI000000000000N6524
Facility Registry ID:	110013853419
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2011-06-09 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR MI000000000000N6524
Facility Registry ID:	110013853419
Air Operating Status Code:	OPR
Default Air Classification Code:	SMI
Air Program:	State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date:	2012-06-20 00:00:00
Activity Status Date:	Not reported
Activity Group:	Compliance Monitoring
Activity Type:	Inspection/Evaluation
Activity Status:	Not reported
Region Code:	05
Programmatic ID:	AIR MI000000000000N6524
Facility Registry ID:	110013853419

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

1011993559

Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2012-06-22 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI00000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2013-09-10 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

Region Code: 05
Programmatic ID: AIR MI00000000000N6524
Facility Registry ID: 110013853419
Air Operating Status Code: OPR
Default Air Classification Code: SMI
Air Program: State Implementation Plan for National Primary and Secondary Ambient Air Quality Standards
Activity Date: 2014-08-26 00:00:00
Activity Status Date: Not reported
Activity Group: Compliance Monitoring
Activity Type: Inspection/Evaluation
Activity Status: Not reported

A6
Target
Property

518 SOUTH HARBOR ROAD
GRAND HAVEN, MI

ERNS 98427761
N/A

Site 6 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 427761
Description of Incident: UNKNOWN/UNKNOWN SHEEN, SHEEN SIZE: SPOTTY AREA WITHIN A 10FT X 50FTCONTAINMENT AREA /COLOR: RAINBOW
Type of Incident: UNKNOWN SHEEN
Incident Cause: UNKNOWN
Incident Date Time: 1998-03-10 12:30:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Location Address: 518 SOUTH HARBOR ROAD
Location Street 1: GRANDRIVER NEAR MOUTH
Location Street 2: OF GRAND RIVER (LDB)
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: Not reported
Distance From City: Not reported
Distance Units: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98427761

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: Not reported

Incidents:

NRC Report #: 427761
Aircraft Type: UNKNOWN
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
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: UNKNOWN
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: UNKNOWN
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: U
Pipeline Covered: U
Railroad Hotline: N
Grade Crossing: N
Location Subdivision: Not reported
Railroad Milepost: UNKNOWN
Type Vehicle Involved: UNKNOWN
Crossing Device Type: Not reported
Device Operational: Y
DOT Crossing Number: Not reported
Brake Failure: N
Description of Tank: Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98427761

Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSF 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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
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
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 #:	427761
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98427761

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:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	BOOMED SHEEN TO CONTAIN / ATTEMPTS TO RECOVER WITH ABSORBENT PADS HAVE BEEN UNSUCCESSFUL DUE TO LIMITED AMOUNT OF OIL
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
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:	N
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:	EMPLOYEES NOTICED SHEEN 10MAR98 AND INFORMED CALLER THIS DATE WILL NOTIFY: DEQ
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98427761

Sheen Size Length Units: Not reported
Sheen Size Width: Not reported
Sheen Size Width Units: Not reported
Offshore: Y
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 427761
Site ID: 98427761
Date Time Received: 1998-03-11 10:40:29
Date Time Complete: 1998-03-11 10:51:51
Call Type: INC
Responsible Company: Not reported
Responsible Org Type: UNKNOWN
Responsible City: Not reported
Responsible State: XX
Responsible Zip: Not reported
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:

NRC Report #: 427761
Chris Code: OUN
Case Number: Not reported
UN Number: Not reported
Amount of Material: 0
Unit of Measure: UNKNOWN AMOUNT
Name of Material: UNKNOWN OIL
If Reached Water: YES
Amount in Water: 0
Unit of Measure Reach Water: UNKNOWN AMOUNT

A7 DIESEL PLANT
Target 518 SOUTH HARBOR DRIVE
Property GRAND HAVEN, MI 49417

FINDS 1006826277
ECHO N/A

Site 7 of 22 in cluster A

Actual: FINDS:
599 ft. Registry ID: 110013853419

[Click Here:](#)

Environmental Interest/Information System:

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

1006826277

redesign to support facility operating permits required under Title V of the Clean Air Act.

AIR SYNTHETIC MINOR

HAZARDOUS AIR POLLUTANT MAJOR

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

ECHO:

Envid: 1006826277
Registry ID: 110013853419
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110013853419>
Name: DIESEL PLANT
Address: 518 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417

A8

Target
Property

518 SOUTH HARBOR
GRAND HAVEN, MI 49417

ERNS 98418526
N/A

Site 8 of 22 in cluster A

Actual:
599 ft.

Incident Commons:

NRC Report #: 418526
Description of Incident: 20 INCH DISCHARGE LINE / CONTRACTOR WAS INSTALLING A WATER SEPERATORSYSTEM / RELEASE OCCURRED DURING TESTING OF SYSTEM
Type of Incident: FIXED
Incident Cause: OPERATOR ERROR
Incident Date Time: 1998-01-06 13:15:00
Incident DTG: OCCURRED
Incident Location: Not reported
Loaction Address: 518 SOUTH HARBOR
Location Street 1: DIESEL POWER PLANT
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: 49417
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: Not reported

Incidents:

NRC Report #: 418526
Aircraft Type: UNKNOWN
Aircraft Model: Not reported
Aircraft ID: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98418526

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
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
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
OCSF 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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98418526

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
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 #:	418526
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
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:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER
Body of Water:	Not reported
Tributary of:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98418526

Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: BOOM HAS BEEN DEPLOYED / USING SORBENT MATERIAL TO RECOVER MATERIAL
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
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: N
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: SHEEN SIZE: 100 SQ FEET SHEEN COLOR: RAINBOWCALLER SAYS THE MATERIAL IS EITHER DIESEL OR LUBE OIL

State Agency Notified: Not reported
Federal Agency Notified: Not reported
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: UNK

Calls:

NRC Report #: 418526
Site ID: 98418526
Date Time Received: 1998-01-06 13:23:27
Date Time Complete: 1998-01-06 13:29:23
Call Type: INC
Responsible Company: GRAND HAVEN BD OF LT&PWR
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: GRAND HAVEN
Responsible State: MI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98418526

Responsible Zip: 49417
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 418526
Chris Code: OUN
Case Number: Not reported
UN Number: Not reported
Amount of Material: 1
Unit of Measure: GALLON(S)
Name of Material: UNKNOWN OIL
If Reached Water: YES
Amount in Water: 1
Unit of Measure Reach Water: GALLON(S)

A9
Target
Property

518 SOUTH HARBOR/OUTFALL
GRAND HAVEN, MI

ERNS 98425639
N/A

Site 9 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 425639
Description of Incident: COOLING WATER DISCHARGE/RUNNING DIESEL ENGINES AT THE TIME OF DISCOVERY
Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 1998-02-23 13:05:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 518 SOUTH HARBOR/OUTFALL
Location Street 1: APPROX 1 MI FROM MOUTH OF
Location Street 2: GRAND RIVER AT LAKE MICH.
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: Not reported
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: Not reported
Incidents:
NRC Report #: 425639
Aircraft Type: UNKNOWN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98425639

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
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
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
OCSF 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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98425639

Airbag Deployed:	Not reported
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
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 #:	425639
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
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:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98425639

Body of Water: Not reported
Tributary of: Not reported
Release Secured: U
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: ATTEMPTING TO BOOM MATERIAL / WILL DETERMINE IF MATERIAL IS RECOVERABLE
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
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: N
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: SHEEN SIZE:100FT X 200FT/ COLOR:RAINBOWWILL NOTIFY: DEQ
State Agency Notified: Not reported
Federal Agency Notified: Not reported
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: UNK

Calls:

NRC Report #: 425639
Site ID: 98425639
Date Time Received: 1998-02-23 13:35:35
Date Time Complete: 1998-02-23 13:44:21
Call Type: INC
Responsible Company: GRAND HAVEN BD OF LT&PWR
Responsible Org Type: PUBLIC UTILITY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98425639

Responsible City: GRAND HAVEN
Responsible State: MI
Responsible Zip: 49417
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 425639
Chris Code: OLB
Case Number: Not reported
UN Number: Not reported
Amount of Material: 10
Unit of Measure: GALLON(S)
Name of Material: OIL, MISC: LUBRICATING
If Reached Water: YES
Amount in Water: 10
Unit of Measure Reach Water: GALLON(S)

A10
Target
Property

518 SOUTH HARBOR
GRAND HAVEN, MI

ERNS 98426763
N/A

Site 10 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 426763
Description of Incident: DIESEL PLANT (EXACT SOURCE UNKNOWN) / CAUSE IS UNKNOWN, OCCURRED
WHILERUNNING COOLING WATER
Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 1998-03-03 13:50:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 518 SOUTH HARBOR
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: Not reported
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: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98426763

Incidents:

NRC Report #: 426763
Aircraft Type: UNKNOWN
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
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: UNKNOWN
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: UNKNOWN
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: U
Pipeline Covered: U
Railroad Hotline: N
Grade Crossing: N
Location Subdivision: Not reported
Railroad Milepost: UNKNOWN
Type Vehicle Involved: UNKNOWN
Crossing Device Type: Not reported
Device Operational: Y
DOT Crossing Number: Not reported
Brake Failure: N
Description of Tank: Not reported
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
OCSF 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: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98426763

Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
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
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 #:	426763
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98426763

Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	CONTAINED WITHIN A BOOM / APPEARS TO BE UNRECOVERABLE / INVESTIGATING THE SOURCE
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
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:	N
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:	SHEEN SIZE: 10FT X 40FT RAINBOW IN COLORWX/CURRENT:N/A COVER:MOSTLY TEMP:33
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
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:	UNK
Calls:	
NRC Report #:	426763
Site ID:	98426763
Date Time Received:	1998-03-03 14:41:37

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

98426763

Date Time Complete: 1998-03-03 14:49:47
Call Type: INC
Responsible Company: GRAND HAVEN BOARD LT&PWR
Responsible Org Type: PUBLIC UTILITY
Responsible City: GRAND HAVEN
Responsible State: MI
Responsible Zip: 49417
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 426763
Chris Code: OLB
Case Number: Not reported
UN Number: Not reported
Amount of Material: 2
Unit of Measure: QUART(S)
Name of Material: OIL, MISC: LUBRICATING
If Reached Water: YES
Amount in Water: 2
Unit of Measure Reach Water: QUART(S)

A11

Target
Property

518 S. HARBOR
GRAND HAVEN, MI 49417

ERNS 97389976
N/A

Site 11 of 22 in cluster A

Actual:
599 ft.

Incident Commons:
NRC Report #: 389976
Description of Incident: DIESEL ENGINE/DISCHARGE OF OIL DISCOVERED
Type of Incident: FIXED
Incident Cause: UNKNOWN
Incident Date Time: 1997-06-05 08:00:00
Incident DTG: OCCURRED
Incident Location: Not reported
Location Address: 518 S. HARBOR
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: 49417
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97389976

Location range: Not reported
Potential Range: Not reported

Incidents:

NRC Report #: 389976
Aircraft Type: UNKNOWN
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
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: UNKNOWN
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: UNKNOWN
DOT Regulated: U
Pipeline Above Ground: ABOVE
Exposed Underwater: U
Pipeline Covered: U
Railroad Hotline: N
Grade Crossing: N
Location Subdivision: Not reported
Railroad Milepost: UNKNOWN
Type Vehicle Involved: UNKNOWN
Crossing Device Type: Not reported
Device Operational: Y
DOT Crossing Number: Not reported
Brake Failure: N
Description of Tank: Not reported
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
OCSF 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97389976

Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
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
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 #:	389976
Fire Involved:	N
Fire Extinguished:	U
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97389976

Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	GRAND RIVER
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	U
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	SPILL IS INSIDE CONTAINMENT BOOM, ABSORBENTS DEPLOYED
State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
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:	N
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:	SHEEN SIZE:10™X50™, RAINBOW COLORWILL NOTIFY:STATE DEP
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
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:	UNK

Calls:

NRC Report #:	389976
Site ID:	97389976
Date Time Received:	1997-06-05 08:25:39

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

97389976

Date Time Complete: 1997-06-05 08:30:35
Call Type: INC
Responsible Company: GRAND HAVEN BD OF LT&PWR
Responsible Org Type: PRIVATE ENTERPRISE
Responsible City: GRAND HAVEN
Responsible State: MI
Responsible Zip: 49417
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:
NRC Report #: 389976
Chris Code: OLB
Case Number: Not reported
UN Number: Not reported
Amount of Material: 5
Unit of Measure: GALLON(S)
Name of Material: OIL, MISC: LUBRICATING
If Reached Water: YES
Amount in Water: 5
Unit of Measure Reach Water: GALLON(S)

A12 GRAND HAVEN BL&P
Target 518 SOUTH HARBOR DRIVE
Property GRAND HAVEN, MI 49417

FINDS 1018325800
ECHO N/A

Site 12 of 22 in cluster A

Actual: FINDS:
599 ft. Registry ID: 110028295164

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.
GREENHOUSE GAS REPORTER

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

ECHO:

Envid: 1018325800
Registry ID: 110028295164
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110028295164>
Name: GRAND HAVEN BL&P
Address: 518 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A13
Target
Property

DIESEL GENERATING STATION
518 S HARBOR DR
GRAND HAVEN, MI 49417

MI AST
A100297052
N/A

Site 13 of 22 in cluster A

Actual:
599 ft.

AST:

Name: DIESEL GENERATING STATION
Address: 518 S HARBOR DR
City: GRAND HAVEN
Zip: 49417
Facility ID: 91084753
Owner Name: GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address: 1700 EATON DR
Owner City,St,Zip: GRAND HAVEN, MI 49417-2820
District: 3
Date of Collection: 11/04/2006
Accuracy: 15 METERS
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description Category: Not reported
Method of Collection: Interpolation-Map
Horizontal Datum: NAD83
Latitude: 43.0610820
Longitude: -86.236653

Tank Id: ATK-122402-15
Tank Status: Emptied and Cleaned
Capacity (in gallons): 30000
Installation Date: 11/13/2006
Substance Stored: Diesel
Removed/Closed Date: 09/15/2020

Tank Id: ATK-120955-15
Tank Status: Emptied and Cleaned
Capacity (in gallons): 420000
Installation Date: Not reported
Substance Stored: Other
Removed/Closed Date: 11/13/2006

A14
Target
Property

GRAND HAVEN BL&P
518 S. HARBOR DR.
GRAND HAVEN, MI 49417

MI NPDES
MI WDS
S107925479
N/A

Site 14 of 22 in cluster A

Actual:
599 ft.

MI NPDES:

Name: GRAND HAVEN BL&P
Address: 518 S. HARBOR DR.
City,State,Zip: GRAND HAVEN, MI 49417
Permit Number: MI0058209
Permittee PO Box: N
Permittee Email: Not reported
Issue Date: 09/29/2016
Effective Date: 11/01/2016
Expiration Date: 10/01/2020
Permittee Name: Grand Haven Board of Light & Power
Permittee Address: 1700 Eaton Drive
Permittee Addr2: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BL&P (Continued)

S107925479

Permittee City,St,Zip: Grand Haven, MI 49417
Permit Type: NPDES Individual Permit
Facility Name 2: Not reported
Facility Name 3: Diesel Plant
Facility Name 4: Not reported
Designed Name: Grand Haven BL&P
Latitude: 43.059793875
Lat Direction: N
Lat Type Code: LAT
Longitude: -86.238589724
Lon Direction: W
Lon Type Code: LON
Hydrologic Unit Code: 4050006
Permit Status: Extended
COC Permit Category: Not reported
DEQ District Email: Grand Rapids
DEQ Permit Compliance Manager: Chris Veldkamp
DEQ Permit Compliance Manager Email: veldkampc@michigan.gov

Name: GRAND HAVEN BL&P
Address: 518 S. HARBOR DR.
City,State,Zip: GRAND HAVEN, MI 49417
Permit Number: NEC186526
Permittee PO Box: Not reported
Permittee Email: Not reported
Issue Date: 08/18/2016
Effective Date: 08/18/2016
Expiration Date: 08/17/2021
Permittee Name: Grand Haven Board of Light & Power
Permittee Address: Not reported
Permittee Addr2: Not reported
Permittee City,St,Zip: Grand Haven, MI 49417
Permit Type: NPDES Industrial Storm Water No Exposure Certificate (NEC)
Facility Name 2: Not reported
Facility Name 3: Not reported
Facility Name 4: Not reported
Designed Name: Not reported
Latitude: 43.059793875
Lat Direction: Not reported
Lat Type Code: Not reported
Longitude: -86.238589724
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: Ryan Grant
DEQ Permit Compliance Manager Email: grantr3@michigan.gov

WDS:

Name: GRAND HAVEN LIGHT & POWER
Address: 518 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIG000021650
WMD Id: 452464
Site Specific Name: GRAND HAVEN LIGHT & POWER

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BL&P (Continued)

S107925479

Mailing Address: 518 S HARBOR DR
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

A15 DIESEL PLANT
Target 518 S HARBOR DR
Property GRAND HAVEN, MI 49417

MI UST U003327499
N/A

Site 15 of 22 in cluster A

Actual:
599 ft.

UST:

Name: DIESEL PLANT
Address: 518 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00000426
Owner Name: GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address: 1700 EATON DR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417-2820
Owner Contact: Not reported
Owner Phone: 6168426355
Contact: DALE WILTERDINK
Contact Phone: (616) 842-6355
Date of Collection: 11/04/2006
Accuracy: 15
Horizontal Datum: NAD83
Accuracy Value Unit: METERS
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 3 - Grand Rapids District Office
Tank ID: 5
Capacity: 1400
Tank Status: Removed from Ground
Substance: Other(LUBE OIL)
Install Date: 07/17/1931
Remove Date: 12/06/1989
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: 43.06111
Longitude: -86.23642

Name: DIESEL PLANT
Address: 518 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00000426
Owner Name: GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address: 1700 EATON DR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

U003327499

Owner City:	GRAND HAVEN
Owner State:	MI
Owner Zip:	49417-2820
Owner Contact:	Not reported
Owner Phone:	6168426355
Contact:	DALE WILTERDINK
Contact Phone:	(616) 842-6355
Date of Collection:	11/04/2006
Accuracy:	15
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Not reported
Method of Collection:	Interpolation-Map
District:	Region 3 - Grand Rapids District Office
Tank ID:	4
Capacity:	6000
Tank Status:	Removed from Ground
Substance:	Other(FUEL OIL)
Install Date:	07/17/1931
Remove Date:	12/06/1989
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:	43.06111
Longitude:	-86.23642
Name:	DIESEL PLANT
Address:	518 S HARBOR DR
City,State,Zip:	GRAND HAVEN 49417
Facility Type:	CLOSED
Facility ID:	00000426
Owner Name:	GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address:	1700 EATON DR
Owner City:	GRAND HAVEN
Owner State:	MI
Owner Zip:	49417-2820
Owner Contact:	Not reported
Owner Phone:	6168426355
Contact:	DALE WILTERDINK
Contact Phone:	(616) 842-6355
Date of Collection:	11/04/2006
Accuracy:	15
Horizontal Datum:	NAD83
Accuracy Value Unit:	METERS
Source:	STATE OF MICHIGAN
Point Line Area:	POINT
Desc Category:	Not reported
Method of Collection:	Interpolation-Map
District:	Region 3 - Grand Rapids District Office
Tank ID:	3

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

U003327499

Capacity: 150000
Tank Status: Removed from Ground
Substance: Other(FUEL OIL.)
Install Date: 07/17/1931
Remove Date: 12/06/1989
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: 43.06111
Longitude: -86.23642

Name: DIESEL PLANT
Address: 518 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00000426
Owner Name: GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address: 1700 EATON DR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417-2820
Owner Contact: Not reported
Owner Phone: 6168426355
Contact: DALE WILTERDINK
Contact Phone: (616) 842-6355
Date of Collection: 11/04/2006
Accuracy: 15
Horizontal Datum: NAD83
Accuracy Value Unit: METERS
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 3 - Grand Rapids District Office
Tank ID: 2
Capacity: 100000
Tank Status: Removed from Ground
Substance: Other(FUEL OIL.)
Install Date: 07/17/1931
Remove Date: 12/06/1989
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: 43.06111
Longitude: -86.23642

Name: DIESEL PLANT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

DIESEL PLANT (Continued)

U003327499

Address: 518 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00000426
Owner Name: GRAND HAVEN BOARD OF LIGHT & POWER
Owner Address: 1700 EATON DR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417-2820
Owner Contact: Not reported
Owner Phone: 6168426355
Contact: DALE WILTERDINK
Contact Phone: (616) 842-6355
Date of Collection: 11/04/2006
Accuracy: 15
Horizontal Datum: NAD83
Accuracy Value Unit: METERS
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Not reported
Method of Collection: Interpolation-Map
District: Region 3 - Grand Rapids District Office
Tank ID: 1
Capacity: 100000
Tank Status: Removed from Ground
Substance: Other(FUEL OIL)
Install Date: 07/17/1931
Remove Date: 12/06/1989
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: 43.06111
Longitude: -86.23642

A16 GRAND HAVEN BOARD OF LIGHT & POWER
Target 518 SOUTH HARBOR DRIVE
Property GRAND HAVEN, MI 49417

MI INVENTORY S107164841
N/A

Site 16 of 22 in cluster A

Actual:
599 ft.

INVENTORY:
Name: GRAND HAVEN BOARD OF LIGHT & POWER
Address: 518 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.05992
Longitude: -86.23826

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

A17

Target
Property

518 SOUTH HARBOR ST
GRAND HAVEN, MI

ERNS

95303239
N/A

Site 17 of 22 in cluster A

Actual:
599 ft.

Incident Commons:

NRC Report #: 303239
Description of Incident: 4IN UNDERGROUND LINE / STORAGE TANK LINE DEVELOPED LEAK
Type of Incident: FIXED
Incident Cause: EQUIPMENT FAILURE
Incident Date Time: 1995-08-08 10:00:00
Incident DTG: DISCOVERED
Incident Location: Not reported
Loaction Address: 518 SOUTH HARBOR ST
Location Street 1: Not reported
Location Street 2: Not reported
Location Nearest City: GRAND HAVEN
Location State: MI
Location County: OTTAWA
Location Zip: Not reported
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: Not reported

Incidents:

NRC Report #: 303239
Aircraft Type: UNKNOWN
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
Road Mile Marker: Not reported
Building ID: Not reported
Type of Fixed Object: UNKNOWN
Power Generating Facility: U
Generating Capacity: Not reported
Type of Fuel: Not reported
NPDES: Not reported
NPDES Compliance: U
Pipeline Type: UNKNOWN
DOT Regulated: U
Pipeline Above Ground: ABOVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

95303239

Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
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
OCSF 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:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
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
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

95303239

Unknown Testing: Not reported
Passenger Handling: Not reported
Passenger Route: XXX
Passenger Delay: XXX

Incident Details:

NRC Report #: 303239
Fire Involved: N
Fire Extinguished: Not reported
Any Evacuations: N
Number Evacuated: Not reported
Who Evacuated: Not reported
Radius of Evacuation: Not reported
Any Injuries: U
Number Injured: Not reported
Number Hospitalized: Not reported
Any Fatalities: U
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: Not reported
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: Not reported
Track Closed: Not reported
Track Desc: Not reported
Track Closure Time: Not reported
Media Interest: Not reported
Medium Desc: WATER
Additional Medium Info: STORM DRAIN > GRAND RIVER MM UNKNOWN
Body of Water: Not reported
Tributary of: Not reported
Release Secured: Not reported
Estimated Duration of Release: Not reported
Release rate: Not reported
Desc Remedial Action: NOT SECURED / CONTRACTORS AND VAC TRUCKS ON SITE / NO FLOW THROUGH
LINEONLY STANDING OIL / MATERIALS CONTAINED IN STORM DRAIN
State Agency on Scene: Not reported
State Agency Report Number: Not reported
Other Agency Notified: Not reported
Weather Conditions: Not reported
Air Temperature: Not reported
Wind Speed: Not reported
Wind Direction: Not reported
Water Supply Contaminated: Not reported
Sheen Size: Not reported
Sheen Color: Not reported
Direction of Sheen Travel: Not reported
Sheen Odor Description: Not reported
Wave Condition: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

(Continued)

95303239

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: Not reported
State Agency Notified: Not reported
Federal Agency Notified: Not reported
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: Not reported
Duration Unit: Not reported
Release Rate Unit: Not reported
Release Rate Rate: Not reported
Passengers Transferred: UNK

Calls:

NRC Report #: 303239
Site ID: 95303239
Date Time Received: 1995-08-09 08:36:34
Date Time Complete: 1995-08-09 08:52:32
Call Type: INC
Responsible Company: GH BOARD OF LIGHT AND POW
Responsible Org Type: PUBLIC UTILITY
Responsible City: GRAND HAVEN
Responsible State: MI
Responsible Zip: 49417
On Behalf: Not reported
Source: UNAVAILABLE

Material Involved:

NRC Report #: 303239
Chris Code: OTH
Case Number: Not reported
UN Number: Not reported
Amount of Material: 200
Unit of Measure: GALLON(S)
Name of Material: OTHER OIL - NO.5
If Reached Water: YES
Amount in Water: 200
Unit of Measure Reach Water: GALLON(S)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

	Site	Database(s)	
A18	GRAND HAVEN DIESEL PLANT	FINDS	1010019672
< 1/8	520 S. HARBOR AVENUE		N/A
1 ft.	GRAND HAVEN, MI 49417		
	Site 18 of 22 in cluster A		
Relative: Lower	FINDS: Registry ID: 110028026552		
Actual: 598 ft.	Click Here: Environmental Interest/Information System: US Emissions & Generation Resource Database (EGRID) contains data on emissions and resource mix for virtually every power plant and company that generates electricity in the United States. ELECTRIC GENERATOR Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.		
A19	US DEPT/HOMELAND SECURITY	RCRA-VSQQ	1004532836
NNW	601 S HARBOR DR	FINDS	MI4690390378
< 1/8	GRAND HAVEN, MI 49417	ECHO	
0.013 mi.			
66 ft.	Site 19 of 22 in cluster A		
Relative: Lower	RCRA-VSQQ: Date Form Received by Agency: 1991-10-15 00:00:00.0		
Actual: 592 ft.	Handler Name: US DEPT/HOMELAND SECURITY		
	Handler Address: 601 S HARBOR DR		
	Handler City,State,Zip: GRAND HAVEN, MI 49417		
	EPA ID: MI4690390378		
	Contact Name: ALLEN DIETRICH		
	Contact Address: 601 S HARBOR DR		
	Contact City,State,Zip: GRAND HAVEN, MI 49417		
	Contact Telephone: 616-846-3238		
	Contact Fax: Not reported		
	Contact Email: Not reported		
	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: 601 S HARBOR DR		
	Mailing City,State,Zip: GRAND HAVEN, MI 49417		
	Owner Name: US DEPT/HOMELAND SECURITY-COAST GUARD		
	Owner Type: Federal		
	Operator Name: US DEPT/HOMELAND SECURITY-COAST GUARD		
	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		

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532836

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-owned, The site is federally-operated
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-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs 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:	2011-03-03 13:15:53.0
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:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532836

Owner/Operator Indicator:	Owner
Owner/Operator Name:	US DEPT/HOMELAND SECURITY-COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
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 DEPT/HOMELAND SECURITY-COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
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:	1991-10-15 00:00:00.0
Handler Name:	US DEPT/HOMELAND SECURITY
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:	92811
NAICS Description:	NATIONAL SECURITY

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110003572287

Click Here:

Environmental Interest/Information System:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532836

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: 1004532836
Registry ID: 110003572287
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003572287>
Name: US DEPT/HOMELAND SECURITY
Address: 601 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417

B20
West
< 1/8
0.025 mi.
130 ft.

GRAND HAVEN BOARD OF LIGHT & PWR
530 S HARBOR DR
GRAND HAVEN, MI 49417
Site 1 of 3 in cluster B

MI LUST **S103724449**
N/A

Relative:
Lower

LUST:

Actual:
594 ft.

Name: GRAND HAVEN BOARD OF LIGHT & PWR
Address: 530 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417-
Facility ID: 50000254
Source: STATE OF MICHIGAN
Owner Name: NrtOwner
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: Ghblp-diesel Plant
Latitude: 43.06100
Longitude: -86.23706
Date of Collection: 10/05/2004
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-0658-89
Release Date: 10/09/1989
Substance Released: Not reported
Release Status: Closed

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BOARD OF LIGHT & PWR (Continued)

S103724449

Release Closed Date: 05/30/1990

B21
West
< 1/8
0.025 mi.
130 ft.

GRAND HAVEN BOARD OF LIGHT & PWR
530 S HARBOR DR
GRAND HAVEN, MI 49417
Site 2 of 3 in cluster B

MI UST U004294357
N/A

Relative:
Lower
Actual:
594 ft.

UST:

Name: GRAND HAVEN BOARD OF LIGHT & PWR
Address: 530 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 50000254
Owner Name: NRT OWNER
Owner Address: UNKNOWN
Owner City: UNKNOWN
Owner State: MI
Owner Zip: 99999
Owner Contact: Not reported
Owner Phone: Not reported
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: Not reported
Tank Status: Non-Registered Tank
Substance: Not reported
Install Date: Not reported
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

	Site	Database(s)	EDR ID Number EPA ID Number
A22	CITY OF GRAND HAVEN	RCRA NonGen / NLR	1010785724
SSW	30 SHERMAN AVE		MIK926196577
< 1/8	GRAND HAVEN, MI 49417		
0.029 mi.			
152 ft.	Site 20 of 22 in cluster A		
Relative: Higher	RCRA NonGen / NLR:		
	Date Form Received by Agency:	2007-10-30 00:00:00.0	
Actual: 619 ft.	Handler Name: CITY OF GRAND HAVEN		
	Handler Address:	30 SHERMAN AVE	
	Handler City,State,Zip:	GRAND HAVEN, MI 49417	
	EPA ID:	MIK926196577	
	Contact Name:	JOE VANDERSTEL	
	Contact Address:	30 SHERMAN AVE	
	Contact City,State,Zip:	GRAND HAVEN, MI 49417	
	Contact Telephone:	616-847-3487	
	Contact Fax:	Not reported	
	Contact Email:	Not reported	
	Contact Title:	Not reported	
	EPA Region:	05	
	Land Type:	Municipal	
	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:	519 WASHINGTON ST	
	Mailing City,State,Zip:	GRAND HAVEN, MI 49417	
	Owner Name:	CITY OF GRAND HAVEN	
	Owner Type:	Municipal	
	Operator Name:	CITY OF GRAND HAVEN	
	Operator Type:	Municipal	
	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	

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF GRAND HAVEN (Continued)

1010785724

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:	2011-03-03 13:15:53.0
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:	CITY OF GRAND HAVEN
Legal Status:	Municipal
Date Became Current:	1986-06-01 00:00:00.
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:	CITY OF GRAND HAVEN
Legal Status:	Municipal
Date Became Current:	1986-06-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

CITY OF GRAND HAVEN (Continued)

1010785724

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: 2007-10-30 00:00:00.0
Handler Name: CITY OF GRAND HAVEN
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: 22131
NAICS Description: WATER SUPPLY AND IRRIGATION SYSTEMS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

A23
SSW
< 1/8
0.029 mi.
152 ft.

NORTHWEST OTTAWA WATER TREATMENT PLANT
30 SHERMAN AVE
GRAND HAVEN, MI 49417
Site 21 of 22 in cluster A

MI AST A100350947
N/A

Relative:
Higher
Actual:
619 ft.

AST:
Name: NORTHWEST OTTAWA WATER TREATMENT PLANT
Address: 30 SHERMAN AVE
City: GRAND HAVEN
Zip: 49417-1728
Facility ID: 91085006
Owner Name: NOWS - CITY OF GRAND HAVEN
Owner Address: 519 WASHINGTON AVE
Owner City,St,Zip: GRAND HAVEN, MI 49417-1454
District: 3
Date of Collection: 10/26/2011
Accuracy: 10 FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Description Category: Plant Entrance (Freight)
Method of Collection: GPS Code Meas. Standard Positioning Service SA Off
Horizontal Datum: NAD83
Latitude: 43.0595400
Longitude: -86.235470

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTHWEST OTTAWA WATER TREATMENT PLANT (Continued)

A100350947

Tank Id: ATK-137328-15
Tank Status: Currently In Use
Capacity (in gallons): 2000
Installation Date: Not reported
Substance Stored: Diesel
Removed/Closed Date: Not reported

A24
SSW
< 1/8
0.029 mi.
152 ft.

NORTHWEST OTTAWA WATER PLANT
30 SHERMAN AVE
GRAND HAVEN, MI 49417

MI UST U003329349
N/A

Site 22 of 22 in cluster A

Relative:
Higher
Actual:
619 ft.

UST:

Name: NORTHWEST OTTAWA WATER PLANT
Address: 30 SHERMAN AVE
City,State,Zip: GRAND HAVEN 49417-1728
Facility Type: CLOSED
Facility ID: 00035423
Owner Name: NORTHWEST OTTAWA WATER PLANT
Owner Address: 519 WASHINGTON
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168473488
Contact: Joe VanderSel
Contact Phone: (616) 847-3487
Date of Collection: 11/19/2001
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: 2000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 03/26/1986
Remove Date: 09/09/2009
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: 43.20051
Longitude: -86.30572

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

B25	US DEPT/HOMELAND SECURITY	RCRA NonGen / NLR	1000178529
West	701 S WATER ST	FINDS	MI2690308497
< 1/8	GRAND HAVEN, MI 49417	ECHO	
0.063 mi.			
335 ft.	Site 3 of 3 in cluster B		
Relative:	RCRA NonGen / NLR:		
Lower	Date Form Received by Agency:	1986-07-22 00:00:00.0	
Actual:	Handler Name:	US DEPT/HOMELAND SECURITY	
592 ft.	Handler Address:	701 S WATER ST	
	Handler City,State,Zip:	GRAND HAVEN, MI 49417	
	EPA ID:	MI2690308497	
	Contact Name:	LEO BAILEY	
	Contact Address:	701 S WATER ST	
	Contact City,State,Zip:	GRAND HAVEN, MI 49417	
	Contact Telephone:	216-522-3972	
	Contact Fax:	Not reported	
	Contact Email:	Not reported	
	Contact Title:	Not reported	
	EPA Region:	05	
	Land Type:	Federal	
	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:	9TH CGD 1240 E 9TH FLP RM2117C	
	Mailing City,State,Zip:	CLEVELAND, OH 44199	
	Owner Name:	US COAST GUARD	
	Owner Type:	Federal	
	Operator Name:	US COAST GUARD	
	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-owned, The site is federally-operated	
	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	

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1000178529

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:	2011-03-03 13:15:53.0
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:	US COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
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 COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1000178529

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:	1986-07-22 00:00:00.0
Handler Name:	US DEPT/HOMELAND SECURITY
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:	92811
NAICS Description:	NATIONAL SECURITY

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110003572081

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:	1000178529
Registry ID:	110003572081
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110003572081
Name:	US DEPT/HOMELAND SECURITY
Address:	701 S WATER ST
City,State,Zip:	GRAND HAVEN, MI 49417

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

C26 NW OTTAWA WATER INTAKE PLANT
South 1001 S HARBOR DR
< 1/8 GRAND HAVEN, MI 49417
0.066 mi.
346 ft. Site 1 of 2 in cluster C

MI UST U003329256
N/A

Relative:
Higher

UST:

Actual:
624 ft.

Name: NW OTTAWA WATER INTAKE PLANT
Address: 1001 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417-1746
Facility Type: Non-Registered Tank
Facility ID: 00034259
Owner Name: NORTHWEST OTTAWA WATER PLANT
Owner Address: 519 WASHINGTON
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168473488
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: SA-01
Capacity: Not reported
Tank Status: NON-Registered Tank
Substance: Not reported
Install Date: Not reported
Remove Date: Not reported
Tank Number: UTK-113406-15
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: NW OTTAWA WATER INTAKE PLANT
Address: 1001 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417-1746
Facility Type: CLOSED
Facility ID: 00034259
Owner Name: NORTHWEST OTTAWA WATER PLANT
Owner Address: 519 WASHINGTON
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168473488

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NW OTTAWA WATER INTAKE PLANT (Continued)

U003329256

Contact: MR TERRY VELIK
Contact Phone: 616-847-3488
Date of Collection: 11/19/2001
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: 2000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 05/15/1990
Remove Date: 01/18/2002
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: 43.20051
Longitude: -86.30572

27
NNE
< 1/8
0.069 mi.
365 ft.

US DEPT/DEFENSE
307 S HARBOR DR
GRAND HAVEN, MI 49417

RCRA-VSQQ 1004722540
FINDS MI4210890444
ECHO
NY MANIFEST

Relative:
Lower
Actual:
592 ft.

RCRA-VSQQ:
Date Form Received by Agency: 1992-01-16 00:00:00.0
Handler Name: US DEPT/DEFENSE
Handler Address: 307 S HARBOR DR
Handler City,State,Zip: GRAND HAVEN, MI 49417
EPA ID: MI4210890444
Contact Name: NANCY WEIHL
Contact Address: 307 S HARBOR DR
Contact City,State,Zip: GRAND HAVEN, MI 49417
Contact Telephone: 616-842-5510
Contact Fax: Not reported
Contact Email: Not reported
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: PO BOX 629
Mailing City,State,Zip: GRAND HAVEN, MI 49417

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE (Continued)

1004722540

Owner Name:	US DEPT/DEFENSE- ARMY CORPS OF ENGINEERS
Owner Type:	Federal
Operator Name:	US DEPT/DEFENSE- ARMY CORPS OF ENGINEERS
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-owned, The site is federally-operated
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:	2011-03-03 13:15:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE (Continued)

1004722540

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: US DEPT/DEFENSE- ARMY CORPS OF ENGINEERS
Legal Status: Federal
Date Became Current: 1970-01-01 00:00:00.
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: US DEPT/DEFENSE- ARMY CORPS OF ENGINEERS
Legal Status: Federal
Date Became Current: 1970-01-01 00:00:00.
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: 1992-01-16 00:00:00.0
Handler Name: US DEPT/DEFENSE
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 Violations:

Violations: No Violations Found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE (Continued)

1004722540

Evaluation Action Summary:

Evaluations:

No Evaluations Found

FINDS:

Registry ID: 110003572250

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: 1004722540
Registry ID: 110003572250
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003572250>
Name: US DEPT/DEFENSE
Address: 307 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417

NY MANIFEST:

Name: UNITED STATES MILITARY
Address: 307 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Country: USA
EPA ID: MI4210890444
Facility Status: Not reported
Location Address 1: DETROIT DIST/GRAND HAVEN BX629
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: GRAND HAVEN
Location State: MI
Location Zip: 49417
Location Zip 4: Not reported

NY MANIFEST:

EPAID: MI4210890444
Mailing Name: UNITED STATES MILITARY
Mailing Contact: MICHAEL MORENO
Mailing Address 1: DRMO SELFRIDGE ANG BLDG 590
Mailing Address 2: Not reported
Mailing City: SELFRIDGE
Mailing State: MI
Mailing Zip: 48045
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6168425510

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/DEFENSE (Continued)

1004722540

NY MANIFEST:

Document ID: NYB4471218
Manifest Status: K
seq: Not reported
Year: 1992
Trans1 State ID: Not reported
Trans2 State ID: Not reported
Generator Ship Date: 02/05/1992
Trans1 Recv Date: 02/05/1992
Trans2 Recv Date: 02/05/1992
TSD Site Recv Date: 03/05/1992
Part A Recv Date: 02/25/1992
Part B Recv Date: 03/13/1992
Generator EPA ID: MI4210890444
Trans1 EPA ID: INT190010397
Trans2 EPA ID: INT190010397
TSD ID 1: NYD000632372
TSD ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: D001 - NON-LISTED IGNITABLE WASTES
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 00064
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: T Chemical, physical, or biological treatment.
Specific Gravity: 100

D28
West
< 1/8
0.078 mi.
412 ft.

US COAST GUARD STATION PARKING LOT
650 SOUTH HARBOR DRIVE
GRAND HAVEN, MI 49417
Site 1 of 3 in cluster D

MI INVENTORY S106787588
MI PART 201 N/A

Relative:
Lower

INVENTORY:

Actual:
593 ft.

Name: US COAST GUARD STATION PARKING LOT
Address: 650 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US COAST GUARD STATION PARKING LOT (Continued)

S106787588

Data Source: Part 201
Latitude: 43.05982
Longitude: -86.24045

PART 201:

Facility ID: 70000376
Facility Status: Interim Response in progress
Source: Nonclassifiable Establishments
SAM Score: 38
SAM Score Date: 10/20/2004
Township: 8N
Range: 16W
Section: 29
Quarter: NW
Quarter/Quarter: NW
Pollutants: Benzene

D29
West
< 1/8
0.078 mi.
412 ft.

US DEPT/HOMELAND SECURITY
650 S HARBOR DR
GRAND HAVEN, MI 49417
Site 2 of 3 in cluster D

RCRA-VSQG 1004532834
FINDS MI2690390370
ECHO
NY MANIFEST

Relative:
Lower
Actual:
593 ft.

RCRA-VSQG:

Date Form Received by Agency: 1991-09-30 00:00:00.0
Handler Name: US DEPT/HOMELAND SECURITY
Handler Address: 650 S HARBOR DR
Handler City,State,Zip: GRAND HAVEN, MI 49417
EPA ID: MI2690390370
Contact Name: CHRIS JOHNSON
Contact Address: 650 S HARBOR DR
Contact City,State,Zip: GRAND HAVEN, MI 49417
Contact Telephone: 616-847-4512
Contact Fax: Not reported
Contact Email: Not reported
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: 650 S HARBOR DR
Mailing City,State,Zip: GRAND HAVEN, MI 49417
Owner Name: US DEPT/HOMELAND SECURITY-COAST GUARD
Owner Type: Federal
Operator Name: US DEPT/HOMELAND SECURITY-COAST GUARD
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532834

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-owned, The site is federally-operated
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:	2011-03-03 13:15:53.0
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532834

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	US DEPT/HOMELAND SECURITY-COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
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:	US DEPT/HOMELAND SECURITY-COAST GUARD
Legal Status:	Federal
Date Became Current:	1970-01-01 00:00:00.
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:	1991-09-30 00:00:00.0
Handler Name:	US DEPT/HOMELAND SECURITY
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 Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID:	110003572090

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532834

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: 1004532834
Registry ID: 110003572090
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003572090>
Name: US DEPT/HOMELAND SECURITY
Address: 650 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417

NY MANIFEST:

Name: UNITED STATES MILITARY-COAST GUARD
Address: 650 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Country: USA
EPA ID: MI2690390370
Facility Status: Not reported
Location Address 1: 625 HARBOR DRIVE
Code: BP
Location Address 2: Not reported
Total Tanks: Not reported
Location City: GRAND HAVEN
Location State: MI
Location Zip: 49417
Location Zip 4: Not reported

NY MANIFEST:

EPAID: MI2690390370
Mailing Name: UNITED STATES MILITARY-COAST GUARD
Mailing Contact: CHRIS JOHNSON
Mailing Address 1: 625 HARBOR DRIVE
Mailing Address 2: Not reported
Mailing City: GRAND HAVEN
Mailing State: MI
Mailing Zip: 49417
Mailing Zip 4: Not reported
Mailing Country: USA
Mailing Phone: 6168474512

NY MANIFEST:

Document ID: NYB4558014
Manifest Status: C
seq: Not reported
Year: 1991
Trans1 State ID: 80347V-NY
Trans2 State ID: 80344VNY

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US DEPT/HOMELAND SECURITY (Continued)

1004532834

Generator Ship Date: 12/16/1991
Trans1 Recv Date: 12/16/1991
Trans2 Recv Date: 12/18/1991
TSD Site Recv Date: 12/18/1991
Part A Recv Date: / /
Part B Recv Date: 01/07/1992
Generator EPA ID: MI2690390370
Trans1 EPA ID: NYD982792814
Trans2 EPA ID: NYD982792814
TSD ID 1: NYD043815703
TSD ID 2: Not reported
Manifest Tracking Number: Not reported
Import Indicator: Not reported
Export Indicator: Not reported
Discr Quantity Indicator: Not reported
Discr Type Indicator: Not reported
Discr Residue Indicator: Not reported
Discr Partial Reject Indicator: Not reported
Discr Full Reject Indicator: Not reported
Manifest Ref Number: Not reported
Alt Facility RCRA ID: Not reported
Alt Facility Sign Date: Not reported
MGMT Method Type Code: Not reported
Waste Code: D008 - LEAD 5.0 MG/L TCLP
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Waste Code: Not reported
Quantity: 00800
Units: P - Pounds
Number of Containers: 001
Container Type: DM - Metal drums, barrels
Handling Method: L Landfill.
Specific Gravity: 100

D30
West
< 1/8
0.078 mi.
412 ft.

US COAST GUARD - LUDINGTON ST BEACH
650 S HARBOR DR
GRAND HAVEN, MI 49417

RCRA NonGen / NLR

1023677835
MIK682678949

Site 3 of 3 in cluster D

Relative:
Lower
Actual:
593 ft.

RCRA NonGen / NLR:

Date Form Received by Agency: 2017-04-28 00:00:00.0
Handler Name: US COAST GUARD - LUDINGTON ST BEACH
Handler Address: 650 S HARBOR DR
Handler City,State,Zip: GRAND HAVEN, MI 49417
EPA ID: MIK682678949
Contact Name: LEO LAMPINEN
Contact Address: Not reported
Contact City,State,Zip: Not reported
Contact Telephone: 414-242-9512
Contact Fax: Not reported
Contact Email: Not reported
Contact Title: Not reported
EPA Region: 05
Land Type: Federal

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US COAST GUARD - LUDINGTON ST BEACH (Continued)

1023677835

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:	650 S HARBOR DR
Mailing City,State,Zip:	GRAND HAVEN, MI 49417
Owner Name:	US COAST GUARD
Owner Type:	Federal
Operator Name:	US COAST GUARD
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-owned, The site is federally-operated
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US COAST GUARD - LUDINGTON ST BEACH (Continued)

1023677835

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: 2017-06-09 12:02:48.0
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: US COAST GUARD
Legal Status: Federal
Date Became Current: 1970-01-01 00:00:00.
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 COAST GUARD
Legal Status: Federal
Date Became Current: 1970-01-01 00:00:00.
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: 2017-04-28 00:00:00.0
Handler Name: US COAST GUARD - LUDINGTON ST BEACH
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

US COAST GUARD - LUDINGTON ST BEACH (Continued)

1023677835

List of NAICS Codes and Descriptions:

NAICS Code: 562910
NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

C31	GRAND HAVEN BLP	US BROWNFIELDS	1018163846
SSW	MULLIGAN DRIVE		N/A
< 1/8	GRAND HAVEN, MI 49417		
0.087 mi.			
459 ft.	Site 2 of 2 in cluster C		
Relative: Higher	US BROWNFIELDS:		
Actual: 614 ft.	Name:	GRAND HAVEN BLP	
	Address:	MULLIGAN DRIVE	
	City,State,Zip:	GRAND HAVEN, MI 49417	
	Recipient Name:	County of Ottawa	
	Grant Type:	Assessment	
	Property Number:	70-03-29-160-003	
	Parcel size:	.64	
	Latitude:	43.0584575	
	Longitude:	-86.2387302	
	HCM Label:	Address Matching-House Number	
	Map Scale:	-	
	Point of Reference:	Entrance Point of a Facility or Station	
	Highlights:	Former Use: The property was undeveloped until around 1950, when two 420,000 gallon above ground storage tanks were placed on-site. The tanks were used for storage of diesel and #2 fuel until September of 2015.	
	Datum:	North American Datum of 1983	
	Acres Property ID:	203503	
	IC Data Access:	-	
	Start Date:	-	
	Redev Completion Date:	-	
	Completed Date:	-	
	Acres Cleaned Up:	-	
	Cleanup Funding:	-	
	Cleanup Funding Source:	-	
	Assessment Funding:	-	
	Assessment Funding Source:	-	
	Redevelopment Funding:	-	
	Redev. Funding Source:	-	
	Redev. Funding Entity Name:	-	
	Redevelopment Start Date:	-	
	Assessment Funding Entity:	-	
	Cleanup Funding Entity:	-	
	Grant Type:	Petroleum	
	Accomplishment Type:	-	
	Accomplishment Count:	-	
	Cooperative Agreement Number:	00E01218	
	Start Date:	-	

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BLP (Continued)

1018163846

Ownership Entity:	-
Completion Date:	-
Current Owner:	-
Did Owner Change:	-
Cleanup Required:	U
Video Available:	-
Photo Available:	-
Institutional Controls Required:	U
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	-
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	.64
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BLP (Continued)

1018163846

Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	The property was undeveloped until around 1950, when two 420,000 gallon above ground storage tanks were placed on-site. The tanks were used for storage of diesel and #2 fuel until September of 2015.
Below Poverty Number:	134
Below Poverty Percent:	12.76
Meidan Income:	767
Meidan Income Number:	261
Meidan Income Percent:	24.86
Vacant Housing Number:	138
Vacant Housing Percent:	21.79
Unemployed Number:	61
Unemployed Percent:	5.81
Name:	GRAND HAVEN BLP
Address:	MULLIGAN DRIVE
City,State,Zip:	GRAND HAVEN, MI 49417
Recipient Name:	County of Ottawa
Grant Type:	Assessment
Property Number:	70-03-29-160-003
Parcel size:	.64
Latitude:	43.0584575
Longitude:	-86.2387302
HCM Label:	Address Matching-House Number

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BLP (Continued)

1018163846

Map Scale: -
Point of Reference: Entrance Point of a Facility or Station
Highlights: Former Use: The property was undeveloped until around 1950, when two 420,000 gallon above ground storage tanks were placed on-site. The tanks were used for storage of diesel and #2 fuel until September of 2015.
Datum: North American Datum of 1983
Acres Property ID: 203503
IC Data Access: -
Start Date: -
Redev Completion Date: -
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -
Cleanup Funding Source: -
Assessment Funding: 2450
Assessment Funding Source: EPA
Redevelopment Funding: -
Redev. Funding Source: -
Redev. Funding Entity Name: -
Redevelopment Start Date: -
Assessment Funding Entity: US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity: -
Grant Type: Petroleum
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: Y
Cooperative Agreement Number: 00E01218
Start Date: 09/28/2015
Ownership Entity: -
Completion Date: 10/28/2015
Current Owner: -
Did Owner Change: -
Cleanup Required: U
Video Available: -
Photo Available: -
Institutional Controls Required: U
IC Category Proprietary Controls: -
IC Cat. Info. Devices: -
IC Cat. Gov. Controls: -
IC Cat. Enforcement Permit Tools: -
IC in place date: -
IC in place: -
State/tribal program date: -
State/tribal program ID: -
State/tribal NFA date: -
Air cleaned: -
Asbestos found: -
Asbestos cleaned: -
Controlled substance found: -
Controlled substance cleaned: -
Drinking water affected: -
Drinking water cleaned: -
Groundwater affected: -
Groundwater cleaned: -
Lead contaminant found: -
Lead cleaned up: -
No media affected: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN BLP (Continued)

1018163846

Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	-
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	.64
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	-
Future use industrial acreage:	-
Superfund Fed. landowner flag:	-
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

GRAND HAVEN BLP (Continued)

1018163846

Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	The property was undeveloped until around 1950, when two 420,000 gallon above ground storage tanks were placed on-site. The tanks were used for storage of diesel and #2 fuel until September of 2015.
Below Poverty Number:	134
Below Poverty Percent:	12.76
Meidan Income:	767
Meidan Income Number:	261
Meidan Income Percent:	24.86
Vacant Housing Number:	138
Vacant Housing Percent:	21.79
Unemployed Number:	61
Unemployed Percent:	5.81

E32
NE
1/8-1/4
0.178 mi.
939 ft.

AQUILA INC
310 S HARBOR DR
GRAND HAVEN, MI 49417

RCRA NonGen / NLR

1007095910
MIK117881375

Site 1 of 7 in cluster E

Relative:
Higher
Actual:
605 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:

2002-12-31 00:00:00.0

Handler Name:

AQUILA INC

Handler Address:

310 S HARBOR DR

Handler City,State,Zip:

GRAND HAVEN, MI 49417

EPA ID:

MIK117881375

Contact Name:

RICK HOWARD

Contact Address:

310 S HARBOR DR

Contact City,State,Zip:

GRAND HAVEN, MI 49417

Contact Telephone:

231-932-9880

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:

36 HIGHVIEW RD

Mailing City,State,Zip:

TRAVERSE CITY, MI 49686

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AQUILA INC (Continued)

1007095910

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-TSDs Where RCRA CA has Been Imposed Universe:	No
TSDs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDs 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 TSD 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:	2011-03-03 13:15:53.0
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:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AQUILA INC (Continued)

1007095910

Owner/Operator Indicator:	Owner
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	2003-01-01 00:00:00.
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:	2003-01-01 00:00:00.
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:	2003-01-01 00:00:00.
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:	2003-01-01 00:00:00.
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:	1980-01-01 00:00:00.0
Handler Name:	AQUILA 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

AQUILA INC (Continued)

1007095910

Spent Lead Acid Battery Exporter:	No
Current Record:	No
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported
Receive Date:	2002-12-31 00:00:00.0
Handler Name:	AQUILA 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:	211111
NAICS Description:	CRUDE PETROLEUM AND NATURAL GAS EXTRACTION

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

E33
NE
1/8-1/4
0.178 mi.
939 ft.

MICHIGAN GAS UTILITIES CORPORATION
310 S HARBOR DR
GRAND HAVEN, MI 49417
Site 2 of 7 in cluster E

RCRA NonGen / NLR
FINDS
ECHO

1007101743
MIP200000722

Relative:
Higher
Actual:
605 ft.

RCRA NonGen / NLR:	
Date Form Received by Agency:	2006-03-31 00:00:00.0
Handler Name:	MICHIGAN GAS UTILITIES CORPORATION
Handler Address:	310 S HARBOR DR
Handler City,State,Zip:	GRAND HAVEN, MI 49417
EPA ID:	MIP200000722
Contact Name:	DANIEL STAUB
Contact Address:	310 S HARBOR DR
Contact City,State,Zip:	GRAND HAVEN, MI 49417
Contact Telephone:	231-775-6766
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1007101743

State District:	Not reported
Mailing Address:	310 S HARBOR DR
Mailing City,State,Zip:	GRAND HAVEN, MI 49417
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
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:	2011-03-03 13:15:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1007101743

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: 2006-04-01 00:00:00.
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: 2006-04-01 00:00:00.
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: 2006-04-01 00:00:00.
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: 2006-04-01 00:00:00.
Date Ended Current: Not reported
Owner/Operator Address: Not reported
Owner/Operator City,State,Zip: Not reported
Owner/Operator Telephone: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1007101743

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

Historic Generators:

Receive Date: 1980-01-01 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2006-03-31 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 56291
NAICS Description: REMEDIATION SERVICES

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

FINDS:

Registry ID: 110003698721

[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.

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1007101743

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

ECHO:

Envid: 1007101743
Registry ID: 110003698721
DFR URL: <http://echo.epa.gov/detailed-facility-report?fid=110003698721>
Name: MICHIGAN GAS UTILITIES CORPORATION
Address: 310 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417

E34 310 SOUTH HARBOR DRIVE
NE 310 SOUTH HARBOR DRIVE
1/8-1/4 OTTAWA (County), MI 49417
0.178 mi.
939 ft. Site 3 of 7 in cluster E

MI INVENTORY S114029729
N/A

Relative:
Higher

INVENTORY:

Actual:
605 ft.

Name: 310 SOUTH HARBOR DRIVE
Address: 310 SOUTH HARBOR DRIVE
City,State,Zip: MI 49417
Bea Number: 200601778GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.06213
Longitude: -86.23526

E35 MICHIGAN GAS UTILITIES CORPORATION
NE 310 S HARBOR DR
1/8-1/4 GRAND HAVEN, MI 49417
0.178 mi.
939 ft. Site 4 of 7 in cluster E

RCRA NonGen / NLR 1001124092
MIR000020057

Relative:
Higher

RCRA NonGen / NLR:

Actual:
605 ft.

Date Form Received by Agency: 2006-03-31 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
Handler Address: 310 S HARBOR DR
Handler City,State,Zip: GRAND HAVEN, MI 49417
EPA ID: MIR000020057
Contact Name: RICK HOWARD
Contact Address: 310 S HARBOR DR
Contact City,State,Zip: GRAND HAVEN, MI 49417
Contact Telephone: 231-932-9880
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

Mailing Address:	36 HIGHVIEW RD
Mailing City,State,Zip:	TRAVERSE CITY, MI 49686
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
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:	2011-03-03 13:15:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

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:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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:	2006-04-01 00:00:00.
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

Date Became Current: 2006-04-01 00:00:00.
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: 1980-01-01 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2002-09-23 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2003-12-31 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2005-05-16 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CORPORATION (Continued)

1001124092

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

Receive Date: 1996-11-13 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2005-04-26 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 2006-03-31 00:00:00.0
Handler Name: MICHIGAN GAS UTILITIES CORPORATION
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: 22121
NAICS Description: NATURAL GAS DISTRIBUTION

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

E36
NE
1/8-1/4
0.178 mi.
939 ft.
Site 5 of 7 in cluster E

GRAND HAVEN GAS LIGHT CO
310 S. HARBOR DRIVE
GRAND HAVEN, MI 49417

EDR MGP 1008408107
N/A

Relative:
Higher
Actual:
605 ft.

Manufactured Gas Plants:

Alternate Name: NATIONAL UTILITIES CO; MICHIGAN GAS UTILITIES; GRAND HAVEN GAS CO. No additional information available

E37
NE
1/8-1/4
0.178 mi.
939 ft.
Site 6 of 7 in cluster E

MICHIGAN GAS UTILITIES GRAND HAVEN(MGP)
310 SOUTH HARBOR DRIVE
GRAND HAVEN, MI 49417

MI PART 201 S107596690
MI INVENTORY N/A
MI BEA

Relative:
Higher
Actual:
605 ft.

PART 201:

Facility ID: 70000083
Facility Status: Interim Response in progress
Source: Gas Production & Distribution
SAM Score: 39
SAM Score Date: 06/18/2004
Township: 08N
Range: 16W
Section: 20
Quarter: SE
Quarter/Quarter: SW
Pollutants: Benzene; Benzo(a)anthracene; Benzo(a)pyrene; Ethylbenzene; Toluene; Xylenes

INVENTORY:

Name: MICHIGAN GAS UTILITIES GRAND HAVEN(MGP)
Address: 310 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06213
Longitude: -86.23526

BEA:

Name: 310 SOUTH HARBOR DRIVE
Address: 310 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1778
District: Grand Rapids
Date Received: 02/15/2006
Submitter Name: Grand Haven Cottages LLC
Petition Determination: Affirmed
Petition Disclosure: 1
Category: N
Determination 20107A: Affirmed
Reviewer: stringed
Division Assigned: ERD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES GRAND HAVEN(MGP) (Continued)

S107596690

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

Name: MICHIGAN GAS UTILITIES GRAND HAVEN(MGP)
Address: 310 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 02/15/2006
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 70000083
Submittal Type: Baseline Environmental Assessment
Submittal Number: P200601778GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2006-02-15 12:54:21
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 Associated ID # 70000083 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.

Organization: Grand Haven Cottages LLC
Contact: James A Henning
Contact Type: Submitter Contact

E38 MICHIGAN GAS UTILITIES CO
NE 310 S HARBOR DR
1/8-1/4 GRAND HAVEN, MI 49417
0.178 mi.
939 ft. Site 7 of 7 in cluster E

MI LUST U003102629
MI UST N/A
MI WDS

Relative: LUST:
Higher Name: MICHIGAN GAS UTILITIES CO
Actual: Address: 310 S HARBOR DR
605 ft. City,State,Zip: GRAND HAVEN, MI 49417-
Facility ID: 00005084
Source: STATE OF MICHIGAN
Owner Name: MichiganGas Utilities
Owner Address: Not reported
Owner City,St,Zip: UNKNOWN, MI
Owner Contact: Not reported
Owner Phone: Not reported
Country: USA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CO (Continued)

U003102629

District: Grand Rapids
Site Name: Michigan Gas Utilities
Latitude: 43.06206
Longitude: -86.23538
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-2195-90
Release Date: 10/26/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 04/14/1993

UST:

Name: MICHIGAN GAS UTILITIES CO
Address: 310 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417-1351
Facility Type: CLOSED
Facility ID: 00005084
Owner Name: MICHIGAN GAS UTILITIES
Owner Address: 742 E ALLEGAN ST
Owner City: OTSEGO
Owner State: MI
Owner Zip: 49078-1302
Owner Contact: Not reported
Owner Phone: 7342425555
Contact: DARRELL L STOUGHTON
Contact Phone: (616) 692-6351
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: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 04/10/1974
Remove Date: 08/02/1991
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

MICHIGAN GAS UTILITIES CO (Continued)

U003102629

Piping Material: Not reported
Piping Type: Not reported
Tank Construction: Not reported
Impressed Device: Not reported
Latitude: 43.06206
Longitude: -86.23538

WDS:

Name: MICHIGAN GAS UTILITIES CORPORATION
Address: 310 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIR000020057
WMD Id: 411181
Site Specific Name: MICHIGAN GAS UTILITIES
Mailing Address: 36 HIGHVIEW RD
Mailing City/State/Zip: 49686
Mailing County: GRAND TRAVERSE

Name: AQUILA INC
Address: 310 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIK117881375
WMD Id: 416047
Site Specific Name: AQUILA GRAND HAVEN MGP
Mailing Address: 36 HIGHVIEW RD
Mailing City/State/Zip: 49686
Mailing County: GRAND TRAVERSE

Name: MICHIGAN GAS UTILITIES CORPORATION
Address: 310 S HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIP200000722
WMD Id: 435845
Site Specific Name: MICHIGAN GAS UTILITIES CORPORATION
Mailing Address: 310 S HARBOR DR
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

F39
NE
1/8-1/4
0.228 mi.
1206 ft.

200 SOUTH HARBOR DRIVE
200 SOUTH HARBOR DRIVE
GRAND HAVEN, MI 49417

MI INVENTORY S106521746
MI BEA N/A

Site 1 of 3 in cluster F

Relative:
Higher

INVENTORY:

Actual:
605 ft.

Name: 200 SOUTH HARBOR DRIVE
Address: 200 SOUTH HARBOR DRIVE
City,State,Zip: MI 49417
Bea Number: 200401460GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Name: 200 SOUTH HARBOR DRIVE
Address: 200 SOUTH HARBOR DRIVE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

200 SOUTH HARBOR DRIVE (Continued)

S106521746

City,State,Zip: MI 49417
Bea Number: 200501616GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

BEA:

Name: 200 SOUTH HARBOR DRIVE
Address: 200 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1616
District: Grand Rapids
Date Received: 05/26/2005
Submitter Name: Brezza Di Lago Condominiums
Petition Determination: Affirmed
Petition Disclosure: 1
Category: N
Determination 20107A: No Request
Reviewer: monetd
Division Assigned: ERD
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

Name: 200 SOUTH HARBOR DRIVE
Address: 200 SOUTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1460
District: Grand Rapids
Date Received: 07/08/2004
Submitter Name: RDLH LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: N
Determination 20107A: No Request
Reviewer: heytg
Division Assigned: ERD
Location ID: Not reported
Submittal Type: Not reported
Submittal Number: Not reported
Approval Status: Not reported
Workflow Status: Not reported
Date Submitted: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

200 SOUTH HARBOR DRIVE (Continued)

S106521746

Date Completed: Not reported
Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

F40 NJM LLC
NE 200 S HARBOR DR
1/8-1/4 GRAND HAVEN, MI 49417
0.228 mi.
1206 ft. Site 2 of 3 in cluster F

MI UST U003966534
N/A

Relative: UST:
Higher Name: NJM LLC
Actual: Address: 200 S HARBOR DR
605 ft. City,State,Zip: GRAND HAVEN 49417-1438
Facility Type: CLOSED
Facility ID: 00041532
Owner Name: NJM LLC
Owner Address: 1417 COLFAX
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168425837
Contact: Nick Munch
Contact Phone: (616) 842-5837
Date of Collection: 04/22/2004
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: GPS Code Meas. Standard Positioning Service SA Off
District: Region 3 - Grand Rapids District Office
Tank ID: 3
Capacity: 1000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 04/22/2004
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: 43.06308
Longitude: -86.23500

Name: NJM LLC
Address: 200 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417-1438

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NJM LLC (Continued)

U003966534

Facility Type: CLOSED
Facility ID: 00041532
Owner Name: NJM LLC
Owner Address: 1417 COLFAX
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168425837
Contact: Nick Munch
Contact Phone: (616) 842-5837
Date of Collection: 04/22/2004
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: GPS Code Meas. Standard Positioning Service SA Off
District: Region 3 - Grand Rapids District Office
Tank ID: 2
Capacity: 500
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 04/22/2004
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: 43.06308
Longitude: -86.23500

Name: NJM LLC
Address: 200 S HARBOR DR
City,State,Zip: GRAND HAVEN 49417-1438
Facility Type: CLOSED
Facility ID: 00041532
Owner Name: NJM LLC
Owner Address: 1417 COLFAX
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168425837
Contact: Nick Munch
Contact Phone: (616) 842-5837
Date of Collection: 04/22/2004
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NJM LLC (Continued)

U003966534

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:	1000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	Not reported
Remove Date:	04/22/2004
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:	43.06308
Longitude:	-86.23500

F41
NE
1/8-1/4
0.246 mi.
1297 ft.

NJM LLC
200 S HARPER DR
GRAND HAVEN, MI 49417

RCRA NonGen / NLR

1007879889
MIK192579233

Site 3 of 3 in cluster F

Relative:
Lower
Actual:
597 ft.

RCRA NonGen / NLR:
Date Form Received by Agency:

2007-09-01 00:00:00.0

Handler Name: NJM LLC

Handler Address:

200 S HARPER DR

Handler City,State,Zip:

GRAND HAVEN, MI 49417

EPA ID:

MIK192579233

Contact Name:

NICK MUNCH

Contact Address:

200 S HARPER DR

Contact City,State,Zip:

GRAND HAVEN, MI 49417

Contact Telephone:

616-842-5837

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:

1417 COLFAX AVE

Mailing City,State,Zip:

GRAND HAVEN, MI 49417

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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NJM LLC (Continued)

1007879889

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:	2011-03-03 13:15:53.0
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NJM LLC (Continued)

1007879889

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE
Legal Status:	Private
Date Became Current:	2007-09-02 00:00:00.
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:	2007-09-02 00:00:00.
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:	2007-09-02 00:00:00.
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:	2007-09-02 00:00:00.
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:	2004-06-16 00:00:00.0
Handler Name:	NJM LLC
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NJM LLC (Continued)

1007879889

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: 2007-09-01 00:00:00.0
Handler Name: NJM LLC
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: 722211
NAICS Description: LIMITED-SERVICE RESTAURANTS

Facility Has Received Notices of Violations:

Violations: No Violations Found

Evaluation Action Summary:

Evaluations: No Evaluations Found

42
NW
1/4-1/2
0.269 mi.
1421 ft.

Relative:
Lower

Actual:
582 ft.

NORTH SHORE MARINA INC
18275 BERWYCK ST
SPRING LAKE, MI 49456

LUST:

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE, MI 49456-
Facility ID: 00003946
Source: STATE OF MICHIGAN
Owner Name: NorthShore Marina 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: North Shore Marina
Latitude: 43.06225
Longitude: -86.24227
Date of Collection: 10/21/2003

MI LUST
MI UST
MI INVENTORY
MI SPILLS
MI Financial Assurance
MI NPDES
MI WDS

U003327785
N/A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

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-0412-89
Release Date: 08/15/1989
Substance Released: Not reported
Release Status: Open
Release Closed Date: Not reported

UST:

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE 49456-9429
Facility Type: ACTIVE
Facility ID: 00003946
Owner Name: NORTH SHORE MARINA INC
Owner Address: 18275 BERWYCK DR
Owner City: SPRING LAKE
Owner State: MI
Owner Zip: 49456
Owner Contact: Not reported
Owner Phone: 6168421488
Contact: Joshua Fizer
Contact Phone: (616) 459-0125
Date of Collection: 10/21/2003
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: 6
Capacity: 4000
Tank Status: Currently In Use
Substance: Diesel
Install Date: 04/15/1990
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: 43.06225

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

Longitude: -86.24227

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE 49456-9429
Facility Type: ACTIVE
Facility ID: 00003946
Owner Name: NORTH SHORE MARINA INC
Owner Address: 18275 BERWYCK DR
Owner City: SPRING LAKE
Owner State: MI
Owner Zip: 49456
Owner Contact: Not reported
Owner Phone: 6168421488
Contact: Joshua Fizer
Contact Phone: (616) 459-0125
Date of Collection: 10/21/2003
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: 12000
Tank Status: Currently In Use
Substance: Gasoline
Install Date: 04/15/1990
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: 43.06225
Longitude: -86.24227

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE 49456-9429
Facility Type: ACTIVE
Facility ID: 00003946
Owner Name: NORTH SHORE MARINA INC
Owner Address: 18275 BERWYCK DR
Owner City: SPRING LAKE
Owner State: MI
Owner Zip: 49456
Owner Contact: Not reported
Owner Phone: 6168421488
Contact: Joshua Fizer
Contact Phone: (616) 459-0125
Date of Collection: 10/21/2003

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

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: 2000
Tank Status: Removed from Ground
Substance: Diesel
Install Date: 05/05/1966
Remove Date: 07/09/1990
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: 43.06225
Longitude: -86.24227

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE 49456-9429
Facility Type: ACTIVE
Facility ID: 00003946
Owner Name: NORTH SHORE MARINA INC
Owner Address: 18275 BERWYCK DR
Owner City: SPRING LAKE
Owner State: MI
Owner Zip: 49456
Owner Contact: Not reported
Owner Phone: 6168421488
Contact: Joshua Fizer
Contact Phone: (616) 459-0125
Date of Collection: 10/21/2003
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: 2000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 05/05/1966
Remove Date: 07/09/1990
Tank Number: Not reported
Tank Details Compartments: Not reported
Tank Release Detection: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

Pipe Release Detection:	Not reported
Piping Material:	Not reported
Piping Type:	Not reported
Tank Construction:	Not reported
Impressed Device:	Not reported
Latitude:	43.06225
Longitude:	-86.24227
Name:	NORTH SHORE MARINA INC
Address:	18275 BERWYCK ST
City,State,Zip:	SPRING LAKE 49456-9429
Facility Type:	ACTIVE
Facility ID:	00003946
Owner Name:	NORTH SHORE MARINA INC
Owner Address:	18275 BERWYCK DR
Owner City:	SPRING LAKE
Owner State:	MI
Owner Zip:	49456
Owner Contact:	Not reported
Owner Phone:	6168421488
Contact:	Joshua Fizer
Contact Phone:	(616) 459-0125
Date of Collection:	10/21/2003
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:	2000
Tank Status:	Removed from Ground
Substance:	Gasoline
Install Date:	05/05/1966
Remove Date:	07/09/1990
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:	43.06225
Longitude:	-86.24227
Name:	NORTH SHORE MARINA INC
Address:	18275 BERWYCK ST
City,State,Zip:	SPRING LAKE 49456-9429
Facility Type:	ACTIVE
Facility ID:	00003946
Owner Name:	NORTH SHORE MARINA INC
Owner Address:	18275 BERWYCK DR
Owner City:	SPRING LAKE
Owner State:	MI

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

Owner Zip: 49456
Owner Contact: Not reported
Owner Phone: 6168421488
Contact: Joshua Fizer
Contact Phone: (616) 459-0125
Date of Collection: 10/21/2003
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: 2000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 05/05/1966
Remove Date: 07/09/1990
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: 43.06225
Longitude: -86.24227

INVENTORY:

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE, MI 49456
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 213
Latitude: 43.06225
Longitude: -86.24227

PEAS:

Name: Not reported
Address: 18275 BERWYCK STREET
City,State,Zip: SPRING LAKE, MI
Incident Date: 2019-06-26 00:00:00
Office Status: Not reported
Initials of Incoming Operator: AH - PEAS
Time Received by DNRE Staff: Not reported
Time Occur: Not reported
Date Of PEAS Call: Not reported
Complainant / Company: Not reported
Complainant Address: Not reported
Company Involved: Not reported
DEQ Division Involved: WRD-WQ

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

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:	After 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:	18275 BERWYCK STREET
City,State,Zip:	SPRING LAKE, MI
Incident Date:	06/26/2019
Office Status:	Not reported
Initials of Incoming Operator:	AH - PEAS
Time Received by DNRE Staff:	Not reported
Time Occur:	Not reported
Date Of PEAS Call:	Not reported
Complainant / Company:	Not reported
Complainant Address:	Not reported
Company Involved:	Not reported
DEQ Division Involved:	WRD-WQ
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:	After 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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

FINANCIAL ASSURANCE 3:

Name: NORTH SHORE MARINA INC
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE, MI 49456-9429
Facility ID: 00003946
Exempt: No
Expiration Date: 02/28/2020
Bond Rating Tests: Not reported
Commerical Insurance: Not reported
Guarantee: Not reported
Letter of Credit: Not reported
Risk Retention Group: Not reported
Self Insurance: Not reported
State Funds: CHECKED
Surety Bond: Not reported
Trust Funds: Not reported
Year: 2019

MI NPDES:

Name: NORTH SHORE MARINA
Address: 18275 BERWYCK STREET
City,State,Zip: SPRING LAKE, MI 49456
Permit Number: MIS110807
Permittee PO Box: N
Permittee Email: Not reported
Issue Date: 10/07/2016
Effective Date: 10/07/2016
Expiration Date: 04/01/2021
Permittee Name: North Shore Marina, Incorporated
Permittee Address: 18275 Berwyck Street
Permittee Addr2: Not reported
Permittee City,St,Zip: Spring Lake, MI 49456
Permit Type: NPDES Certificate of Coverage under General Permit (COC)
Facility Name 2: Not reported
Facility Name 3: Not reported
Facility Name 4: Not reported
Designed Name: North Shore Marina
Latitude: 43.06071
Lat Direction: N
Lat Type Code: LAT
Longitude: -86.24297
Lon Direction: W
Lon Type Code: LON
Hydrologic Unit Code: 4050006
Permit Status: In Effect
COC Permit Category: SW-Industrial CY1
DEQ District Email: Grand Rapids
DEQ Permit Compliance Manager: Ryan Grant
DEQ Permit Compliance Manager Email: grantr3@michigan.gov

WDS:

Name: NORTH SHORE MARINA
Address: 18275 BERWYCK ST
City,State,Zip: SPRING LAKE, MI 49456
Site Id: MIG000013458
WMD Id: 420718

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NORTH SHORE MARINA INC (Continued)

U003327785

Site Specific Name: NORTH SHORE MARINA
Mailing Address: PO BOX 289
Mailing City/State/Zip: 49456
Mailing County: OTTAWA

G43
NNE
1/4-1/2
0.289 mi.
1528 ft.
Site 1 of 2 in cluster G

WESSELS INC
102 HARBOR
GRAND HAVEN, MI 49417

MI LUST
MI UST
MI INVENTORY

U003327562
N/A

Relative:
Lower
Actual:
595 ft.

LUST:
Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN, MI 49417-
Facility ID: 00001092
Source: STATE OF MICHIGAN
Owner Name: WesselsInc
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: Wessels Inc
Latitude: 43.06380
Longitude: -86.23460
Date of Collection: 05/03/2015
Method of Collection: Interpolation-Photo
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-0011-00
Release Date: 01/04/2000
Substance Released: Unknown
Release Status: Open
Release Closed Date: Not reported

UST:
Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00001092
Owner Name: WESSELS INC
Owner Address: 102 HARBOR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESSELS INC (Continued)

U003327562

Owner Contact: Not reported
Owner Phone: 6168420750
Contact: THOMAS NAUTA OR E. BISHOP
Contact Phone: (616) 842-0750
Date of Collection: 05/03/2015
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: Interpolation-Photo
District: Region 3 - Grand Rapids District Office
Tank ID: 5
Capacity: 500
Tank Status: Removed from Ground
Substance: Not reported
Install Date: 02/14/1956
Remove Date: 02/08/1990
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: 43.06380
Longitude: -86.23460

Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00001092
Owner Name: WESSELS INC
Owner Address: 102 HARBOR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168420750
Contact: THOMAS NAUTA OR E. BISHOP
Contact Phone: (616) 842-0750
Date of Collection: 05/03/2015
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: Interpolation-Photo
District: Region 3 - Grand Rapids District Office
Tank ID: 4
Capacity: 1000
Tank Status: Removed from Ground
Substance: Other(DRAIN OIL),Used Oil

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESSELS INC (Continued)

U003327562

Install Date: 02/14/1956
Remove Date: 02/08/1990
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: 43.06380
Longitude: -86.23460

Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00001092
Owner Name: WESSELS INC
Owner Address: 102 HARBOR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168420750
Contact: THOMAS NAUTA OR E. BISHOP
Contact Phone: (616) 842-0750
Date of Collection: 05/03/2015
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: Interpolation-Photo
District: Region 3 - Grand Rapids District Office
Tank ID: 3
Capacity: 3000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 02/14/1956
Remove Date: 02/08/1990
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: 43.06380
Longitude: -86.23460

Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESSELS INC (Continued)

U003327562

Facility ID: 00001092
Owner Name: WESSELS INC
Owner Address: 102 HARBOR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168420750
Contact: THOMAS NAUTA OR E. BISHOP
Contact Phone: (616) 842-0750
Date of Collection: 05/03/2015
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: Interpolation-Photo
District: Region 3 - Grand Rapids District Office
Tank ID: 2
Capacity: 3000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 02/14/1956
Remove Date: 02/08/1990
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: 43.06380
Longitude: -86.23460

Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00001092
Owner Name: WESSELS INC
Owner Address: 102 HARBOR
Owner City: GRAND HAVEN
Owner State: MI
Owner Zip: 49417
Owner Contact: Not reported
Owner Phone: 6168420750
Contact: THOMAS NAUTA OR E. BISHOP
Contact Phone: (616) 842-0750
Date of Collection: 05/03/2015
Accuracy: 100
Horizontal Datum: NAD83
Accuracy Value Unit: FEET
Source: STATE OF MICHIGAN
Point Line Area: POINT
Desc Category: Plant Entrance (Freight)

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

WESSELS INC (Continued)

U003327562

Method of Collection: Interpolation-Photo
District: Region 3 - Grand Rapids District Office
Tank ID: 1
Capacity: 4000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: 02/14/1956
Remove Date: 02/08/1990
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: 43.06380
Longitude: -86.23460

INVENTORY:

Name: WESSELS INC
Address: 102 HARBOR
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 213
Latitude: 43.0638
Longitude: -86.2346

G44
NNE
1/4-1/2
0.315 mi.
1664 ft.

1 SOUTH HARBOR DRIVE
1 SOUTH HARBOR DRIVE
OTTAWA (County), MI 49417
Site 2 of 2 in cluster G

MI INVENTORY S119009101
MI BEA N/A

Relative:
Lower

INVENTORY:

Actual:
591 ft.

Name: 1 SOUTH HARBOR DRIVE
Address: 1 SOUTH HARBOR DRIVE
City,State,Zip: MI 49417
Bea Number: 201704467GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

BEA:

Name: 1 SOUTH HARBOR DRIVE
Address: 1 SOUTH HARBOR DRIVE
City,State,Zip: MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 01/10/2017
Submitter Name: Not reported
Petition Determination: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

1 SOUTH HARBOR DRIVE (Continued)

S119009101

Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 70000624
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201704467GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2017-01-17 07:27:42
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category B1 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists. The property is currently a parking lot and from aerial photos, has been a parking lot for over 30 years. Groundwater has VOCs, PNAs and Pb (potentially from an up-gradient source) above DW and GSI and soils has TCE, metals and PNAs above DWP and GSIP.
Organization: One South Harbor Parking Lot LLC
Contact: Kirk Perschbacher
Contact Type: Submitter Contact

45
NE
1/4-1/2
0.336 mi.
1776 ft.

33 FRANKLIN AVENUE
33 FRANKLIN AVENUE
GRAND HAVEN, MI 49417

MI INVENTORY S108669797
MI BEA N/A

Relative:
Lower
Actual:
597 ft.

INVENTORY:

Name: 33 FRANKLIN AVENUE
Address: 33 FRANKLIN AVENUE
City,State,Zip: MI 49417
Bea Number: 200702110GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.06386
Longitude: -86.23327

Name: 33 FRANKLIN AVENUE
Address: 33 FRANKLIN AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06386
Longitude: -86.23327

BEA:

Name: 33 FRANKLIN AVENUE
Address: 33 FRANKLIN AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

33 FRANKLIN AVENUE (Continued)

S108669797

BEA Number: 2110
District: Grand Rapids
Date Received: 06/26/2007
Submitter Name: City of Grand Haven
Petition Determination: No Request
Petition Disclosure: 0
Category: N
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

H46
NE
1/4-1/2
0.384 mi.
2026 ft.
Site 1 of 2 in cluster H

INVENTORY:

Relative:
Higher

Actual:
601 ft.

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Bea Number: 201503961GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Bea Number: 201804911GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Bea Number: 201804910GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA

MI INVENTORY
MI BEA

S117731731
N/A

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

15 SOUTH 2ND STREET (Continued)

S117731731

Latitude: Not reported
Longitude: Not reported

BEA:

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/11/2018
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: 70000601
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201804910GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2018-10-11 15:32:00
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Not reported
Organization: Fifteen South LLC
Contact: Kirk W. Perschbacher
Contact Type: Submitter Contact

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/11/2018
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: 70000601
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201804911GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2018-10-11 15:35:21
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Not reported
Organization: RedFive IT, LLC

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

15 SOUTH 2ND STREET (Continued)

S117731731

Contact: Kirk W. Perschbacher
Contact Type: Submitter Contact

Name: 15 SOUTH 2ND STREET
Address: 15 SOUTH 2ND STREET
City,State,Zip: MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 03/04/2015
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: 70000601
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201503961GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2015-03-09 07:09:39
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category B1 (Associated ID #s like ITS and Site ID go here.) REVIEW
CONCLUSION: BEA identifies a new concern, in whole or in part, and
assessment of the available information indicates no imminent, ongoing
or evident future significant risk exists. FURTHER ASSESSMENT,
NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: The property
located at 15 South 2nd Street in Grand Haven is currently operating
as a commercial office space. A 2015 BEA indicates that the new owner
intends to con
Organization: HC Capital Partners VI, LLC
Contact: Kirk Perschbacher
Contact Type: Submitter Contact

147
NE
1/4-1/2
0.394 mi.
2080 ft.

HABOURFRONT PLACE
41 WASHINGTON AVENUE
GRAND HAVEN, MI 49417

Site 1 of 2 in cluster I

MI PART 201
MI INVENTORY
MI BEA
MI NPDES

S106787584
N/A

Relative:
Lower
Actual:
595 ft.

PART 201:
Facility ID: 70000325
Facility Status: Interim Response conducted - No further activities anticipated
Source: Private Households
SAM Score: 30
SAM Score Date: 10/25/2004
Township: 8N
Range: 16W
Section: 20
Quarter: SE
Quarter/Quarter: NW
Pollutants: PCE

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HABOURFRONT PLACE (Continued)

S106787584

INVENTORY:

Name: HABOURFRONT PLACE
Address: 41 WASHINGTON AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06501
Longitude: -86.23268

BEA:

Name: HARBOURFRONT PLACE
Address: 41 WASHINGTON STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1301
District: Grand Rapids
Date Received: 10/22/2003
Submitter Name: Piano Factory, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: N
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

Name: HABOURFRONT PLACE
Address: 41 WASHINGTON AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/22/2003
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: 70000325
Submittal Type: Baseline Environmental Assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HABOURFRONT PLACE (Continued)

S106787584

Submission Number: B200301301GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 (Associated ID #700325 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.
Organization: Piano Factory, LLC
Contact: Kevin Einfeld
Contact Type: Submitter Contact

MI NPDES:

Name: PIANO FACTORY-GRAND HAVEN
Address: 41 WASHINGTON STREET
City,State,Zip: GRAND HAVEN, MI 49417
Permit Number: MI0054399
Permittee PO Box: N
Permittee Email: Not reported
Issue Date: 03/21/2017
Effective Date: 05/01/2017
Expiration Date: 10/01/2020
Permittee Name: Piano Factory, LLC
Permittee Address: 5510 Cascade Road, SE
Permittee Addr2: Suite 200
Permittee City,St,Zip: Grand Rapids, MI 49546
Permit Type: NPDES Individual Permit
Facility Name 2: Not reported
Facility Name 3: Not reported
Facility Name 4: Not reported
Designed Name: Piano Factory-Grand Haven
Latitude: 43.0647
Lat Direction: N
Lat Type Code: LAT
Longitude: -86.2325
Lon Direction: W
Lon Type Code: LON
Hydrologic Unit Code: 4050006
Permit Status: Extended
COC Permit Category: Not reported
DEQ District Email: Grand Rapids
DEQ Permit Compliance Manager: Chris Veldkamp
DEQ Permit Compliance Manager Email: veldkampc@michigan.gov

I48
NE
1/4-1/2
0.394 mi.
2080 ft.

HABOURFRONT PLACE
41 WASHINGTON STREET
OTTAWA (County), MI 49417

MI INVENTORY S114029754
N/A

Site 2 of 2 in cluster I

Relative:
Lower

INVENTORY:

Actual:
595 ft.

Name: HABOURFRONT PLACE
Address: 41 WASHINGTON STREET
City,State,Zip: MI 49417
Bea Number: 200301301GR

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

HARBOURFRONT PLACE (Continued)

S114029754

Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.06501
Longitude: -86.23268

J49
NNE
1/4-1/2
0.415 mi.
2193 ft.

20 NORTH HARBOR DRIVE
20 NORTH HARBOR DRIVE
GRAND HAVEN, MI

MI INVENTORY S126329856
N/A

Site 1 of 2 in cluster J

Relative:
Lower

INVENTORY:

Actual:
592 ft.

Name: 20 NORTH HARBOR DRIVE
Address: 20 NORTH HARBOR DRIVE
City,State,Zip: GRAND HAVEN, MI
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06557
Longitude: -86.23355

H50
NE
1/4-1/2
0.429 mi.
2267 ft.

206 WASHINGTON STREET
206 WASHINGTON ST.
GRAND HAVEN, MI 49417

US BROWNFIELDS FINDS 1016360382
N/A

Site 2 of 2 in cluster H

Relative:
Higher

US BROWNFIELDS:

Actual:
602 ft.

Name: 206 WASHINGTON STREET
Address: 206 WASHINGTON ST.
City,State,Zip: GRAND HAVEN, MI 49417
Recipient Name: Macatawa Area Coordinating Council
Grant Type: Assessment
Property Number: 70-03-20-436-003
Parcel size: .07
Latitude: 43.063574
Longitude: -86.23069799999996
HCM Label: Address Matching-House Number
Map Scale: -
Point of Reference: Entrance Point of a Facility or Station
Highlights: Former Use: The subject property was originally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the building was constructed.

Datum:
Acres Property ID:

North American Datum of 1983
135841

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

IC Data Access:	-
Start Date:	-
Redev Completion Date:	03/08/2010
Completed Date:	-
Acres Cleaned Up:	-
Cleanup Funding:	-
Cleanup Funding Source:	-
Assessment Funding:	2200
Assessment Funding Source:	EPA
Redevelopment Funding:	430000
Redev. Funding Source:	CCS Technologies
Redev. Funding Entity Name:	Private/Other Funding
Redevelopment Start Date:	11/06/2009
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E43601
Start Date:	08/14/2009
Ownership Entity:	Private
Completion Date:	09/03/2009
Current Owner:	CCS Technologies
Did Owner Change:	N
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	.07
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	.07
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-
Cadmium cleaned up:	-
Chromium cleaned up:	-
Copper cleaned up:	-
Iron cleaned up:	-
mercury cleaned up:	-
Nickel Cleaned Up:	-
No clean up:	-
Pesticides cleaned up:	-
Selenium cleaned up:	-
SVOCs cleaned up:	-
Unknown clean up:	-
Arsenic contaminant found:	-
Cadmium contaminant found:	-
Chromium contaminant found:	-
Copper contaminant found:	-
Iron contaminant found:	-
Mercury contaminant found:	-
Nickel contaminant found:	-
No contaminant found:	-
Pesticides contaminant found:	-
Selenium contaminant found:	-
SVOCs contaminant found:	-
Unknown contaminant found:	-
Future Use: Multistory	-
Media affected Bluiding Material:	-
Media affected indoor air:	-
Building material media cleaned up:	-
Indoor air media cleaned up:	-
Unknown media cleaned up:	-
Past Use: Multistory	Not reported
Property Description:	The subject property was orginally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the building was constructed.

Below Poverty Number: 330
Below Poverty Percent: 15.2
Meidan Income: 3856
Meidan Income Number: 790
Meidan Income Percent: 36.39
Vacant Housing Number: 309
Vacant Housing Percent: 22.89
Unemployed Number: 200
Unemployed Percent: 9.21

Name: 206 WASHINGTON STREET
Address: 206 WASHINGTON ST.
City,State,Zip: GRAND HAVEN, MI 49417
Recipient Name: Macatawa Area Coordinating Council
Grant Type: Assessment
Property Number: 70-03-20-436-003
Parcel size: .07
Latitude: 43.063574
Longitude: -86.23069799999996
HCM Label: Address Matching-House Number
Map Scale: -
Point of Reference: Entrance Point of a Facility or Station
Highlights: Former Use: The subject property was originally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the building was constructed.

Datum: North American Datum of 1983
Acres Property ID: 135841
IC Data Access: -
Start Date: -
Redev Completion Date: 03/08/2010
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -
Cleanup Funding Source: -
Assessment Funding: 2200
Assessment Funding Source: EPA
Redevelopment Funding: 430000
Redev. Funding Source: CCS Technologies
Redev. Funding Entity Name: Private/Other Funding

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Redevelopment Start Date:	11/06/2009
Assessment Funding Entity:	US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity:	-
Grant Type:	Hazardous
Accomplishment Type:	Phase I Environmental Assessment
Accomplishment Count:	Y
Cooperative Agreement Number:	00E43601
Start Date:	08/14/2009
Ownership Entity:	Private
Completion Date:	09/03/2009
Current Owner:	CCS Technologies
Did Owner Change:	N
Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Num. of cleanup and re-dev. jobs: 2
Past use greenspace acreage: -
Past use residential acreage: -
Surface Water: -
Past use commercial acreage: .07
Past use industrial acreage: -
Future use greenspace acreage: -
Future use residential acreage: -
Future use commercial acreage: .07
Future use industrial acreage: -
Superfund Fed. landowner flag: N
Arsenic cleaned up: -
Cadmium cleaned up: -
Chromium cleaned up: -
Copper cleaned up: -
Iron cleaned up: -
mercury cleaned up: -
Nickel Cleaned Up: -
No clean up: -
Pesticides cleaned up: -
Selenium cleaned up: -
SVOCs cleaned up: -
Unknown clean up: -
Arsenic contaminant found: -
Cadmium contaminant found: -
Chromium contaminant found: -
Copper contaminant found: -
Iron contaminant found: -
Mercury contaminant found: -
Nickel contaminant found: -
No contaminant found: -
Pesticides contaminant found: -
Selenium contaminant found: -
SVOCs contaminant found: -
Unknown contaminant found: -
Future Use: Multistory -
Media affected Bluiding Material: -
Media affected indoor air: -
Building material media cleaned up: -
Indoor air media cleaned up: -
Unknown media cleaned up: -

Past Use: Multistory
Property Description:

Not reported

The subject property was orginally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the buidling was constructed.

Below Poverty Number: 330
Below Poverty Percent: 15.2
Meidan Income: 3856

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Meidan Income Number: 790
Meidan Income Percent: 36.39
Vacant Housing Number: 309
Vacant Housing Percent: 22.89
Unemployed Number: 200
Unemployed Percent: 9.21

Name: 206 WASHINGTON STREET
Address: 206 WASHINGTON ST.
City,State,Zip: GRAND HAVEN, MI 49417
Recipient Name: Macatawa Area Coordinating Council
Grant Type: Assessment
Property Number: 70-03-20-436-003
Parcel size: .07
Latitude: 43.063574
Longitude: -86.23069799999996
HCM Label: Address Matching-House Number
Map Scale: -
Point of Reference: Entrance Point of a Facility or Station
Highlights: Former Use: The subject property was originally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the building was constructed.

Datum: North American Datum of 1983
Acres Property ID: 135841
IC Data Access: -
Start Date: -
Redev Completion Date: 03/08/2010
Completed Date: -
Acres Cleaned Up: -
Cleanup Funding: -
Cleanup Funding Source: -
Assessment Funding: 2200
Assessment Funding Source: EPA
Redevelopment Funding: 430000
Redev. Funding Source: CCS Technologies
Redev. Funding Entity Name: Private/Other Funding
Redevelopment Start Date: 11/06/2009
Assessment Funding Entity: US EPA - Brownfields Assessment Cooperative Agreement
Cleanup Funding Entity: -
Grant Type: Hazardous
Accomplishment Type: Phase I Environmental Assessment
Accomplishment Count: Y
Cooperative Agreement Number: 00E43601
Start Date: 08/14/2009
Ownership Entity: Private
Completion Date: 09/03/2009
Current Owner: CCS Technologies
Did Owner Change: N

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Cleanup Required:	N
Video Available:	N
Photo Available:	Y
Institutional Controls Required:	N
IC Category Proprietary Controls:	-
IC Cat. Info. Devices:	-
IC Cat. Gov. Controls:	-
IC Cat. Enforcement Permit Tools:	-
IC in place date:	-
IC in place:	N
State/tribal program date:	-
State/tribal program ID:	-
State/tribal NFA date:	-
Air cleaned:	-
Asbestos found:	-
Asbestos cleaned:	-
Controlled substance found:	-
Controlled substance cleaned:	-
Drinking water affected:	-
Drinking water cleaned:	-
Groundwater affected:	-
Groundwater cleaned:	-
Lead contaminant found:	-
Lead cleaned up:	-
No media affected:	Not reported
Unknown media affected:	-
Other cleaned up:	-
Other metals found:	-
Other metals cleaned:	-
Other contaminants found:	-
Other contams found description:	-
PAHs found:	-
PAHs cleaned up:	-
PCBs found:	-
PCBs cleaned up:	-
Petro products found:	-
Petro products cleaned:	-
Sediments found:	-
Sediments cleaned:	-
Soil affected:	-
Soil cleaned up:	-
Surface water cleaned:	-
VOCs found:	-
VOCs cleaned:	-
Cleanup other description:	-
Num. of cleanup and re-dev. jobs:	2
Past use greenspace acreage:	-
Past use residential acreage:	-
Surface Water:	-
Past use commercial acreage:	.07
Past use industrial acreage:	-
Future use greenspace acreage:	-
Future use residential acreage:	-
Future use commercial acreage:	.07
Future use industrial acreage:	-
Superfund Fed. landowner flag:	N
Arsenic cleaned up:	-

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Cadmium cleaned up: -
Chromium cleaned up: -
Copper cleaned up: -
Iron cleaned up: -
mercury cleaned up: -
Nickel Cleaned Up: -
No clean up: -
Pesticides cleaned up: -
Selenium cleaned up: -
SVOCs cleaned up: -
Unknown clean up: -
Arsenic contaminant found: -
Cadmium contaminant found: -
Chromium contaminant found: -
Copper contaminant found: -
Iron contaminant found: -
Mercury contaminant found: -
Nickel contaminant found: -
No contaminant found: -
Pesticides contaminant found: -
Selenium contaminant found: -
SVOCs contaminant found: -
Unknown contaminant found: -
Future Use: Multistory -
Media affected Bluiding Material: -
Media affected indoor air: -
Building material media cleaned up: -
Indoor air media cleaned up: -
Unknown media cleaned up: -
Past Use: Multistory
Property Description:

Not reported

The subject property was orginally developed as early as 1883 with the existing subject building. From that time until approximately 1956 the subject property operated as a grocery store and a residential dwelling. From approximately 1956 through 1969 the subject building was occupied by Murray R. White photography studio, and in 1974 by the Paris photography studio. From the late 1970s through the early 1980s, the subject property was operated as a gift store, and was occupied by U-Neek Shop 1979, The Wildlife Place 1984, and the Side Door Shop 1984. In 1987, the subject building was converted into a beauty salon on the 1st floor, and a concrete floor was poured in the basement for additional beauty shop space. The 2nd floor has remained residential since the buidling was constructed.

Below Poverty Number: 330
Below Poverty Percent: 15.2
Meidan Income: 3856
Meidan Income Number: 790
Meidan Income Percent: 36.39
Vacant Housing Number: 309
Vacant Housing Percent: 22.89
Unemployed Number: 200
Unemployed Percent: 9.21

FINDS:

Registry ID: 110044759936

Click Here:

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

206 WASHINGTON STREET (Continued)

1016360382

Environmental Interest/Information System:

US EPA Assessment, Cleanup and Redevelopment Exchange System (ACRES)
is an federal online database for Brownfields Grantees to
electronically submit data directly to EPA.

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

J51
NNE
1/4-1/2
0.432 mi.
2283 ft.

GRAND HAVEN MUNICIPAL MARINA
101 N HARBOR DR
GRAND HAVEN, MI 49417
Site 2 of 2 in cluster J

MI LUST U000263659
MI UST N/A
MI INVENTORY
MI WDS

Relative:
Lower

LUST:

Actual:
590 ft.

Name: GRAND HAVEN MUNICIPAL MARINA
Address: 101 N HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417-
Facility ID: 00034453
Source: STATE OF MICHIGAN
Owner Name: NOWS- City of Grand Haven
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: Grand Haven Municipal Marina
Latitude: 43.06591
Longitude: -86.23362
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-1930-90
Release Date: 08/30/1990
Substance Released: Not reported
Release Status: Closed
Release Closed Date: 06/05/1997

UST:

Name: GRAND HAVEN MUNICIPAL MARINA
Address: 101 N HARBOR DR
City,State,Zip: GRAND HAVEN 49417-1241
Facility Type: CLOSED
Facility ID: 00034453
Owner Name: NOWS - CITY OF GRAND HAVEN
Owner Address: 519 WASHINGTON AVE
Owner City: GRAND HAVEN

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GRAND HAVEN MUNICIPAL MARINA (Continued)

U000263659

Owner State: MI
Owner Zip: 49417-1454
Owner Contact: Not reported
Owner Phone: 6168424430
Contact: RICHARD G. SZCZEPANEK
Contact Phone: (616) 842-3450
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: 5000
Tank Status: Removed from Ground
Substance: Gasoline
Install Date: Not reported
Remove Date: 09/14/1992
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: 43.06591
Longitude: -86.23362

INVENTORY:

Name: GRAND HAVEN MUNICIPAL MARINA
Address: 101 N HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 213
Latitude: 43.06591
Longitude: -86.23363

WDS:

Name: CITY OF GRAND HAVEN
Address: 101 N HARBOR DR
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIG000029701
WMD Id: 447835
Site Specific Name: CITY OF GRAND HAVEN
Mailing Address: 101 N HARBOR DR
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

52
NE
1/4-1/2
0.452 mi.
2386 ft.

128 COLUMBUS AVENUE
128 COLUMBUS AVENUE
GRAND HAVEN, MI 49417

MI INVENTORY
MI BEA
MI WDS

S110996703
N/A

Relative:
Lower

INVENTORY:

Actual:
596 ft.

Name: 128 COLUMBUS AVENUE
Address: 128 COLUMBUS AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06503
Longitude: -86.23132

Name: 128 COLUMBUS AVENUE
Address: 128 COLUMBUS AVENUE
City,State,Zip: MI 49417
Bea Number: 201102945GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.06503
Longitude: -86.23132

Name: 128 COLUMBUS AVENUE
Address: 128 COLUMBUS AVENUE
City,State,Zip: MI 49417
Bea Number: 201804739GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.06503
Longitude: -86.23132

BEA:

Name: 128 COLUMBUS AVENUE
Address: 128 COLUMBUS AVENUE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 2945
District: Grand Rapids
Date Received: 05/23/2011
Submitter Name: Mindset Properties LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: Not reported
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

128 COLUMBUS AVENUE (Continued)

S110996703

Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

WDS:

Name: MINDSET PROPERTIES LLC
Address: 128 COLUMBUS AVE
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIK190632785
WMD Id: 490357
Site Specific Name: MINDSET PROPERTIES LLC
Mailing Address: 219 N 7TH STREET
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

K53
ENE
1/4-1/2
0.472 mi.
2493 ft.

233 WASHINGTON AVENUE (SEE COMMENTS)
233 WASHINGTON AVENUE (SEE COMMENTS)
OTTAWA (County), MI 49417

MI INVENTORY **S122898353**
N/A

Site 1 of 3 in cluster K

Relative:
Higher
Actual:
600 ft.

INVENTORY:
Name: 233 WASHINGTON AVENUE (SEE COMMENTS)
Address: 233 WASHINGTON AVENUE (SEE COMMENTS)
City,State,Zip: MI 49417
Bea Number: 201804896GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Name: 233 WASHINGTON AVENUE (SEE COMMENTS)
Address: 233 WASHINGTON AVENUE (SEE COMMENTS)
City,State,Zip: MI 49417
Bea Number: 201804897GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

K54
ENE
1/4-1/2
0.472 mi.
2493 ft.

233 WASHINGTON AVENUE (SEE COMMENTS)
233 WASHINGTON AVENUE (SEE COMMENTS)
GRAND HAVEN, MI 49417

MI BEA **S127499259**
N/A

Site 2 of 3 in cluster K

Relative:
Higher
Actual:
600 ft.

BEA:
Name: 233 WASHINGTON AVENUE (SEE COMMENTS)
Address: 233 WASHINGTON AVENUE (SEE COMMENTS)
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

233 WASHINGTON AVENUE (SEE COMMENTS (Continued)

S127499259

BEA Number:	Not reported
District:	Not reported
Date Received:	10/02/2018
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:	70000638
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B201804898GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2018-10-03 12:49:18
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Grand Rapids
Comments:	Additional Addresses and Lat/Long: 211 Columbus Avenue - 43.064907, -86.229743 100 North 2nd Street - 43.064972, -86.230055 112 North 2nd Street - 43.065253, -86.229945 200 Fulton Avenue - 43.065461, -86.229972
Organization:	BDR Executive Custom Homes, Inc.
Contact:	Jennifer L. Knuth
Contact Type:	Submitter Contact
Name:	233 WASHINGTON AVENUE (SEE COMMENTS
Address:	233 WASHINGTON AVENUE (SEE COMMENTS
City,State,Zip:	GRAND HAVEN, MI 49417
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	10/02/2018
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:	70000638
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B201804896GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2018-10-03 12:36:10
Date Completed:	Not reported
Township:	Not reported
Work Unit:	Grand Rapids
Comments:	Additional Addresses and Lat/Long: 211 Columbus Avenue - 43.064907, -86.229743 100 North 2nd Street - 43.064972, -86.230055 112 North 2nd Street - 43.065253, -86.229945 200 Fulton Avenue - 43.065461, -86.229972
Organization:	233, LLC
Contact:	Jennifer L. Knuth
Contact Type:	Submitter Contact

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

233 WASHINGTON AVENUE (SEE COMMENTS (Continued))

S127499259

Name: 233 WASHINGTON AVENUE (SEE COMMENTS)
Address: 233 WASHINGTON AVENUE (SEE COMMENTS)
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/02/2018
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: 70000638
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201804897GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2018-10-03 12:44:15
Date Completed: Not reported
Township: Not reported
Work Unit: Grand Rapids
Comments: Addition Addresses and Lat/Long: 211 Columbus Avenue - 43.064907, -86.229743 100 North 2nd Street - 43.064972, -86.230055 112 North 2nd Street - 43.065253, -86.229945 200 Fulton Avenue - 43.065253, -86.229945

Organization: BDR Management, LLC
Contact: Jennifer L. Knuth
Contact Type: Submitter Contact

K55 233 WASHINGTON AVENUE (SEE COMMENTS)
ENE 233 WASHINGTON AVENUE (SEE COMMENTS)
1/4-1/2 OTTAWA (County), MI 49417
0.472 mi.
2493 ft. Site 3 of 3 in cluster K

MI INVENTORY **S122898354**
N/A

Relative:
Higher

Actual:
600 ft.

INVENTORY:
Name: 233 WASHINGTON AVENUE (SEE COMMENTS)
Address: 233 WASHINGTON AVENUE (SEE COMMENTS)
City,State,Zip: MI 49417
Bea Number: 201804898GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: Not reported
Longitude: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

56
NE
1/2-1
0.688 mi.
3633 ft.

JACKSON & 3RD STREET
JACKSON & 3RD STREET
GRAND HAVEN, MI 49417

MI PART 201
MI INVENTORY
MI BEA

S106880412
N/A

Relative:
Lower

PART 201:

Actual:
589 ft.

Facility ID: 70000322
Facility Status: Inactive - no actions taken to address contamination
Source: Unknown
SAM Score: 21
SAM Score Date: 10/18/2004
Township: 08N
Range: 16W
Section: 20
Quarter: NE
Quarter/Quarter: SE
Pollutants: Pb; Metals

INVENTORY:

Name: JACKSON & 3RD STREET
Address: JACKSON & 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06706
Longitude: -86.22661

BEA:

Name: JACKSON & 3RD STREET
Address: JACKSON & 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 07/29/1996
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: 70000322
Submittal Type: Baseline Environmental Assessment
Submittal Number: P199600075GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category B1 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: BEA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JACKSON & 3RD STREET (Continued)

S106880412

identified metals in the soils, this contamination may be associated with historical railroad operations on the property.

Organization: Pere Marquette Partners
Contact: Mark Oppenhuizen
Contact Type: Submitter Contact

Name: JACKSON & 3RD STREET
Address: JACKSON & 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 11/06/1995
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: 70000322
Submittal Type: Baseline Environmental Assessment
Submittal Number: B199500021GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category B1 REVIEW CONCLUSION: BEA identifies a new concern, in whole or in part, and assessment of the available information indicates no imminent, ongoing or evident future significant risk exists. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: BEA identified metals in the soils, this contamination may be associated with historical railroad operations on the property.

Organization: City of Grand Haven
Contact: Bryan D Bench
Contact Type: Submitter Contact

57 NEIDLINGER OIL CO
ESE 815 VERHOEKS
1/2-1 GRAND HAVEN, MI 49417
0.830 mi.
4385 ft.

SEMS-ARCHIVE 1003871501
MI INVENTORY MID980992994
MI PART 201
MI WDS

Relative: SEMS Archive:
Higher Site ID: 0503173
Actual: EPA ID: MID980992994
608 ft. Name: NEIDLINGER OIL CO
Address: 815 VERHOEKS
Address 2: Not reported
City,State,Zip: GRAND HAVEN, MI 49417
Cong District: 04
FIPS Code: 26139
FF: N
NPL: Not on the NPL
Non NPL Status: NFRAP-Site does not qualify for the NPL based on existing information

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEIDLINGER OIL CO (Continued)

1003871501

SEMS Archive Detail:

Region: 05
Site ID: 0503173
EPA ID: MID980992994
Site Name: NEIDLINGER OIL CO
NPL: N
FF: N
OU: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1
Start Date: Not reported
Finish Date: 1986-07-29 04:00:00
Qual: Not reported
Current Action Lead: EPA Perf In-Hse

Region: 05
Site ID: 0503173
EPA ID: MID980992994
Site Name: NEIDLINGER OIL CO
NPL: N
FF: N
OU: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1
Start Date: 1984-06-01 05:00:00
Finish Date: 1984-06-01 05:00:00
Qual: Not reported
Current Action Lead: EPA Perf

Region: 05
Site ID: 0503173
EPA ID: MID980992994
Site Name: NEIDLINGER OIL CO
NPL: N
FF: N
OU: 00
Action Code: PA
Action Name: PA
SEQ: 1
Start Date: Not reported
Finish Date: 1986-07-29 04:00:00
Qual: N
Current Action Lead: St Perf

INVENTORY:

Name: NEIDLINGER OIL
Address: 815 VERHOEKS AVE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Spring Lake
District: Grand Rapids
Data Source: Part 201
Latitude: 43.05579

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NEIDLINGER OIL CO (Continued)

1003871501

Longitude: -86.22245

PART 201:

Facility ID: 70000012
Facility Status: **Interim Response conducted - No further activities anticipated**
Source: Petroleum Bulk Stations & Term
SAM Score: 32
SAM Score Date: 07/11/2005
Township: 08N
Range: 16W
Section: 28
Quarter: NW
Quarter/Quarter: NW
Pollutants: Benzene; Toluene; Xylenes

WDS:

Name: MERLE BOES INC
Address: 815 VERHOEKS ST
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIG000059054
WMD Id: 424721
Site Specific Name: MERLE BOES INC
Mailing Address: 815 VERHOEKS ST
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

58
NE
1/2-1
0.846 mi.
4466 ft.

SHELL OIL CO
740 N 3RD ST
GRAND HAVEN, MI 49417

MI LUST
MI UST
MI AUL
MI INVENTORY
MI PART 201
MI BEA
U003102512
N/A

Relative:
Lower

Actual:
589 ft.

LUST:

Name: SHELL OIL CO
Address: 740 N 3RD ST
City,State,Zip: GRAND HAVEN, MI 49417-
Facility ID: 00004316
Source: STATE OF MICHIGAN
Owner Name: Shell OilProducts
Owner Address: ATTN:R K WILLIAMS PO BOX 2099 TSP 1427
Owner City,St,Zip: HOUSTON, TX 77252-
Owner Contact: Not reported
Owner Phone: Not reported
Country: US
District: Grand Rapids
Site Name: Shell Oil Distribution Plant
Latitude: 43.06923
Longitude: -86.22625
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Risk Condition: Not reported
Project Manager: Not reported
Senate District: Not reported
House District: Not reported
US Congressional District: Not reported

Leak Number: C-1805-91
Release Date: 02/14/1992
Substance Released: Unknown,Unknown
Release Status: Open
Release Closed Date: Not reported

UST:

Name: SHELL OIL CO
Address: 740 N 3RD ST
City,State,Zip: GRAND HAVEN 49417
Facility Type: CLOSED
Facility ID: 00004316
Owner Name: SHELL OIL PRODUCTS CO
Owner Address: ATTN:R K WILLIAMS PO BOX 2099 TSP 1427
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77252-2099
Owner Contact: Not reported
Owner Phone: 7132413567
Contact: JIM SEWELL
Contact Phone: (708) 572-5569
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: 3
Capacity: 1400
Tank Status: Removed from Ground
Substance: Used Oil
Install Date: Not reported
Remove Date: 08/28/1991
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: 43.06923
Longitude: -86.22625

Name: SHELL OIL CO
Address: 740 N 3RD ST
City,State,Zip: GRAND HAVEN, MI 49417
Facility Type: Removed from Ground
Facility ID: 00004316

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Owner Name: SHELL OIL PRODUCTS CO
Owner Address: ATTN:R K WILLIAMS PO BOX 2099 TSP 1427
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77252-2099
Owner Contact: Not reported
Owner Phone: 7132413567
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: 1500
Tank Status: Removed from Ground
Substance: Heating Oil,Other(CONSUMPTIVE USE)
Install Date: 1960-04-07 00:00:00
Remove Date: 1992-03-23 00:00:00
Tank Number: UTK-107261-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Tank Construction: Asphalt Coated or Bare Steel
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

Name: SHELL OIL CO
Address: 740 N 3RD ST
City,State,Zip: GRAND HAVEN, MI 49417
Facility Type: Removed from Ground
Facility ID: 00004316
Owner Name: SHELL OIL PRODUCTS CO
Owner Address: ATTN:R K WILLIAMS PO BOX 2099 TSP 1427
Owner City: HOUSTON
Owner State: TX
Owner Zip: 77252-2099
Owner Contact: Not reported
Owner Phone: 7132413567
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

District: Not reported
Tank ID: 1
Capacity: 1500
Tank Status: Removed from Ground
Substance: Heating Oil,Other(CONSUMPTIVE USE)
Install Date: 1960-04-07 00:00:00
Remove Date: 1992-03-23 00:00:00
Tank Number: UTK-107259-15
Tank Details Compartments: Not reported
Tank Release Detection: Not reported
Pipe Release Detection: Not reported
Piping Material: Unknown
Piping Type: Not reported
Tank Construction: Asphalt Coated or Bare Steel
Impressed Device: Not reported
Latitude: Not reported
Longitude: Not reported

AUL:

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Status: Pending
Site Name: Shell Oil Distribution Facility
Property: On-Site
Land Use Restriction Type: RC
Program Type: Part 201
Program Support Assigned User: Not reported
Program Support Assigned Date: Not reported
Legal Description Of Property: Site Address
Based On The Deq Ref #: 11120117033
MDEQ Reference Number: RC-RRD-201-17-033
Property Or Description Restricted Area: Not reported
Lead Division: RRD
File Name Of Hyperlinked Legal Doc: Not reported
Mapped Polygons Area In Acres: Not reported
Mapped Polygons Area In Square Miles: Not reported
Date Data Entry Started: Not reported
Date Data Entry Finished: Not reported
Individual Or Staff Assoc With The Mapping: Not reported
Program Used To Map Restricted Features: Not reported
Date Legal Paperwork Stamped/Filed/Register Of Deeds: Not reported
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: 0
Groundwater Consumption Restrictions: 0
Groundwater Contact Restrictions: 0
Special Well Construction Requirements: 0
Special Building Restrictions: 0
Excavation And Soil Movement Restrictions: 0
Soil Movement Requirements: 0

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

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: 20170621 - Reference number was requested by Alision Bitel of AECOM - Nick Ekel
Map Comments: Not reported

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Status: Recorded
Site Name: Shell Oil Distribution Facility
Property: Shell Oil Distribution Facility
Land Use Restriction Type: RC
Program Type: Part 201
Program Support Assigned User: Nicholas Ekel
Program Support Assigned Date: 04/08/2013
Legal Description Of Property: Site Address
Based On The Deq Ref #: 11220102017
MDEQ Reference Number: RC-ERD-02-017
Property Or Description Restricted Area: Migrated
Lead Division: ERD
File Name Of Hyperlinked Legal Doc: U:\\\\KERMIT\\11220102017.PDF
Mapped Polygons Area In Acres: Not reported
Mapped Polygons Area In Square Miles: Not reported
Date Data Entry Started: 09/19/2013
Date Data Entry Finished: 09/19/2013
Individual Or Staff Assoc With The Mapping: Nicholas Ekel
Program Used To Map Restricted Features: ArcGIS 10.1
Date Legal Paperwork Stamped/Filed/Register Of Deeds: 05/17/2005
Commercial I Land Use Restriction: 0
Commercial Ii Land Use Restriction: 1
Commercial Iii Land Use Restriction: 1
Commercial Iv Land Use Restriction: 1
Industrial Land Use Restriction: 1
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: 1
Excavation And Soil Movement Restrictions: 0
Soil Movement Requirements: 1
There Is A Restriction On All Construction: 0
Monitoring Well Protected, No Tampering Or Removal: 0
There Is An Exposure Barrier In Place: 1
There Is A Health And Safety Plan: 0
There Is A Permanent Marker On The Site: 0

Comment: Request received by Brad Ermisch 20130919 - LRUR is mapped as a point in KERMIT due to the named streets in the deed do not currently exist - Nick Ekel
Map Comments: 20130408 - LRUR is NOT mapped in KERMIT - Nick Ekel 20130919 - LRUR is mapped in KERMIT as a point - (See Comments Tab) - Nick Ekel

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

INVENTORY:

Name: SHELL OIL CO
Address: 740 N 3RD ST
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Not reported
District: Grand Rapids
Data Source: Part 213
Latitude: 43.06924
Longitude: -86.22626

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.07099
Longitude: -86.22711

PART 201:

Facility ID: 70000164
Facility Status: Interim Response in progress
Source: Petroleum Bulk Stations & Term
SAM Score: 36
SAM Score Date: 11/30/2005
Township: 08N
Range: 16W
Section: 20
Quarter: NE
Quarter/Quarter: NE
Pollutants: Benzene; Ethylbenzene; Toluene; Xylenes

BEA:

Name: 740 NORTH 3RD STREET
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1934
District: Grand Rapids
Date Received: 10/04/2006
Submitter Name: Barrett Bruce Holdings LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Township: Not reported
Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: 740 NORTH 3RD STREET
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1935
District: Grand Rapids
Date Received: 10/04/2006
Submitter Name: Parkland Boat Slips, LLC
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

Name: 740 NORTH 3RD STREET
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: 1936
District: Grand Rapids
Date Received: 10/04/2006
Submitter Name: Parkland Property Management Inc
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: stringed
Division Assigned: ERD
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Work Unit: Not reported
Comments: Not reported
Organization: Not reported
Contact: Not reported
Contact Type: Not reported

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/04/2006
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 70000164
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200601935GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2006-10-05 11:51:28
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 Site ID 70000164 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.

Organization: Parkland Boat Slips, LLC
Contact: Jonathan Rooks
Contact Type: Submitter Contact

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/04/2006
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 70000164
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200601934GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2006-10-05 10:50:20
Date Completed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Township:	Grand Haven
Work Unit:	Grand Rapids
Comments:	Category A1 Site ID 70000164 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.
Organization:	Barrett Bruce Holdings LLC
Contact:	Michael Vorce
Contact Type:	Submitter Contact
Name:	SHELL OIL DISTRIBUTION FACILITY
Address:	740 NORTH 3RD STREET
City,State,Zip:	GRAND HAVEN, MI 49417
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	10/04/2006
Submitter Name:	Not reported
Petition Determination:	Not reported
Petition Disclosure:	Not reported
Category:	Not reported
Determination 20107A:	Not reported
Reviewer:	Not reported
Division Assigned:	Not reported
Location ID:	70000164
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200601936GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2006-10-05 12:05:44
Date Completed:	Not reported
Township:	Grand Haven
Work Unit:	Grand Rapids
Comments:	Category A1 Site ID 70000164 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.
Organization:	Parkland Property Management Inc
Contact:	Jonathan Rooks
Contact Type:	Submitter Contact
Name:	SHELL OIL DISTRIBUTION FACILITY
Address:	740 NORTH 3RD STREET
City,State,Zip:	GRAND HAVEN, MI 49417
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	06/27/2005
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:	70000164
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B200501635GR
Approval Status:	RRD Received

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

SHELL OIL CO (Continued)

U003102512

Workflow Status: Submitted
Date Submitted: 2005-06-27 11:22:02
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 70000164 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately.
Organization: City of Grand Haven
Contact: Patrick McGinnis
Contact Type: Submitter Contact

Name: SHELL OIL DISTRIBUTION FACILITY
Address: 740 NORTH 3RD STREET
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 06/27/2005
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: 70000164
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200501634GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2005-06-27 11:17:39
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 70000164 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: IRDC submitted and approved by the department
Organization: City of Grand Haven
Contact: Patyrick McGinnis
Contact Type: Submitter Contact

59
SE
1/2-1
0.862 mi.
4550 ft.

NATIONAL PRODUCTS DISPLAYS INC
725 TAYLOR AVE
GRAND HAVEN, MI 49417

MI PART 201 S104909591
MI INVENTORY N/A
MI BEA
MI WDS

Relative:
Higher
Actual:
609 ft.

PART 201:
Facility ID: 70000414
Facility Status: Inactive - no actions taken to address contamination
Source: Not reported
SAM Score: 18
SAM Score Date: 05/21/2007
Township: 8N
Range: 16W
Section: 28

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NATIONAL PRODUCTS DISPLAYS INC (Continued)

S104909591

Quarter: NW
Quarter/Quarter: SE
Pollutants: Benzo(a)pyrene; Fluoranthene; Phenanthrene; PCE; Zn

INVENTORY:

Name: 725 TAYLOR STREET
Address: 725 TAYLOR STREET
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.05247
Longitude: -86.2237

BEA:

Name: 725 TAYLOR STREET
Address: 725 TAYLOR STREET
City,State,Zip: GRAND HAVEN, MI
Secondary Address: Not reported
BEA Number: 24
District: Grand Rapids
Date Received: 11/08/1995
Submitter Name: IDI
Petition Determination: No Request
Petition Disclosure: 0
Category: S
Determination 20107A: No Request
Reviewer: monetd
Division Assigned: ERD
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

WDS:

Name: NATIONAL PRODUCTS DISPLAYS INC
Address: 725 TAYLOR AVE
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MID006022438
WMD Id: 394071
Site Specific Name: NATIONAL PRODUCTS DISPLAYS INC
Mailing Address: PO BOX 187
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

Map ID
Direction
Distance
Elevation

MAP FINDINGS

EDR ID Number
EPA ID Number

60	OTTAWA STEEL PRODUCTS AREA	MI AUL	S105144626
ESE	745 WOODLAWN	MI BROWNFIELDS	N/A
1/2-1	GRAND HAVEN, MI 49417	MI PART 201	
0.867 mi.		MI INVENTORY	
4577 ft.		MI BEA	
		MI WDS	

Relative:
Higher

Actual:
608 ft.

AUL:

Name:	OTTAWA STEEL PRODUCTS AREA
Address:	745 WOODLAWN
City,State,Zip:	GRAND HAVEN, MI 49417
Status:	Issued
Site Name:	Ottawa Steel Products Area
Property:	On-Site
Land Use Restriction Type:	Ordinance
Program Type:	Part 201
Program Support Assigned User:	Nicholas Ekel
Program Support Assigned Date:	01/25/2021
Legal Description Of Property:	Site Address
Based On The Deq Ref #:	14120121001
MDEQ Reference Number:	ORD-RRD-201-21-001
Property Or Description Restricted Area:	Not reported
Lead Division:	RRD
File Name Of Hyperlinked Legal Doc:	U:\\KERMIT\\14120121001.PDF
Mapped Polygons Area In Acres:	Not reported
Mapped Polygons Area In Square Miles:	Not reported
Date Data Entry Started:	Not reported
Date Data Entry Finished:	Not reported
Individual Or Staff Assoc With The Mapping:	Not reported
Program Used To Map Restricted Features:	Not reported
Date Legal Paperwork Stamped/Filed/Register Of Deeds:	11/17/2003
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:	0
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:	20210125 - Ordinance was sent in by Nancy Johnson of the EGLE-RRD Grand Rapids Office - Nick Ekel
Map Comments:	20210125 - LRUR is NOT mapped in KERMIT - Nick Ekel

BROWNFIELDS:

Facility ID:	Not reported
Region:	1
Status:	Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OTTAWA STEEL PRODUCTS AREA (Continued)

S105144626

Property Use: Not reported
BEA: No
Ernie Id Number: 70000043

PART 201:

Facility ID: 70000043
Facility Status: Evaluation conducted
Source: Misc Manufacturing Industries
SAM Score: 38
SAM Score Date: 06/23/2004
Township: 08N
Range: 16W
Section: 28
Quarter: NW
Quarter/Quarter: SW
Pollutants: Benzene; VC; cis-1,2 DCE; Waste oil

INVENTORY:

Name: 745 WOODLAWN AVENUE
Address: 745 WOODLAWN AVENUE
City,State,Zip: MI 49417
Bea Number: 201403820GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.0545
Longitude: -86.22224

Name: WOODLAWN AVENUE - VACANT PROPERTY
Address: WOODLAWN AVENUE - VACANT PROPERTY N OF WOODLAWN & W OF BEACON BLVD
City,State,Zip: MI 49417
Bea Number: 201604351GR
Township: Grand Haven
District: Grand Rapids
Data Source: BEA
Latitude: 43.0545
Longitude: -86.22224

Name: OTTAWA STEEL PRODUCTS AREA
Address: 745 WOODLAWN
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.0545
Longitude: -86.22224

BEA:

Name: OTTAWA STEEL PRODUCTS AREA
Address: 745 WOODLAWN
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 09/11/2014

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OTTAWA STEEL PRODUCTS AREA (Continued)

S105144626

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:	70000043
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B201403820GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2014-09-12 11:48:30
Date Completed:	Not reported
Township:	Grand Haven
Work Unit:	Grand Rapids
Comments:	Category A2 (Associated ID #s like ITS and Site ID go here.) REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and further follow up is needed, awaiting resources. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: The property located at 745 Woodlawn Avenue in Grand Haven is currently occupied by a screw machine manufacturing business. A 2014 BEA indicates that the new owner intends to continue screw machine manufacturing operations. A area
Organization:	Blue Agate LLC
Contact:	Kirk Perschbacher
Contact Type:	Submitter Contact
Name:	OTTAWA STEEL PRODUCTS AREA
Address:	745 WOODLAWN
City,State,Zip:	GRAND HAVEN, MI 49417
Secondary Address:	Not reported
BEA Number:	Not reported
District:	Not reported
Date Received:	05/03/2012
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:	70000043
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	B201203177GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2012-05-03 15:37:46
Date Completed:	Not reported
Township:	Grand Haven
Work Unit:	Grand Rapids
Comments:	Category A1 Associated with Ottawa Steel Products Site ID #7000043. 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: Parcel consists of .72 acres. It has a retail building, greenhouse, warehouse and parking lot on site. Roman Catholic Diocese of Grand Rapids

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OTTAWA STEEL PRODUCTS AREA (Continued)

S105144626

intends to level the area and create a parking lot on the property.

Vin

Organization: Roman Catholic Diocese of Grand Rapids
Contact: James Dixon
Contact Type: Submitter Contact

Name: OTTAWA STEEL PRODUCTS AREA
Address: 745 WOODLAWN
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 08/30/2016
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: 70000043
Submittal Type: Baseline Environmental Assessment
Submittal Number: B201604351GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2016-09-02 16:02:53
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. The BEA has identified groundwater contamination of VC at 190 ppb at 25TM - 30TM bgl above DW and GSI criteria. Cr in soils at 5,600 ppb and Se in soils at 820 ppb between 1TM - 4TM bgl above GSIP criteria. The intended use of the property will be a asphalt paved parking lot for an adjoining business. NOTE: It appears that the monitoring well in th

Organization: Con Dios LLC
Contact: Kirk Perschbacher
Contact Type: Submitter Contact

Name: OTTAWA STEEL PRODUCTS AREA
Address: 745 WOODLAWN
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 09/22/2003
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: 70000043
Submittal Type: Baseline Environmental Assessment

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OTTAWA STEEL PRODUCTS AREA (Continued)

S105144626

Submittal Number: B200301285GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2004-01-31 07:29:04
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A2 REVIEW CONCLUSION: BEA is entirely of previously identified concerns, and further follow up is needed, awaiting resources. FURTHER ASSESSMENT, NOTIFICATION, AND/OR MITIGATION ACTION TO BE TAKEN: source of the contamination has not been identified, area wide problem, appears to be associated with the Ottawa Steele investigation.
Organization: City of Grand Haven
Contact: Bryan Bench
Contact Type: Submitter Contact

WDS:

Name: MI DEPT/NATURAL RESOURCES AND ENVIRONMENT
Address: 745 WOODLAWN AVE
City,State,Zip: GRAND HAVEN, MI 49417
Site Id: MIK125127969
WMD Id: 439424
Site Specific Name: OTTAWA STEEL PRODUCTS
Mailing Address: 745 WOODLAWN AVE
Mailing City/State/Zip: 49417
Mailing County: OTTAWA

61
NE
1/2-1
0.911 mi.
4808 ft.

ADAMS ST. FACILITY - GRAND HAVEN
ADAMS & FOURTH STREETS
GRAND HAVEN, MI 49417

MI PART 201
MI INVENTORY
MI BEA
S105144629
N/A

Relative:
Lower
Actual:
590 ft.

PART 201:
Facility ID: 70000092
Facility Status: Interim Response in progress
Source: Sewerage Systems
SAM Score: 31
SAM Score Date: 12/05/2005
Township: 08N
Range: 16W
Section: 21
Quarter: NW
Quarter/Quarter: SW
Pollutants: CN; Pb; Phenanthrene; Metals

INVENTORY:

Name: ADAMS ST. FACILITY - GRAND HAVEN
Address: ADAMS & FOURTH STREETS
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06915
Longitude: -86.2244

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADAMS ST. FACILITY - GRAND HAVEN (Continued)

S105144629

BEA:

Name: ADAMS ST. FACILITY - GRAND HAVEN
Address: ADAMS & FOURTH STREETS
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 11/08/2006
Submitter Name: Not reported
Petition Determination: Not reported
Petition Disclosure: Not reported
Category: Not reported
Determination 20107A: Not reported
Reviewer: Not reported
Division Assigned: Not reported
Location ID: 70000092
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200601965GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2006-11-09 09:52:02
Date Completed: Not reported
Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 (Associated ID #s: Adams™ Street Property- Grand Haven 70000092; Former Grand Haven Waste Water Treatment Plant) 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: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. Low level impacts to soils include selenium 1.4 ppm and c
Organization: Grand Landing LLC
Contact: Don Knappe
Contact Type: Submitter Contact

Name: ADAMS ST. FACILITY - GRAND HAVEN
Address: ADAMS & FOURTH STREETS
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 07/02/2007
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: 70000092
Submittal Type: Baseline Environmental Assessment
Submittal Number: B200702112GR
Approval Status: RRD Received
Workflow Status: Submitted
Date Submitted: 2007-07-02 12:00:26
Date Completed: Not reported

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ADAMS ST. FACILITY - GRAND HAVEN (Continued)

S105144629

Township: Grand Haven
Work Unit: Grand Rapids
Comments: Category A1 Associated with Adams Street-City of Grand Haven # 70000092, Grand Landing-Waterfront development # 70000373) REVIEW
CONCLUSION: BEA is entirely of previously identified concerns, and concerns have already been dealt with appropriately. Soils contain PNA™s and metals including lead (878,000ppb), chromium (47,000ppb), cadmium (17,000ppb)
Organization: Adams Ave. Condominium, LLC
Contact: Nancy Taylor
Contact Type: Submitter Contact

62
NE
1/2-1
0.946 mi.
4993 ft.

OTTAWA COUNTY ROAD COMMISSION
616 6TH STREET/625 MONROE
GRAND HAVEN, MI 49417

MI PART 201 1003533625
MI INVENTORY N/A
MI BEA

Relative:
Lower

PART 201:

Actual:
588 ft.

Facility ID: 70000346
Facility Status: Interim Response conducted - No further activities anticipated
Source: General Government
SAM Score: 41
SAM Score Date: 03/17/2004
Township: 08N
Range: 16W
Section: 21
Quarter: NW
Quarter/Quarter: SW
Pollutants: Benzene; Cl; Ethylbenzene; Na; Toluene; VC; Xylenes; Metals; PNAs

INVENTORY:

Name: OTTAWA COUNTY ROAD COMMISSION
Address: 616 6TH STREET/625 MONROE
City,State,Zip: GRAND HAVEN, MI 49417
Bea Number: Not reported
Township: Grand Haven
District: Grand Rapids
Data Source: Part 201
Latitude: 43.06907
Longitude: -86.22007

BEA:

Name: OTTAWA COUNTY ROAD COMMISSION
Address: 616 6TH STREET/625 MONROE
City,State,Zip: GRAND HAVEN, MI 49417
Secondary Address: Not reported
BEA Number: Not reported
District: Not reported
Date Received: 10/19/2000
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

Map ID
Direction
Distance
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

OTTAWA COUNTY ROAD COMMISSION (Continued)

1003533625

Location ID:	70000346
Submittal Type:	Baseline Environmental Assessment
Submittal Number:	P200000786GR
Approval Status:	RRD Received
Workflow Status:	Submitted
Date Submitted:	2004-01-31 07:29:04
Date Completed:	Not reported
Township:	Grand Haven
Work Unit:	Grand Rapids
Comments:	Not reported
Organization:	City of Grand Haven
Contact:	Bryan Bench
Contact Type:	Submitter Contact

Count: 0 records.

ORPHAN SUMMARY

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

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

Date of Government Version: 07/29/2021	Source: EPA
Date Data Arrived at EDR: 08/04/2021	Telephone: N/A
Date Made Active in Reports: 08/31/2021	Last EDR Contact: 09/01/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

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

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

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

Date of Government Version: 07/29/2021	Source: EPA
Date Data Arrived at EDR: 08/04/2021	Telephone: N/A
Date Made Active in Reports: 08/31/2021	Last EDR Contact: 09/01/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/11/2021
	Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

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

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

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

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: N/A
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

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

Date of Government Version: 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: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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

Date of Government Version: 07/29/2021	Source: EPA
Date Data Arrived at EDR: 08/04/2021	Telephone: 800-424-9346
Date Made Active in Reports: 08/31/2021	Last EDR Contact: 09/01/2021
Number of Days to Update: 27	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021	Source: EPA
Date Data Arrived at EDR: 03/23/2021	Telephone: 800-424-9346
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/03/2022
	Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

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

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/03/2022
	Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

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

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/03/2022
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRA-SQG: RCRA - Small Quantity Generators

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

Date of Government Version: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/03/2022
	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: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 312-886-6186
Date Made Active in Reports: 05/19/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 57	Next Scheduled EDR Contact: 01/03/2022
	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: 05/10/2021	Source: Department of the Navy
Date Data Arrived at EDR: 05/13/2021	Telephone: 843-820-7326
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

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

Date of Government Version: 05/17/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 703-603-0695
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/23/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/06/2021
	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: 05/17/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/21/2021	Telephone: 703-603-0695
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/23/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 12/06/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal ERNS list

ERNS: Emergency Response Notification System

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

Date of Government Version: 06/14/2021

Date Data Arrived at EDR: 06/17/2021

Date Made Active in Reports: 08/17/2021

Number of Days to Update: 61

Source: National Response Center, United States Coast Guard

Telephone: 202-267-2180

Last EDR Contact: 09/21/2021

Next Scheduled EDR Contact: 01/03/2022

Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

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

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

Date of Government Version: N/A

Date Data Arrived at EDR: 10/31/2013

Date Made Active in Reports: 11/20/2013

Number of Days to Update: 20

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-284-5103

Last EDR Contact: 07/13/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: No Update Planned

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

SWF/LF: Solid Waste Facilities Database

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

Date of Government Version: 06/21/2021

Date Data Arrived at EDR: 06/21/2021

Date Made Active in Reports: 09/14/2021

Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-335-4035

Last EDR Contact: 09/21/2021

Next Scheduled EDR Contact: 01/03/2022

Data Release Frequency: Semi-Annually

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank Sites

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

Date of Government Version: 05/06/2021

Date Data Arrived at EDR: 05/12/2021

Date Made Active in Reports: 07/02/2021

Number of Days to Update: 51

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-9837

Last EDR Contact: 07/01/2021

Next Scheduled EDR Contact: 11/22/2021

Data Release Frequency: Annually

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 05/27/2021

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 8

Telephone: 303-312-6271

Last EDR Contact: 06/11/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/27/2021
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 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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

Date of Government Version: 06/01/2021
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 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/17/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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

Date of Government Version: 05/17/2021
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 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
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: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

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

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 06/11/2021
Date Made Active in Reports: 09/07/2021
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 04/06/2021
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: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Varies

State and tribal registered storage tank lists

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FEMA UST: Underground Storage Tank Listing

A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021	Source: FEMA
Date Data Arrived at EDR: 02/17/2021	Telephone: 202-646-5797
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 06/29/2021
Number of Days to Update: 33	Next Scheduled EDR Contact: 10/18/2021
	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: 04/26/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 05/11/2021	Telephone: 517-373-1820
Date Made Active in Reports: 07/29/2021	Last EDR Contact: 08/13/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: Annually

UST 2: Underground Storage Tank Listing

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

Date of Government Version: 04/09/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 04/16/2021	Telephone: 517-373-1820
Date Made Active in Reports: 07/07/2021	Last EDR Contact: 07/21/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 10/25/2021
	Data Release Frequency: Varies

AST: Aboveground Tanks

Registered Aboveground Storage Tanks.

Date of Government Version: 05/25/2021	Source: Department of Licensing & Regulatory Affairs
Date Data Arrived at EDR: 05/26/2021	Telephone: 517-373-1820
Date Made Active in Reports: 08/11/2021	Last EDR Contact: 08/05/2021
Number of Days to Update: 77	Next Scheduled EDR Contact: 11/22/2021
	Data Release Frequency: No Update Planned

INDIAN UST R1: Underground Storage Tanks on Indian Land

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

Date of Government Version: 04/28/2021	Source: EPA, Region 1
Date Data Arrived at EDR: 06/11/2021	Telephone: 617-918-1313
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	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	Source: EPA Region 5
Date Data Arrived at EDR: 06/11/2021	Telephone: 312-886-6136
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/01/2021	Source: EPA Region 7
Date Data Arrived at EDR: 06/11/2021	Telephone: 913-551-7003
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/27/2021	Source: EPA Region 8
Date Data Arrived at EDR: 06/11/2021	Telephone: 303-312-6137
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

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

Date of Government Version: 05/27/2021	Source: EPA Region 9
Date Data Arrived at EDR: 06/11/2021	Telephone: 415-972-3368
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	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	Source: EPA Region 4
Date Data Arrived at EDR: 06/22/2021	Telephone: 404-562-9424
Date Made Active in Reports: 09/20/2021	Last EDR Contact: 06/17/2021
Number of Days to Update: 90	Next Scheduled EDR Contact: 11/01/2021
	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: 05/17/2021	Source: EPA Region 6
Date Data Arrived at EDR: 06/11/2021	Telephone: 214-665-7591
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	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: 04/27/2021	Source: EPA Region 10
Date Data Arrived at EDR: 06/11/2021	Telephone: 206-553-2857
Date Made Active in Reports: 09/07/2021	Last EDR Contact: 06/11/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/01/2021
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

State and tribal institutional control / engineering control registries

AUL: Engineering and Institutional Controls

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

Date of Government Version: 05/21/2021

Date Data Arrived at EDR: 05/24/2021

Date Made Active in Reports: 08/11/2021

Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy

Telephone: 517-373-4828

Last EDR Contact: 08/17/2021

Next Scheduled EDR Contact: 12/06/2021

Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Listing

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

Date of Government Version: 03/20/2008

Date Data Arrived at EDR: 04/22/2008

Date Made Active in Reports: 05/19/2008

Number of Days to Update: 27

Source: EPA, Region 7

Telephone: 913-551-7365

Last EDR Contact: 07/08/2021

Next Scheduled EDR Contact: 07/20/2009

Data Release Frequency: Varies

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015

Date Data Arrived at EDR: 09/29/2015

Date Made Active in Reports: 02/18/2016

Number of Days to Update: 142

Source: EPA, Region 1

Telephone: 617-918-1102

Last EDR Contact: 09/15/2021

Next Scheduled EDR Contact: 01/03/2022

Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Brownfields and USTfield Site Database

All state funded Part 201 and 213 sites, as well as LUST sites that have been redeveloped by private entities using the BEA process. Be aware that this is not a list of all of the potential brownfield sites in Michigan.

Date of Government Version: 01/15/2016

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: 07/14/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

BROWNFIELDS 2: Brownfields Building and Land Site Locations

A listing of brownfield building and land site locations. The listing is a collaborative effort of Michigan Economic Development Corporation, Michigan Economic Developers Association, Detroit Edison, Detroit Area Commercial Board of Realtors

Date of Government Version: 04/19/2021

Date Data Arrived at EDR: 04/21/2021

Date Made Active in Reports: 07/09/2021

Number of Days to Update: 79

Source: Economic Development Corporation

Telephone: 888-522-0103

Last EDR Contact: 07/19/2021

Next Scheduled EDR Contact: 11/01/2021

Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/10/2021
Date Data Arrived at EDR: 06/10/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 68

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

HIST LF: Inactive Solid Waste Facilities

The database contains historical information and is no longer updated.

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

Source: 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

SWRCY: Recycling Facilities

A listing of recycling center locations.

Date of Government Version: 06/08/2021
Date Data Arrived at EDR: 06/09/2021
Date Made Active in Reports: 09/01/2021
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-5719
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Varies

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

Location of open dumps on Indian land.

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

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
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: 07/13/2021
Next Scheduled EDR Contact: 11/01/2021
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 Services, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 07/20/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

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

Date of Government Version: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: No Update Planned

PART 201: Part 201 Site List

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

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

Source: Department of 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

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: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 84

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-5136
Last EDR Contact: 07/22/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Lab Listing

A listing of clandestine drug lab locations.

Date of Government Version: 01/04/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 79

Source: Department of Community Health
Telephone: 517-373-3740
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DEL PART 201: Delisted List of Contaminated Sites

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

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

Date of Government Version: 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: 05/18/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 77

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contaminated Sites Listing

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

Date of Government Version: 05/05/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/29/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes & Energy
Telephone: 517-284-9278
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
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: 10/11/2019
Date Data Arrived at EDR: 10/17/2019
Date Made Active in Reports: 12/11/2019
Number of Days to Update: 55

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-7603
Last EDR Contact: 07/16/2021
Next Scheduled EDR Contact: 10/25/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 09/13/2021
Next Scheduled EDR Contact: 10/04/2021
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: 03/28/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/08/2021
Number of Days to Update: 79

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-8427
Last EDR Contact: 07/26/2021
Next Scheduled EDR Contact: 11/01/2021
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: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 312-886-6186
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 05/04/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 85

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

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

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

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 07/13/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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	Source: U.S. Geological Survey
Date Data Arrived at EDR: 04/11/2018	Telephone: 888-275-8747
Date Made Active in Reports: 11/06/2019	Last EDR Contact: 07/09/2021
Number of Days to Update: 574	Next Scheduled EDR Contact: 10/18/2021
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 02/03/2017	Telephone: 615-532-8599
Date Made Active in Reports: 04/07/2017	Last EDR Contact: 08/06/2021
Number of Days to Update: 63	Next Scheduled EDR Contact: 11/22/2021
	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: 03/22/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/23/2021	Telephone: 202-566-1917
Date Made Active in Reports: 06/17/2021	Last EDR Contact: 09/15/2021
Number of Days to Update: 86	Next Scheduled EDR Contact: 01/03/2022
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/21/2014	Telephone: 617-520-3000
Date Made Active in Reports: 06/17/2014	Last EDR Contact: 07/26/2021
Number of Days to Update: 88	Next Scheduled EDR Contact: 11/15/2021
	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	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/08/2018	Telephone: 703-308-4044
Date Made Active in Reports: 07/20/2018	Last EDR Contact: 08/06/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 11/15/2021
	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: 09/17/2021
Next Scheduled EDR Contact: 12/27/2021
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: 08/17/2021
Next Scheduled EDR Contact: 11/29/2021
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: 04/19/2021
Date Data Arrived at EDR: 04/20/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 87

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 07/19/2021
Next Scheduled EDR Contact: 11/01/2021
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: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 12/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/07/2021	Source: Environmental Protection Agency
Date Data Arrived at EDR: 05/13/2021	Telephone: 202-564-8600
Date Made Active in Reports: 08/03/2021	Last EDR Contact: 07/14/2021
Number of Days to Update: 82	Next Scheduled EDR Contact: 11/01/2021
	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	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 06/02/2008
Number of Days to Update: 35	Next Scheduled EDR Contact: 09/01/2008
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020	Source: EPA
Date Data Arrived at EDR: 01/14/2021	Telephone: 202-564-6023
Date Made Active in Reports: 03/05/2021	Last EDR Contact: 09/01/2021
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/15/2021
	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: 11/19/2020	Source: EPA
Date Data Arrived at EDR: 01/08/2021	Telephone: 202-566-0500
Date Made Active in Reports: 03/22/2021	Last EDR Contact: 07/09/2021
Number of Days to Update: 73	Next Scheduled EDR Contact: 10/18/2021
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

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

Date of Government Version: 11/18/2016	Source: Environmental Protection Agency
Date Data Arrived at EDR: 11/23/2016	Telephone: 202-564-2501
Date Made Active in Reports: 02/10/2017	Last EDR Contact: 06/29/2021
Number of Days to Update: 79	Next Scheduled EDR Contact: 10/18/2021
	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: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 09/03/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/06/2021
Next Scheduled EDR Contact: 11/15/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
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 Transportation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80

Source: Department of Transportation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/08/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees

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

Date of Government Version: 06/30/2021
Date Data Arrived at EDR: 07/14/2021
Date Made Active in Reports: 07/16/2021
Number of Days to Update: 2

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
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: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
Data Release Frequency: Biennially

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 07/02/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 07/23/2021
Next Scheduled EDR Contact: 11/15/2021
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: 08/12/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 07/29/2021
Date Data Arrived at EDR: 08/04/2021
Date Made Active in Reports: 08/31/2021
Number of Days to Update: 27

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 09/01/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

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

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

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

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

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 05/03/2021
Date Data Arrived at EDR: 05/25/2021
Date Made Active in Reports: 08/11/2021
Number of Days to Update: 78

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 08/24/2021
Next Scheduled EDR Contact: 12/06/2021
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: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admini
Telephone: 202-693-9424
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/13/2021
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

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

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

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/15/2021
Date Data Arrived at EDR: 06/16/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 62

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 09/14/2021
Next Scheduled EDR Contact: 12/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and TMpointersTM 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: 05/05/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 08/17/2021
Number of Days to Update: 91

Source: EPA
Telephone: (312) 353-2000
Last EDR Contact: 08/31/2021
Next Scheduled EDR Contact: 12/13/2021
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: 04/04/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 80

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 07/01/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
Data Release Frequency: Varies

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
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: 05/14/2021
Date Data Arrived at EDR: 05/14/2021
Date Made Active in Reports: 08/03/2021
Number of Days to Update: 81

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 08/13/2021
Next Scheduled EDR Contact: 11/29/2021
Data Release Frequency: Quarterly

AIRS: Permit and Emissions Inventory Data

Permit and emissions inventory data.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/14/2021
Date Data Arrived at EDR: 06/15/2021
Date Made Active in Reports: 09/09/2021
Number of Days to Update: 86

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-7074
Last EDR Contact: 09/09/2021
Next Scheduled EDR Contact: 12/27/2021
Data Release Frequency: Annually

ASBESTOS: Asbestos Notification Listing Asbestos

Date of Government Version: 05/31/2021
Date Data Arrived at EDR: 06/03/2021
Date Made Active in Reports: 06/24/2021
Number of Days to Update: 21

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-284-7699
Last EDR Contact: 08/03/2021
Next Scheduled EDR Contact: 11/08/2021
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: 05/11/2021
Date Data Arrived at EDR: 05/13/2021
Date Made Active in Reports: 08/10/2021
Number of Days to Update: 89

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-373-9541
Last EDR Contact: 08/05/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/07/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

DRYCLEANERS: Drycleaning Establishments

A listing of drycleaning facilities in Michigan.

Date of Government Version: 01/07/2021
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 78

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4586
Last EDR Contact: 07/15/2021
Next Scheduled EDR Contact: 10/24/2021
Data Release Frequency: Quarterly

Financial Assurance 1: Financial Assurance Information Listing

Financial assurance information.

Date of Government Version: 06/29/2021
Date Data Arrived at EDR: 06/30/2021
Date Made Active in Reports: 09/23/2021
Number of Days to Update: 85

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-6610
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

FINANCIAL ASSURANCE 3: Financial Assurance Information Listing

Financial assurance information for underground storage tank facilities.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/13/2021
Date Made Active in Reports: 06/25/2021
Number of Days to Update: 73

Source: Department of Licensing & Regulatory Affairs
Telephone: 517-335-7279
Last EDR Contact: 06/30/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/17/2021
Date Data Arrived at EDR: 06/17/2021
Date Made Active in Reports: 06/22/2021
Number of Days to Update: 5

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-335-4034
Last EDR Contact: 09/15/2021
Next Scheduled EDR Contact: 01/03/2022
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: 08/25/2021
Next Scheduled EDR Contact: 12/13/2021
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: 10/22/2020
Date Data Arrived at EDR: 12/23/2020
Date Made Active in Reports: 03/16/2021
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1300
Last EDR Contact: 07/02/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

UIC: Underground Injection Wells Database

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

Date of Government Version: 07/14/2021
Date Data Arrived at EDR: 07/19/2021
Date Made Active in Reports: 09/03/2021
Number of Days to Update: 46

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-241-1515
Last EDR Contact: 07/14/2021
Next Scheduled EDR Contact: 11/01/2021
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: 03/30/2021
Date Data Arrived at EDR: 03/31/2021
Date Made Active in Reports: 06/22/2021
Number of Days to Update: 83

Source: Department of Environment, Great Lakes, and Energy
Telephone: 517-284-6562
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
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: 08/26/2021
Next Scheduled EDR Contact: 12/06/2021
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: 06/30/2021
Next Scheduled EDR Contact: 10/18/2021
Data Release Frequency: Semi-Annually

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

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

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR™s review was limited to those categories of sources that might, in EDR™s opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR™s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR™s review was limited to those categories of sources that might, in EDR™s opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR™s HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

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

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

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

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

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

Source: Department of Environment, Great Lakes, and Energy
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LF: Recovered Government Archive Solid Waste Facilities List

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

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

Source: Department of Environment, Great Lakes, and Energy
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

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

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

Source: Department of Environment, Great Lakes, and Energy
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

OTHER DATABASE(S)

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

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

CT MANIFEST: Hazardous Waste Manifest Data

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

Date of Government Version: 03/24/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 07/28/2021
Number of Days to Update: 78

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 08/10/2021
Next Scheduled EDR Contact: 11/22/2021
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: 07/09/2021
Next Scheduled EDR Contact: 10/18/2021
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: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 07/29/2021
Next Scheduled EDR Contact: 11/08/2021
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: 07/07/2021
Next Scheduled EDR Contact: 10/25/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 08/11/2021
Next Scheduled EDR Contact: 11/29/2021
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: 09/01/2021
Next Scheduled EDR Contact: 12/20/2021
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

FORMER GRAND HAVEN BLP DIESEL PLANT
518 S HARBOR DR
GRAND HAVEN, MI 49417

TARGET PROPERTY COORDINATES

Latitude (North):	43.059912 - 43. 3 TM 35.68 TM TM
Longitude (West):	86.238082 - 86. 14 TM 17.10 TM TM
Universal Transverse Mercator:	Zone 16
UTM X (Meters):	562044.2
UTM Y (Meters):	4767534.5
Elevation:	599 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	6065996 GRAND HAVEN, MI
Version Date:	2014
West Map:	6066038 GRAND HAVEN OE W, MI
Version Date:	2014

EDRTMs 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).

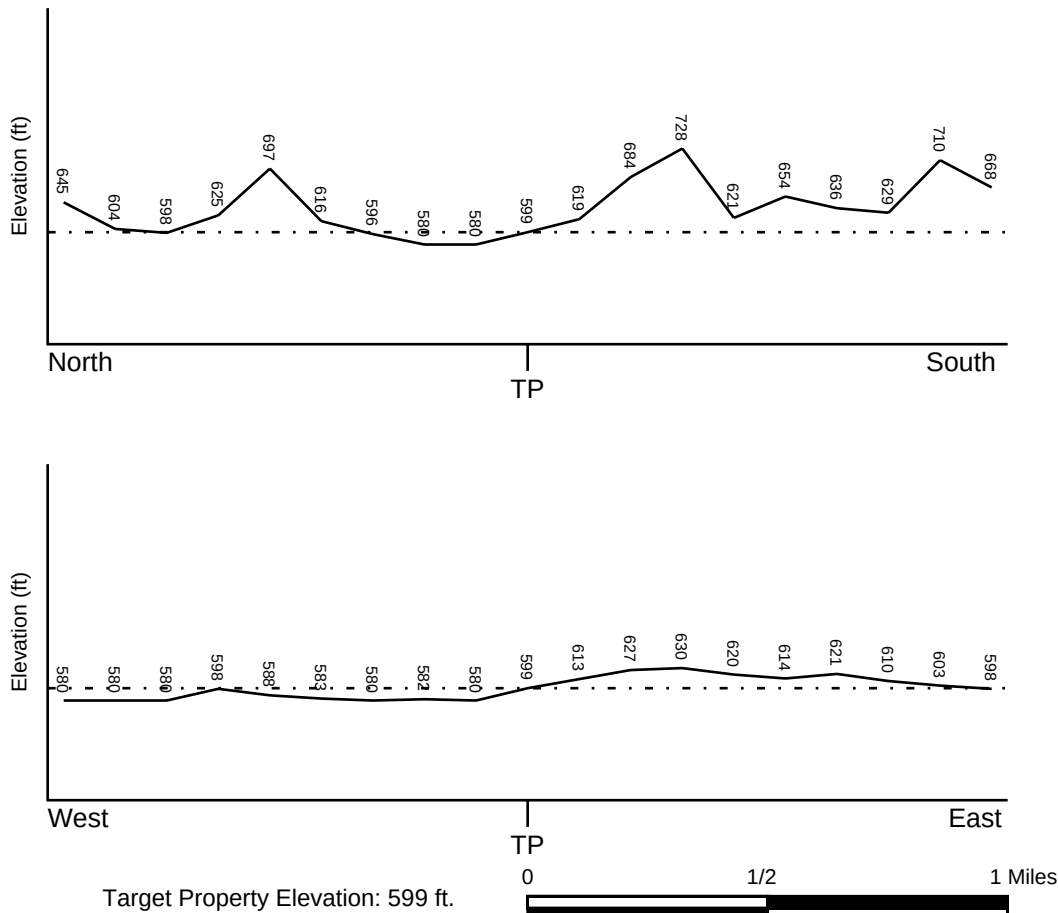
TOPOGRAPHIC INFORMATION

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 NNW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

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

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

FEMA FLOOD ZONE

<u>Flood Plain Panel at Target Property</u>	<u>FEMA Source Type</u>
26139C0086E	FEMA FIRM Flood data
<u>Additional Panels in search area:</u>	<u>FEMA Source Type</u>
26139C0079E	FEMA FIRM Flood data
26139C0078E	FEMA FIRM Flood data
26139C0059E	FEMA FIRM Flood data
26139C0087E	FEMA FIRM Flood data
26139C0067E	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

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

HYDROGEOLOGIC INFORMATION

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

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

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

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

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

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

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

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

ROCK STRATIGRAPHIC UNIT

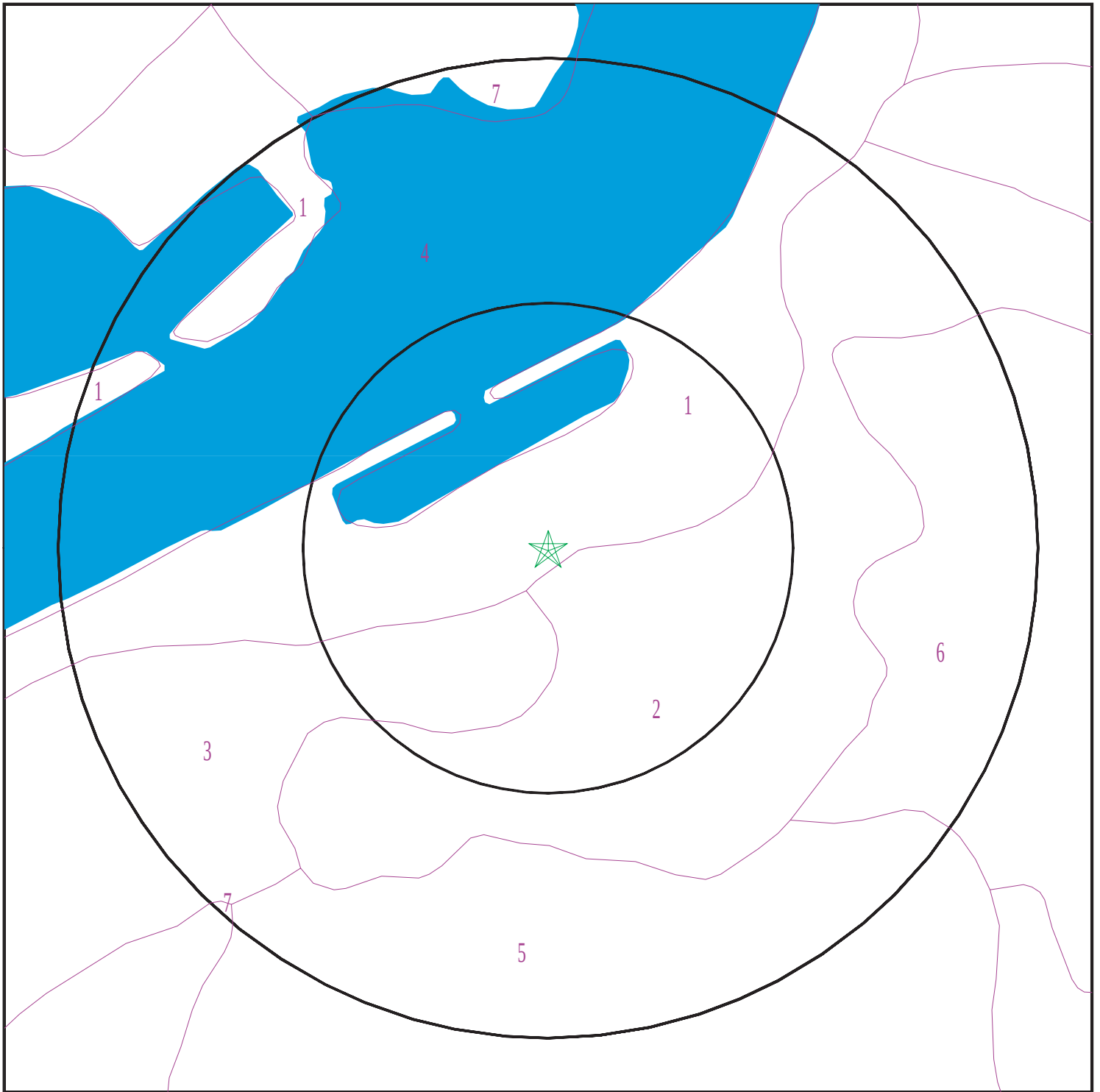
Era:	Paleozoic
System:	Mississippian
Series:	Osagean and Kinderhookian Series
Code:	M1 (decoded above as Era, System & Series)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

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

SSURGO SOIL MAP - 6676520.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Former Grand Haven BLP Diesel Plant
ADDRESS: 518 S Harbor Dr
Grand Haven MI 49417
LAT/LONG: 43.059912 / 86.238082

CLIENT: Fishbeck, Thompson, Carr & Huber
CONTACT: Ariane Savoy
INQUIRY #: 6676520.2s
DATE: September 24, 2021 3:10 pm

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture™s (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Made land

Soil Surface Texture:
Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: Deer Park

Soil Surface Texture: sand

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	0 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	18 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 3

Soil Component Name: Deer Park

Soil Surface Texture: sand

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity, micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	0 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	18 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 4

Soil Component Name: Water

Soil Surface Texture: sand

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

Soil Drainage Class:
Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: Rubicon

Soil Surface Texture: sand

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

Soil Drainage Class: Excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity, micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	7 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.6
2	7 inches	29 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.6
3	29 inches	35 inches	sand	Granular materials (35 pct. or less passing No. 200), Fine Sand.	COARSE-GRAINED SOILS, Sands, Clean Sands, Poorly graded sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 6.5 Min: 5.6

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 6

Soil Component Name: Deer Park

Soil Surface Texture: sand

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

Soil Drainage Class: Well drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Low

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Saturated hydraulic conductivity, micro m/sec	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	0 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
2	0 inches	18 inches	fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6
3	18 inches	59 inches	sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.3 Min: 5.6

Soil Map ID: 7

Soil Component Name: Blown-out land

Soil Surface Texture: sand

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

Soil Drainage Class:

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Unknown

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

No Layer Information available.

LOCAL / REGIONAL WATER AGENCY RECORDS

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

WELL SEARCH DISTANCE INFORMATION

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

FEDERAL USGS WELL INFORMATION

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

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	MI0002750	1/2 - 1 Mile ENE

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

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	MI4000000599339	1/8 - 1/4 Mile NE
A3	MI4000000599050	1/2 - 1 Mile NE
A4	MI4000000599049	1/2 - 1 Mile NE

PHYSICAL SETTING SOURCE MAP - 6676520.2s



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

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

SITE NAME: Former Grand Haven BLP Diesel Plant
 ADDRESS: 518 S Harbor Dr
 Grand Haven MI 49417
 LAT/LONG: 43.059912 / 86.238082

CLIENT: Fishbeck, Thompson, Carr & Huber
 CONTACT: Ariane Savoy
 INQUIRY #: 6676520.2s
 DATE: September 24, 2021 3:10 pm

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NE
1/8 - 1/4 Mile
Higher

MI WELLS MI4000000599339

Well ID:	70000009941	Permit #:	13-627
Owner:	Daniel Dexter	Well Depth:	63
Well Type:	Irrigation	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Well Supply Serial #:	Not Reported	Well #:	Not Reported
Driller ID:	70-2466	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	2013-09-10 00:00:00
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Case Diameter (in):	4	Casing Depth (ft):	58
Screen Start Depth:	58	Screen End Depth:	63
Static Water Level:	43	Flowing:	N
Test Drawdown Depth:	43	Test Hours:	1
Test Water Flow Rate:	50	Test Method:	Plunger
Well Grouted:	Y	Elevation:	0

2
ENE
1/2 - 1 Mile
Higher

FRDS PWS MI0002750

Epa region:	05	State:	MI
Pwsid:	MI0002750	Pwsname:	GRAND HAVEN
Cityserved:	Not Reported	Stateserved:	MI
Zipsserved:	Not Reported	Fipscounty:	26139
Status:	Active	Retpopsrvt:	11268
Pwssvconn:	4836	Psource longname:	Purch_surface_water
Pwstype:	CWS	Owner:	Local_Govt
Contact:	MCGINNIS, PAT	Contactorgname:	MCGINNIS, PAT
Contactphone:	616-847-4888	Contactaddress1:	519 WASHINGTON AVE.
Contactaddress2:	Not Reported	Contactcity:	GRAND HAVEN
Contactstate:	MI	Contactzip:	49417
Pwsactivitycode:	A		
PWS ID:	MI0002750	PWS name:	GRAND HAVEN
Address:	519 WASHINGTON ST.	Care of:	GRAND HAVEN WATER DEPARTMENT
City:	GRAND HAVEN	State:	MI
Zip:	49417	Owner:	GRAND HAVEN
Source code:	Surface water	Population:	11951
PWS ID:	MI0002750	PWS type:	Not Reported
PWS name:	Not Reported	PWS address:	Not Reported
PWS city:	Not Reported	PWS state:	Not Reported
PWS zip:	Not Reported	County:	OTTAWA
Source:	Surface water	Treatment Objective:	DISINFECTION
Process:	GASEOUS CHLORINATION, POST		
Population:	11951		
County:	OTTAWA	Source:	Surface water
Treatment Objective:	SOFTENING (HARDNESS REMOVAL)	Population:	11951
Process:	LIME - SODA ASH ADDITION		
County:	OTTAWA	Source:	Surface water
Treatment Objective:	Z	Process:	FLUORIDATION

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Population:	11951		
PWS ID:	MI0002750	Activity status:	Active
Date system activated:	Not Reported	Date system deactivated:	Not Reported
Retail population:	00012000	System name:	GRAND HAVEN
System address:	GRAND HAVEN WATER DEPARTMENT		
System address:	519 WASHINGTON ST.	System city:	GRAND HAVEN
System state:	MI	System zip:	49417
Population served:	10,001 - 50,000 Persons	Treatment:	Treated
Latitude:	430347	Longitude:	0861341

A3
NE
1/2 - 1 Mile
Lower

MI WELLS MI4000000599050

Well ID:	70000009584	Permit #:	12-135
Owner:	Grand Haven Yacht Club	Well Depth:	21
Well Type:	Irrigation	Other Type Info:	Not Reported
Well Status:	Active	Other Status Info:	Not Reported
Well Supply Serial #:	Not Reported	Well #:	Not Reported
Driller ID:	70-2466	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	2012-08-15 00:00:00
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Case Diameter (in):	4	Casing Depth (ft):	16
Screen Start Depth:	16	Screen End Depth:	21
Static Water Level:	6	Flowing:	N
Test Drawdown Depth:	6	Test Hours:	1
Test Water Flow Rate:	40	Test Method:	Plunger
Well Grouted:	Y	Elevation:	0

A4
NE
1/2 - 1 Mile
Lower

MI WELLS MI4000000599049

Well ID:	70000009583	Permit #:	12-135
Owner:	Grand Haven Yacht Club	Well Depth:	50
Well Type:	Test Well	Other Type Info:	Not Reported
Well Status:	Plugged/Abandoned	Other Status Info:	Not Reported
Well Supply Serial #:	Not Reported	Well #:	Not Reported
Driller ID:	70-2466	Drill Method:	Cable Tool
Other Method Info:	Not Reported	Construction Date:	2012-07-25 00:00:00
Casing Type:	Steel-Galvanized	Other Casing Info:	Not Reported
Case Diameter (in):	4	Casing Depth (ft):	50
Screen Start Depth:	Not Reported	Screen End Depth:	Not Reported
Static Water Level:	0	Flowing:	N
Test Drawdown Depth:	0	Test Hours:	0
Test Water Flow Rate:	0	Test Method:	Not Reported
Well Grouted:	N	Elevation:	0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

State Database: MI Radon

Radon Test Results

Zipcode	Test Date	LT Sign	Result
49417	1/18/1999		1.5
49417	12/18/1998		1.5
49417	10/30/1998		1.5
49417	10/29/1998		1.5
49417	1/11/1999		1.5
49417	3/19/2007		1.6
49417	1/22/2000		1.6
49417	5/23/2003		4.1
49417	5/19/2005		4.0
49417	6/11/2001		4.6
49417	1/11/1999		4.3
49417	1/24/2007		1.9
49417	3/30/2006		1.9
49417	11/19/1997		1.9
49417	12/18/1998		1.9
49417	11/5/1998		1.9
49417	10/29/1998		1.9
49417	10/31/1998		1.8
49417	1/21/2000		1.9
49417	1/23/2001		1.9
49417	2/12/2000		1.9
49417	3/21/2009		1.9
49417	4/7/1994		1.8
49417	4/25/2000		1.8
49417	11/3/1997		1.7
49417	2/8/2007		1.8
49417	1/25/2001		1.7
49417	12/18/1998		1.7
49417	4/21/1997		1.6
49417	12/7/1998		1.6
49417	2/15/2007		1.5
49417	6/26/2006		1.5
49417	6/3/2006		1.5
49417	3/6/2003		1.4
49417	10/31/2005		1.4
49417	11/1/2005		1.4
49417	11/21/2005		1.4
49417	4/4/1994		1.5
49417	1/22/2010		1.5
49417	4/20/1998		1.4
49417	1/18/1999		1.4
49417	4/8/1994		1.4
49417	3/26/1994		1.4
49417	7/6/2009		1.4
49417	3/19/2009		1.4
49417	3/24/2006		1.4
49417			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	5/15/2007		1.4
49417	1/23/2006		1.3
49417	3/23/2006		1.3
49417	6/8/2007		1.3
49417	12/18/1998		1.3
49417	4/20/2004		1.3
49417	1/29/2010		1.3
49417	1/8/1999		1.2
49417	3/12/1999		1.2
49417	1/21/1999		1.2
49417	3/12/1999		1.2
49417	11/5/1998		1.2
49417	11/6/1998		1.2
49417	12/2/1997		1.2
49417	3/23/2007		1.3
49417	2/1/2000		1.3
49417	7/20/2001		1.3
49417	4/4/2000		1.3
49417	3/5/2007		1.2
49417	11/2/2007		1.2
49417	2/22/2000		1.2
49417	11/20/1998		1.1
49417	11/2/1998		1.1
49417	11/30/1998		1.1
49417	11/30/1998		1.1
49417	6/26/1998		1.1
49417	11/20/1998		1.1
49417	10/31/2005		1.1
49417	11/23/1998		1.1
49417	2/16/2008		1.1
49417	1/12/2007		1.1
49417	2/24/2006		1.1
49417	10/30/1998		1.0
49417	1/7/2002		1.0
49417	6/16/2003		1.0
49417	7/25/2009		1.0
49417	2/4/2006		1.0
49417	1/25/2007		1.0
49417	2/23/2006		1.0
49417	3/19/2007		1.0
49417	11/24/2007		1.0
49417	4/1/2006	<	0.3
49417	12/10/2005	<	0.3
49417	11/29/2005	<	0.3
49417	11/4/2005	<	0.3
49417	11/14/2005	<	0.3
49417	12/13/2002		0.5
49417	10/29/1998	<	0.3
49417	2/3/2006	<	0.3
49417	10/25/2006	<	0.3
49417	7/17/1995	<	0.3
49417	11/2/2005	<	0.3
49417	11/4/2005	<	0.3
49417	10/31/2005	<	0.3
49417	10/29/2005	<	0.3
49417	2/2/2006		0.5
49417			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	2/8/2007		0.5
49417	5/6/1996	<	0.3
49417	3/6/2006		0.5
49417	6/1/2004	<	0.3
49417	3/17/2008		0.5
49417	3/21/2008		0.5
49417	8/31/2001	<	0.3
49417	1/29/2007	<	0.3
49417	1/29/2007	<	0.3
49417	6/21/2007		0.5
49417	1/22/2005	<	0.3
49417	2/28/2006	<	0.3
49417	7/10/2006	<	0.3
49417	3/6/2001		0.5
49417	4/7/1994		0.5
49417	3/10/1995		0.5
49417	5/7/1994		0.5
49417	3/28/1994		0.5
49417	4/22/1994		0.5
49417	10/21/2002	<	0.3
49417	10/17/2002	<	0.3
49417	12/24/2008	<	0.3
49417	1/21/2000		0.5
49417	9/25/2008	<	0.3
49417	12/11/2009		0.5
49417	4/18/2009		0.5
49417	3/17/2003	<	0.3
49417	3/17/2003	<	0.3
49417	7/5/2008	<	0.3
49417	12/11/2007	<	0.3
49417	7/17/2008	<	0.3
49417	7/3/2008	<	0.3
49417	11/3/2003	<	0.3
49417	3/25/2005	<	0.3
49417	5/15/2008	<	0.3
49417	1/17/2008	<	0.3
49417	10/26/1998	<	0.3
49417	1/5/2002	<	0.3
49417	1/31/2008	<	0.3
49417	11/23/1998	<	0.3
49417	12/4/2006	<	0.3
49417	11/23/1998	<	0.3
49417	4/30/2007	<	0.3
49417	2/26/2004	<	0.3
49417	11/25/1998		0.8
49417	10/19/2002		0.5
49417	1/25/1999		0.5
49417	9/23/2003		0.5
49417	2/28/2009		1.0
49417	2/25/1999		0.8
49417	2/12/1999		0.8
49417	1/30/1999		0.9
49417	11/26/2001		0.6
49417	2/18/1999		0.9
49417	4/9/2002		0.9
49417	11/8/2004		0.6
49417			

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

RADON

AREA RADON INFORMATION

	6/22/2006	0.7
49417	5/22/2006	0.8
49417	2/15/2007	0.8
49417	7/17/2006	0.8
49417	2/15/2007	0.8
49417	6/7/2004	0.9
49417	7/19/2004	0.9
49417	6/8/2007	0.6
49417	11/15/2007	0.7
49417	5/10/2007	0.8
49417	3/3/2007	0.7
49417	10/29/2005	0.9
49417	2/5/2007	0.9
49417	6/5/2000	0.7
49417	1/26/2006	0.9
49417	3/23/2006	0.9
49417	4/9/1994	0.6
49417	3/6/2001	0.6
49417	3/6/2001	0.7
49417	3/10/2008	0.9
49417	4/12/2008	0.9
49417	9/12/2009	0.7
49417	1/18/1999	0.6
49417	4/17/2000	0.9
49417	2/10/2001	0.9
49417	2/6/2001	0.9
49417	4/21/1994	0.9
49417	11/19/2009	0.6
49417	1/27/2010	0.8
49417	10/29/1998	0.6
49417	1/22/2000	0.9
49417	11/4/1996	0.5
49417	11/25/1998	0.7
49417	11/6/1998	0.6
49417	2/2/1999	0.6
49417	4/4/1994	0.9
49417	4/21/1995	0.9
49417	4/21/1994	0.9
49417	3/25/1994	0.9
49417	3/26/1994	0.9
49417	3/28/1994	0.9
49417	10/29/1998	0.5
49417	10/12/1998	0.7
49417	12/12/1997	0.7
49417	11/6/1998	0.7
49417	8/3/2002	0.5
49417	11/5/1998	0.8
49417	3/16/2009	2.8
49417	4/10/2009	2.7
49417	5/5/1997	2.6
49417	10/17/2008	2.5
49417	3/28/1994	2.5
49417	3/30/2007	2.4
49417	4/6/2007	2.3
49417	2/17/2009	2.4
49417	4/11/2008	2.2
49417		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

	11/5/2009		2.4
49417	12/22/2009		2.4
49417	4/5/1994		2.2
49417	7/16/2001		2.2
49417	1/28/2005		2.3
49417	3/31/2005		2.2
49417	11/3/1998		2.1
49417	3/27/1999		2.7
49417	10/20/1998		2.9
49417	10/31/2005		2.8
49417	3/2/2007		2.6
49417	5/9/1994		2.6
49417	2/5/2000		2.6
49417	4/7/2008		2.8
49417	2/28/2000		2.8
49417	3/16/2009	<	0.3
49417	6/4/2009		3.6
49417	11/2/1998		3.5
49417	7/13/1998		3.4
49417	5/18/2000	<	0.3
49417	1/25/2007		3.2
49417	2/24/2001	<	0.3
49417	3/6/2001	<	0.3
49417	4/14/1994	<	0.3
49417	4/22/1999		3.2
49417	9/22/2009	<	0.3
49417	9/21/2009	<	0.3
49417	8/10/2009	<	0.3
49417	9/25/2003		3.7
49417	11/14/1998		3.1
49417	7/25/2009	<	0.3
49417	7/25/2009	<	0.3
49417	7/25/2009	<	0.3
49417	6/22/2009	<	0.3
49417	3/20/2006		3.9
49417	10/23/2000		3.3
49417	11/19/2009	<	0.3
49417	2/21/2009		3.7
49417	3/17/2007		3.4
49417	2/17/2009	<	0.3
49417	2/14/2009	<	0.3
49417	2/28/2009	<	0.3
49417	12/12/2000		5.9
49417	11/2/1998		5.0
49417	11/2/1998		4.8
49417	6/10/2008		5.0
49417	11/9/1998		6.9
49417	1/29/2010		2.0
49417	2/15/2000		8.9
49417	5/28/2004		2.0
49417	3/4/2006		2.1
49417	7/16/2008		2.0
49417	1/7/2010		2.1
49417	7/23/2009		2.0
49417	3/12/2009		2.0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for OTTAWA County: 3

Note: Zone 1 indoor average level > 4 pCi/L.

: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.

: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 49417

Number of sites tested: 8

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	Not Reported	Not Reported	Not Reported	Not Reported
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.938 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5™ Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5™ Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map

Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

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

Source: FEMA

Telephone: 877-336-2627

Date of Government Version: 2003, 2015

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

State Wetlands Data: Wetlands Inventory

Source: Department of Natural Resources

Telephone: 517-241-2254

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

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

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

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

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

The U.S. Department of Agriculture™s (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Data

Source: Department of Environmental Quality

Telephone: 517-335-9218

The data in this file was obtained from Wellogis, the Michigan Department of Environmental Quality Statewide Groundwater Database (SGWD). Wellogis contains approximately 425,000 water well records found within the State of Michigan, and although it represents the best available data, it cannot be considered a complete database of all the wells or well records in existence. 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 IRRA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

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

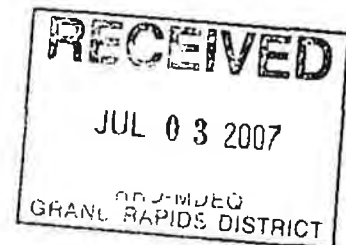
STREET AND ADDRESS INFORMATION

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Appendix 8

June 29, 2007

Ms. Darlene Stringer
Project Manager
Grand Rapids District Office, RRD, MDEQ
350 Ottawa Avenue NW, Unit 10
Grand Rapids, Michigan 49503-2341



Re: Status Report and Proposed Work Plan
Grand Haven Board of Light and Power – Diesel Plant
518 South Harbor Drive
Grand Haven, MI 49417

SITE/CO. 518 S Harbor Dr. / Ottawa
FILE NAME RIFS
TITLE Work Plan
DOCUMENT Lakeshore

Dear Ms. Stringer:

On behalf of the Grand Haven Board of Light and Power (GHBLP), Lakeshore Environmental, Inc. (Lakeshore) has prepared this letter to inform you of the recent activities conducted at the above-referenced facility (the Site). These activities were performed to generate additional information pertaining to the subsurface infrastructure, status of free phase liquids, and groundwater flow direction at the Site. The information was used to assist with the development of a work plan to more accurately define the horizontal extent of free phase liquids and the horizontal and vertical extent of dissolved phase hydrocarbons. A summary of the activities performed and the work plan are provided below. Summaries of Site operations and previous investigations have also been provided. Site maps are included as Attachment A.

GENERAL SITE OPERATIONS

The diesel plant is primarily comprised of five operable and two retired engines. These engines are occasionally utilized to generate electricity that supplements the coal plant (located off-Site) when demand is high. In a typical year, there may be a total of 35 days when the engines are running.

The engines utilize No. 5 and No. 2 diesel fuel, which are stored in 420,000 gallon and 30,000 gallon aboveground storage tanks (ASTs), respectively. A map depicting the AST locations is attached as Figure 1 of Attachment A. It should be noted that a second 420,000 gallon AST is located adjacent to the #5 diesel AST; however, this AST is currently empty and has been appropriately evacuated. The only underground piping associated with these ASTs extends from the 420,000 gallon ASTs to the Site building (see attached maps for detail).

Non-contact cooling water pumped from the Grand River to the Site building is used to maintain optimal engine temperatures when operating. The non-contact cooling water is then discharged to the storm sewer system where routine monitoring occurs pursuant to applicable regulations. In general, non-contact cooling water is only necessary when the engines are operating. No groundwater is utilized on the Site. Potable water provided by the City of Grand Haven is utilized for irrigation and consumptive purposes.

**Lakeshore
Environmental, Inc.**



Consulting Hydrogeologists & Engineers | www.lakeshoreenvironmental.com

803 Verhoeks | Grand Haven, MI 49417 | 616-844-5050 | 800-844-5050 | 844-5053 fax

PREVIOUS INVESTIGATIONS

According to the Additional Delineation Investigation report generated by Dixon Environmental Consulting (Dixon) in October 2006, a release of No. 5 fuel oil was discovered at the Site in July 2005 when a GHBLP employee observed fuel oil seeping through the southwest basement wall of the Site building at the location of the fuel oil pipe chase. The source of the release was identified as "small corrosion holes" in the underground fuel oil piping located beneath Sherman Avenue (immediately south of the Site building).

Initial response activities to address the release involved the excavation and proper disposal of nearly 443 tons of contaminated soil (the excavation was backfilled with clean fill material), collection of 23 soil samples within the excavation limits, proper removal and disposal of the deteriorated underground fuel oil piping, installation of new underground piping, and installation of two monitoring wells (MW-1 and MW-4). Information relative to these activities has been provided in the Additional Delineation Investigation report.

The soil excavation extended west northwest from the south side of Sherman Avenue to the southwest portion of the Site building, corresponding to the location of the former underground fuel oil piping run. The depth of the excavation ranged from approximately 7.0 feet below grade beneath Sherman Avenue (the presence of utilities limited further vertical excavation) to approximately 5.0 feet below grade from the north side of Sherman Avenue to the southwest portion of the Site building where the former underground fuel oil piping entered the basement. The excavation limits are depicted on Figure 2 of Attachment A.

Soil sampling conducted in conjunction with the soil excavation revealed that seven of the 23 soil samples collected contained concentrations of one or more of the contaminants of concern at levels exceeding current Part 201 Generic Cleanup Criteria (GCC). The soil sampling locations are illustrated on Figure 2 of Attachment A. Results from the soil sampling (completed by Dixon) are provided in Attachment B. No other information concerning the soil excavation and associated sampling has been provided to Lakeshore.

Additional subsurface investigation activities conducted by Dixon after the initial response activities included the installation of six monitoring wells (MW-5, MW-6, MW-7, MW-8, MW-9 and MW-10), collection of soil samples from each monitoring well location, and monitoring well sampling of all facility wells. Details related to these activities and the soil and groundwater sampling results are summarized in the Additional Delineation Investigation report, with the exception of the March 2007 quarterly monitoring well sampling event conducted by Dixon. In general, the soil and groundwater sampling results revealed no contaminants of concern at concentrations exceeding Part 201 GCC at any of the sampling locations (groundwater samples were not collected from MW-1 due to the presence of free phase liquids). The March 2007 groundwater sampling results are provided in Attachment B.

FREE PRODUCT MONITORING AND RECOVERY

Monthly monitoring of all facility wells for the presence of free phase liquids has occurred since March 2007. In general, no free phase liquids have been observed in any of the monitoring wells with the exception of MW-1. Free phase liquid thickness at the MW-1 location has ranged from 3.0 to 5.0 inches with approximately 0.5 gallons recovered and properly disposed since March 2007. A table summarizing the information obtained from March through June 2007 is provided in Attachment C.

GROUNDWATER FLOW DIRECTION

Static water level measurements were recorded at all monitoring well locations on June 26, 2007. Based on the data obtained, the groundwater flow direction beneath the investigation area is to the north northwest toward the Grand River (located approximately 215 feet northwest of the Site). The hydraulic gradient across the investigation area is 0.008 feet/foot. This information is consistent with previous investigations conducted on the Site. A groundwater elevation contour map is included as Figure 3 of Attachment A.

MANHOLE EVALUATION

With the assistance of GHBLP personnel, Lakeshore conducted a manhole evaluation on June 18, 2007, for purposes of further determining the subsurface utility layout and verifying the environmental integrity of these utilities. The manhole evaluation targeted 11 manholes situated between South Harbor Drive and the Site building as well as four interior manholes located in the basement.

Seven of the 11 exterior manholes that were evaluated are associated with the inlet and outlet storm sewer lines of the oil/water separator. These manholes are concrete lined and approximately 9.0 to 10 feet deep. Approximately 0.5 to 1.5 feet of standing water was observed in each of these manholes. No free product was observed in any of the manholes.

Three of the remaining four exterior manholes that were evaluated are associated with other storm sewer lines while the fourth exterior manhole is related to the Site sanitary. Each of these manholes is concrete lined. The northern storm manhole and the sanitary manhole contained standing water. No free product was observed in these manholes.

The concrete lined interior manholes are located in the basement and range in depth from approximately 2.0 to 4.0 feet. At each manhole location, standing water was encountered at approximately 1.0 to 1.5 feet below the basement floor. Water clarity was good with no free product observed.

A table and sketch summarizing the manhole information and locations, respectively, is provided as Attachment D. Information obtained during the manhole evaluation regarding the subsurface utility layout is provided on the Site Utilities Map (Figure 4 of Attachment A).

UTILITY INVESTIGATION

Lakeshore obtained utility layout, depth and construction information from the following sources: Miss Dig, City of Grand Haven and GHBLP. A map depicting the known utilities is attached (Figure 4 of Attachment A). A Cross Section Location Map and Cross Section are provided as Figures 5 and 6 of Attachment A. Notable information relevant to the investigation area is summarized below.

- In the vicinity of monitoring well MW-1, the only known subsurface utility is a 15-inch diameter clay storm sewer line buried in sand approximately 3.0 to 4.0 feet below grade.
- All interior floor drains are connected to the oil/water separator.
- Due to the age of the Site building, information was not available to verify the depth of the footings. However, based on the large size of the building, nature of building construction materials (brick) and shallow depth to groundwater, it is believed that the concrete footings are approximately 6.0 feet below the basement floor.
- The basement floor in the vicinity of monitoring well MW-1 is approximately 8.5 feet below grade.
- The basement walls, and likely footings, are 12 inches thick.
- The three interior manholes not associated with the oil/water separator have no inlet or outlet pipes. Although the historical use of these manholes is unknown, they do not appear to pose a threat to the subsurface.
- The 30,000 gallon #2 diesel aboveground storage tank (AST) has no below grade piping.

OIL WATER SEPARATOR INFORMATION

Information provided by the GHBLP indicates that a 5,000 gallon oil/water separator was installed in 1998 directly west of the Site building. The oil/water separator was designed to receive liquids from the Site building floor drains, applicable interior manholes, and certain stormwater manholes. Effluent from the oil/water separator is routed through an outlet line to a monitored stormwater discharge location (GHBLP has NPDES monitoring obligations).

The oil/water separator is equipped with a high level alarm and SCADA technologies, which alert personnel of potential concerns. In June 2006, Northern A-1 Services extracted approximately 386 gallons of oil/water/sludge from the oil/water separator. Since the oil/water separator was installed in 1998, there have been no concerns.

PROPOSED ACTIVITIES AND SCHEDULE OF IMPLEMENTATION

Lakeshore proposes the following activities to provide further definition of the extent of free phase liquids at the Site, monitor and recover free phase liquids, and generate additional monitoring well/groundwater data.

Shallow Monitoring Well Installation and Sampling

Lakeshore proposes to install a shallow monitoring well 25 feet directly downgradient (northwest) and 25 feet sidegradient (west) of MW-1 to further define the horizontal extent of free phase liquids. Since no subsurface utilities are known to exist in the groundwater in the vicinity of monitoring well MW-1, no free product was observed in the manholes in the basement of the Site building, and the subsurface construction of the building to the east of MW-1 is such that migration of free phase liquids to the east is not likely, it is believed that the locations of these wells will be adequate.

During the soil borings that will be conducted to facilitate monitoring well installation, Lakeshore will screen the soil encountered and collect appropriate soil samples pursuant to Michigan Department of Environmental Quality (MDEQ) protocol. The soil samples will be submitted for laboratory analysis of benzene, toluene, ethylbenzene, xylenes (BTEX) and polynuclear aromatic hydrocarbons (PNAs).

Once the wells have been installed and the groundwater has had adequate time to equilibrate, Lakeshore will collect groundwater samples utilizing low-flow sampling techniques consistent with MDEQ protocol. The groundwater samples will be submitted for laboratory analysis of BTEX and PNAs.

Free Phase Liquid Monitoring and Recovery

At the present time, free phase liquid monitoring and recovery will continue, as directed in your February 2007 letter to Ms. Staci LeFurge (GHBLP). All facility wells will be monitored, free phase liquid thickness will be recorded (if present), and any free phase liquids observed will be recovered and properly disposed. These activities will be conducted utilizing the same techniques employed since March 2007. Should future activities reveal conditions warranting more comprehensive monitoring/recovery, a new plan will be immediately developed, discussed with you, and implemented. It is likely that the new well information will provide justification for reducing the number of monitoring wells that are routinely evaluated for free phase liquids.

Quarterly Monitoring Well Sampling

It is Lakeshore's intention to reduce the number of monitoring wells that are sampled on a quarterly basis. Utilizing the data generated from the proposed new monitoring wells and the existing groundwater data generated from two previously completed monitoring well sampling events, Lakeshore anticipates eliminating monitoring wells MW-3, MW-6, MW-7, MW-8, and MW-10. Should you agree to the elimination of any monitoring wells, Lakeshore will continue to record static water level measurements from the eliminated wells during the quarterly sampling events.

Ms. Stringer
June 29, 2007
Page 6 of 6

Groundwater sampling will be conducted utilizing low-flow sampling techniques consistent with MDEQ guidelines. Samples will be submitted for laboratory analysis of BTEX and PNAs. Following receipt of the groundwater sampling results, a groundwater results summary report will be generated and submitted to you.

Vertical Groundwater Profiling and Well Installation

To evaluate the vertical extent of dissolved hydrocarbons, Lakeshore intends to conduct vertical profiling of the groundwater and install a deep monitoring well downgradient of MW-1. However, this will not be conducted until the horizontal extent of free phase liquids and dissolved hydrocarbons is more accurately defined.

Schedule of Implementation

Task	Date of Completion
Shallow Monitoring Well Installation x 2, Soil Sampling	Week of July 9, 2007
Sample New Wells	Week of July 16, 2007
Evaluate Data and Discuss with MDEQ	Week of July 23, 2007
Conduct Free Product Monitoring/Recovery/Disposal	Week of July 23, 2007
Conduct Third Quarter Sampling	Week of July 30, 2007

Lakeshore believes that the Grand Haven Board of Light and Power has demonstrated diligence in rectifying the concerns associated with this issue and we look forward to your response regarding the proposed activities. Please contact me at 616-844-5050 with any questions, or if you require additional information.

Sincerely,



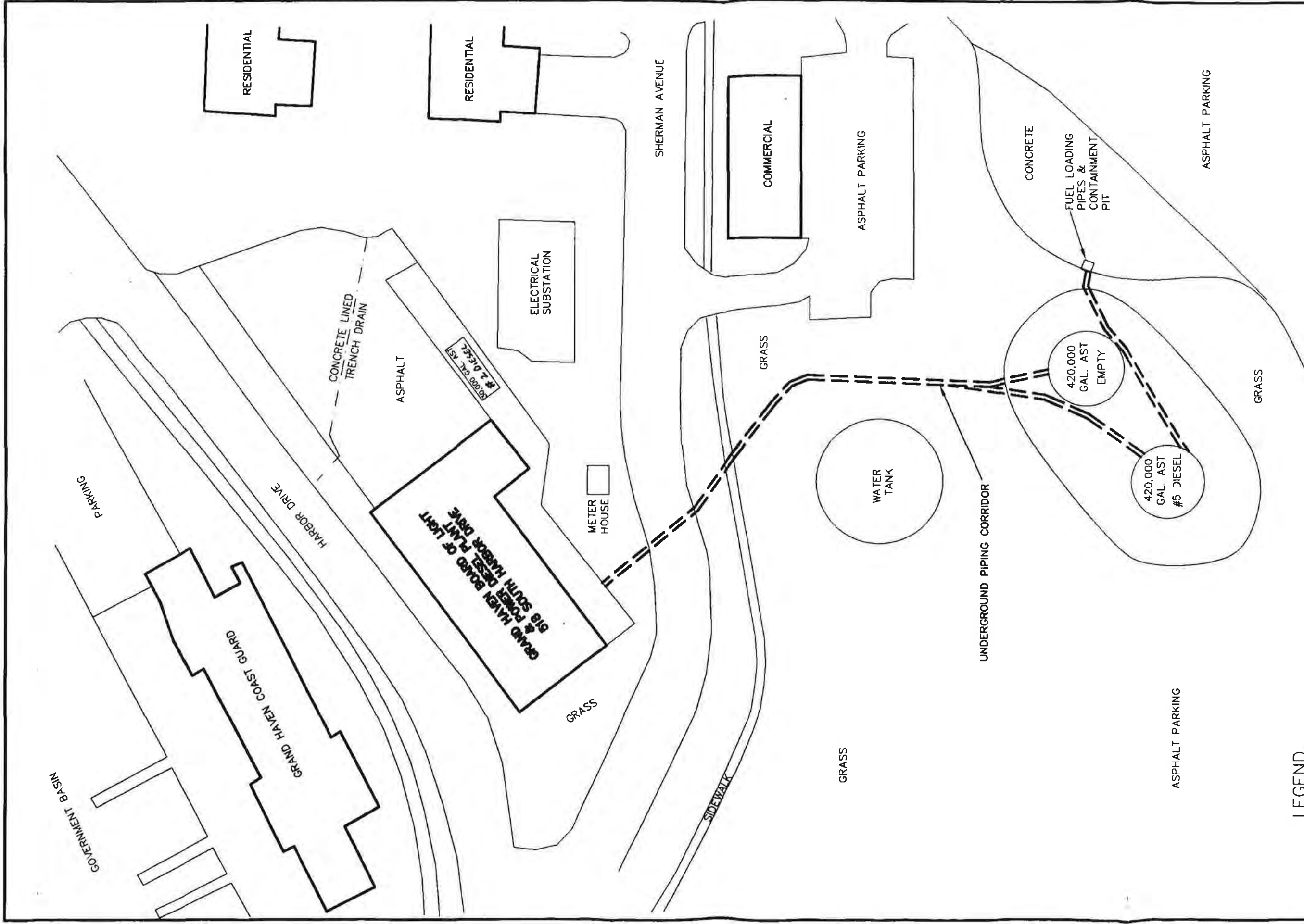
Roman A. Wilson, REPA
Project Manager

{07-113-01in:100projects ck:rw}

cc: Ms. Staci LeFurge, Grand Haven Board of Light and Power
File

ATTACHMENT A

Site Maps



LEGEND

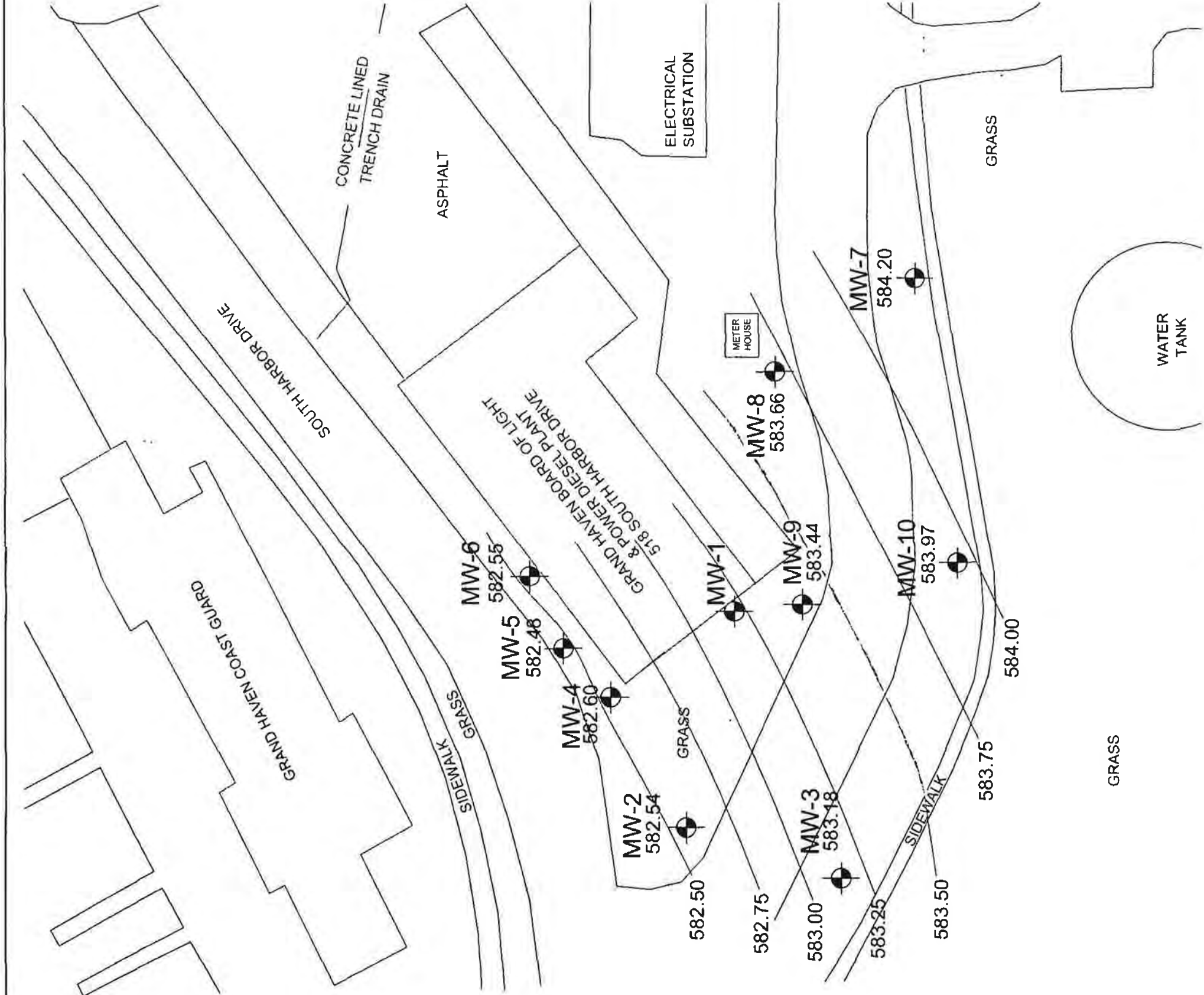
AST - ABOVE GROUND STORAGE TANK

EXPANDED SITE UTILITIES

EXPANDED SITE MAP



GRAND HAVEN BOARD OF LIGHT & POWER

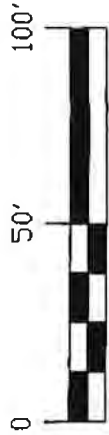


LEGEND

- MONITORING WELL LOCATION
- 584.20 GROUNDWATER ELEVATION
- 584.20 — GROUNDWATER ELEVATION CONTOUR
- NM NOT MEASURED

MONITORING WELL INFORMATION- JUNE 26, 2007					
WELL #	TOP OF CASING	STATIC WATER LEVEL	GROUNDWATER ELEVATION	SCREEN INTERVAL	CONSTRUCTION DATE/MATERIAL
MW-1	598.22	***	***	10-15'	2005/PVC
MW-2	596.99	14.45	582.54	17.5-22.5'	2005/PVC
MW-3	606.49	23.31	583.18	25-30'	2005/PVC
MW-4	591.29	8.69	582.60	7-12'	2005/PVC
MW-5	590.89	8.41	582.48	5.5-10.5'	2006/PVC
MW-6	590.35	7.80	582.55	5.5-10.5'	2006/PVC
MW-7	614.86	30.66	584.20	30-35'	2006/PVC
MW-8	607.83	24.17	583.66	23-28'	2006/PVC
MW-9	601.14	17.70	583.44	15.5-20.5'	2006/PVC
MW-10	615.17	31.20	583.97	30-35'	2006/PVC

*** CONTAINED MEASURABLE FREE PHASE LIQUIDS



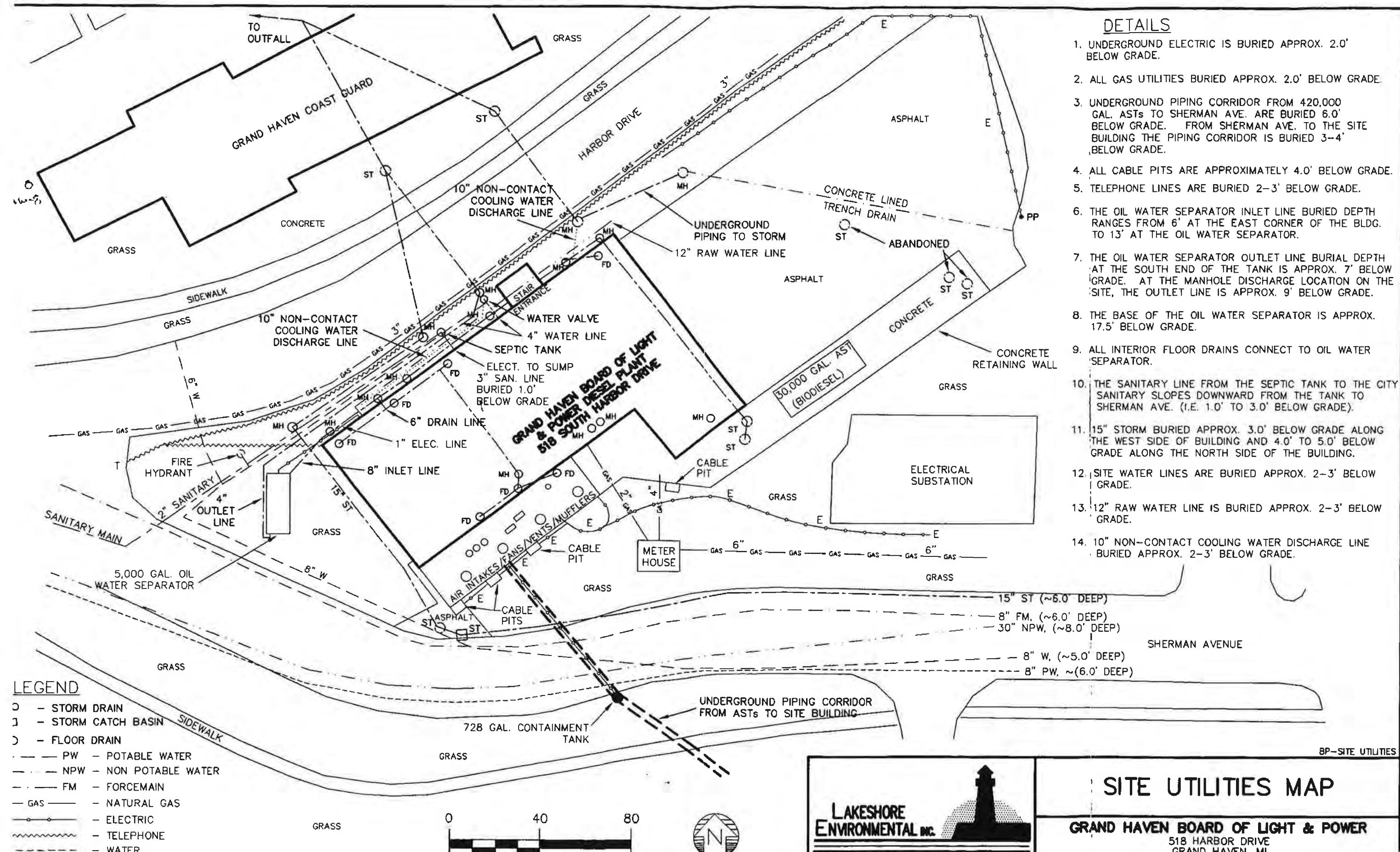
SCALE: 1" = 50'

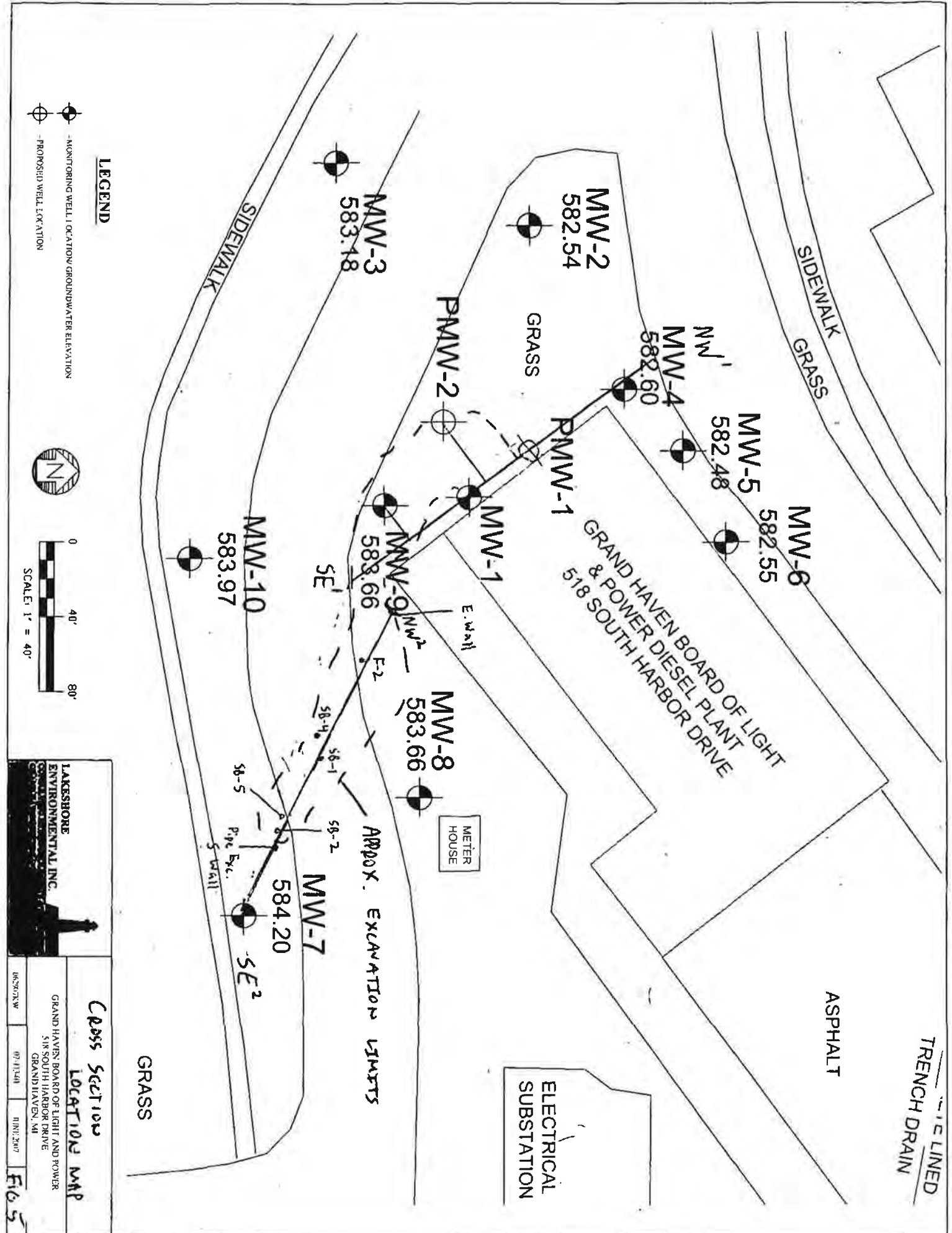


LAKESHORE
ENVIRONMENTAL INC.

GROUNDWATER ELEVATION
CONTOUR MAP

GRAND HAVEN BOARD OF LIGHT AND POWER
518 SOUTH HARBOR DRIVE
GRAND HAVEN, MI





LAKESHORE ENVIRONMENTAL INC.

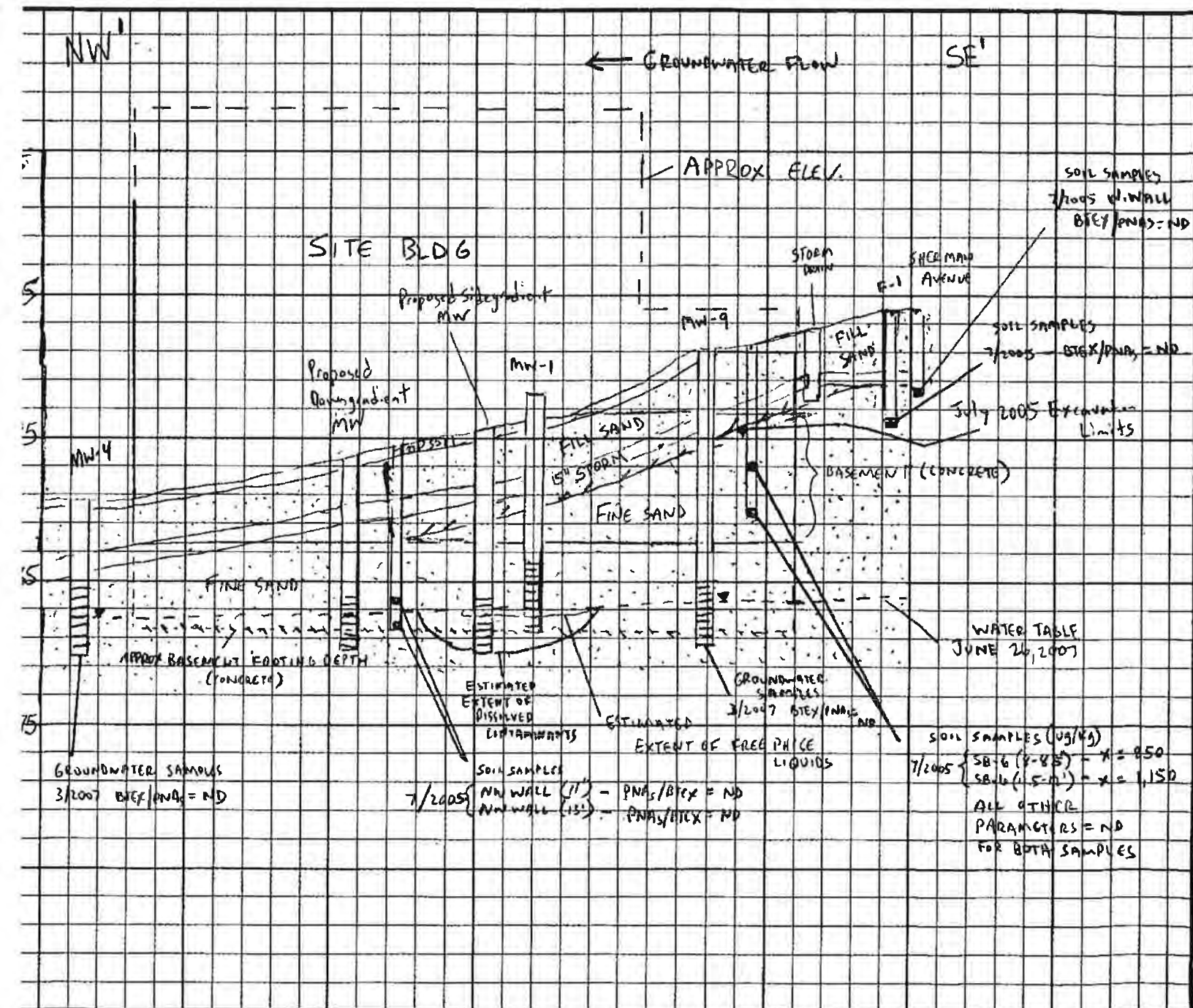
Cross Section

LOCATION MAP

GRAND HAVEN BOARD OF LIGHT AND POWER
518 SOUTH HARBOR DRIVE
GRAND HAVEN, MI

06/26/2007 07/11/2007 RINE 2007

Fig 5



AL SCALE 1" = 20'
 L SCALE 1" = 10'
 EXAGGERATION 2X

FIGURE 6

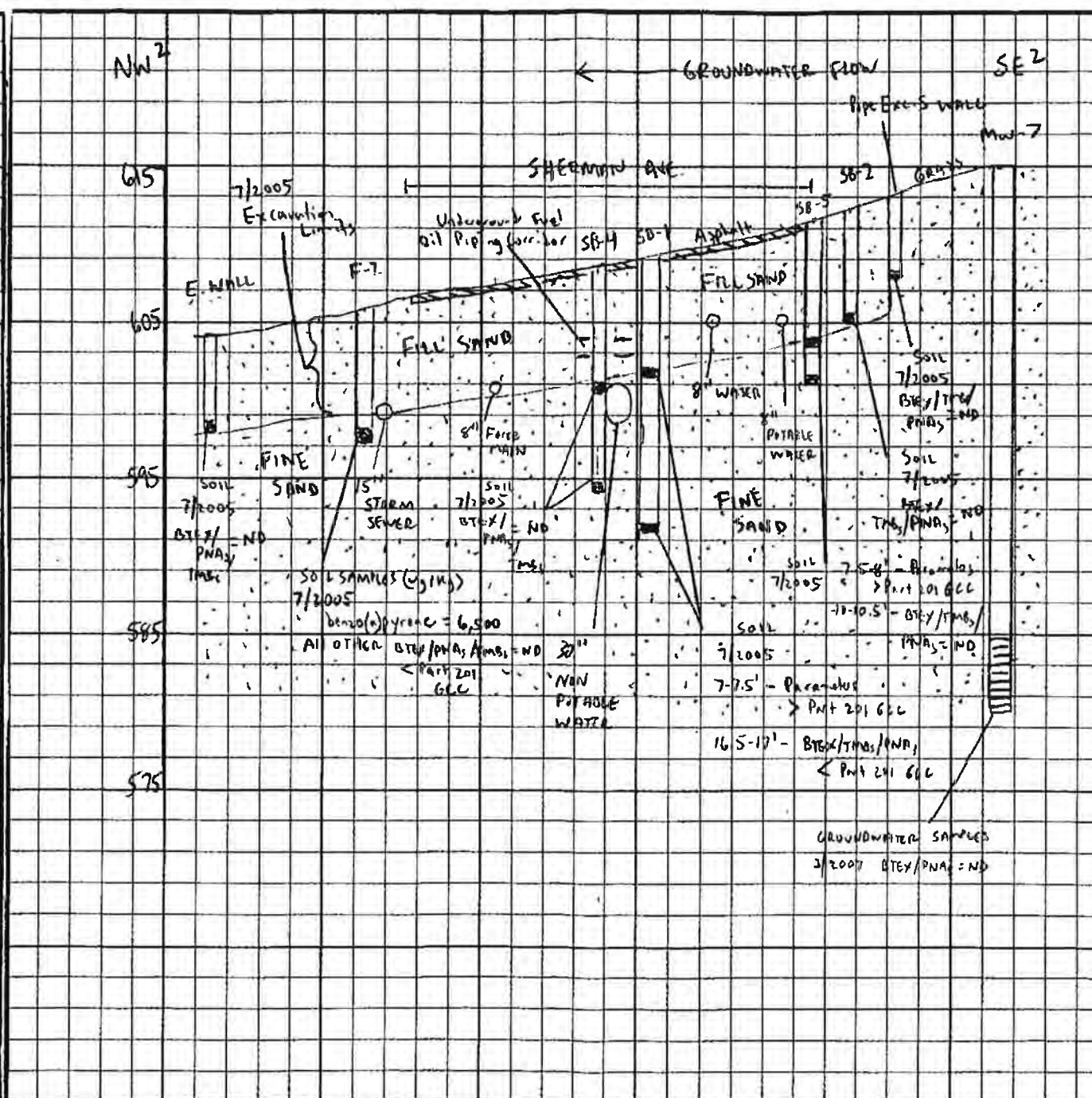
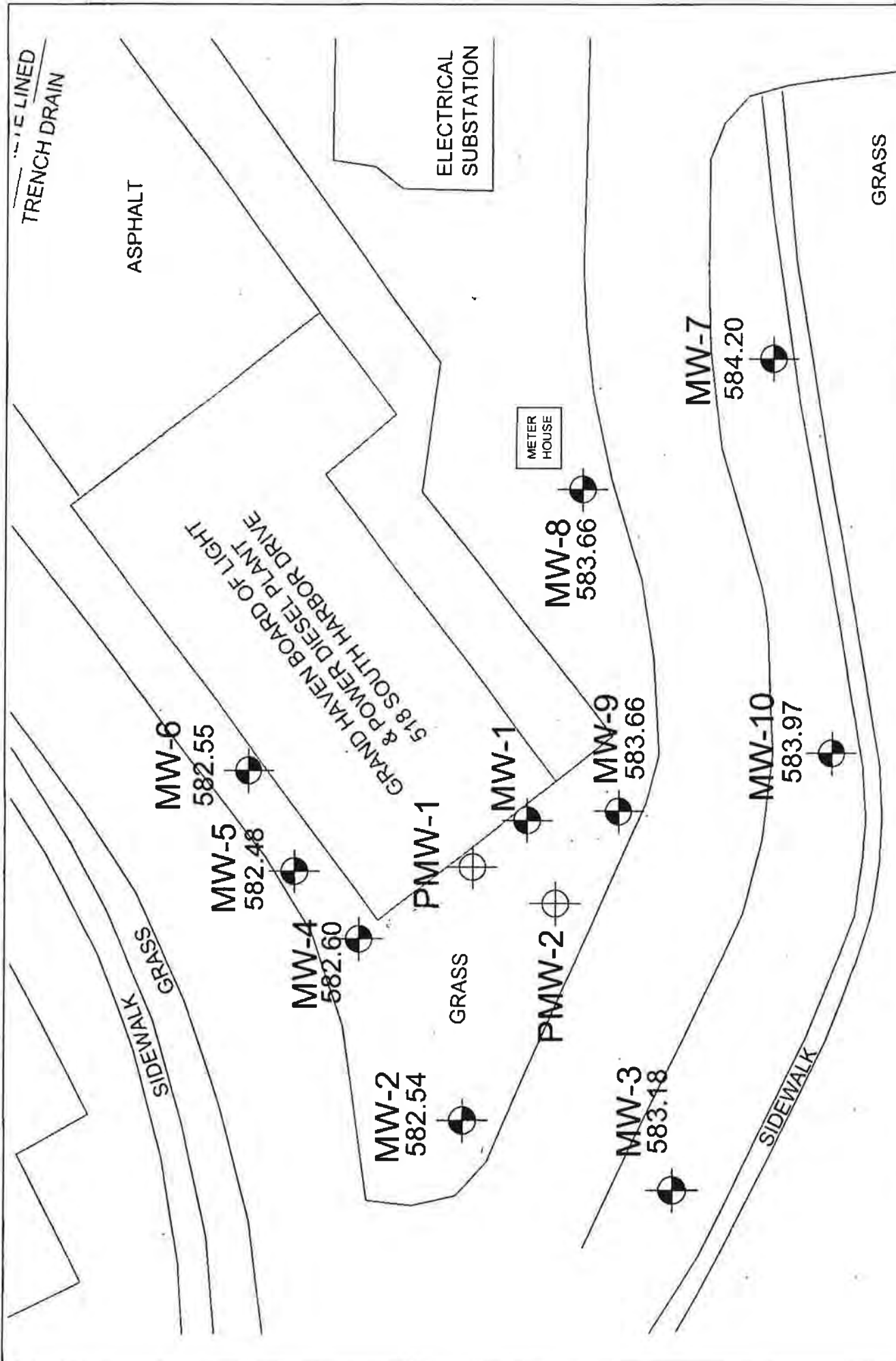


FIGURE 6



PROPOSED MONITORING WELL LOCATION MAP

LAKE SHORE ENVIRONMENTAL INC.

GRAND HAVEN BOARD OF LIGHT AND POWER
518 SOUTH HARBOR DRIVE
GRAND HAVEN, MI

06/30/2017 07/11/2017 JUNE 2017

FIGURE 7

ATTACHMENT B

Analytical Data

Table 1 - Draft Soil Sample Analytical Results Summary, cont.

518 South Harbor Drive, Grand Haven, Michigan

Constituent	CAS Number	SB-2 (7-7.5') (µg/Kg)	Pipe Exc. W. Wall (5') (µg/Kg)	Pipe Exc. S. Wall (5') (µg/Kg)	Pipe Exc. E. Wall (4') (µg/Kg)	SB-3 (7-7.5') (µg/Kg)	SB-3 (16.5-17') (µg/Kg)	SB-4 (7.5-8') (µg/Kg)	SB-4 (13.5-14') (µg/Kg)	GRCC for Soil (µg/Kg)
POLYNUCLEAR AROMATIC HYDROCARBONS (PNA's)										
acenaphthene	83329	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	4,400 ^a
acenaphthylene	208968	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	5,900 ^b
anthracene	120127	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	41,000 ^b
benzo(a)anthracene	56553	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	20,000 ^a
benzo(a)pyrene	50328	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	2,000 ^a
benzo(b)fluoranthene	205992	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	20,000 ^a
benzo(g,h,i)perylene	191242	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	2,500,000 ^a
benzo(k)fluoranthene	207089	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	200,000 ^a
chrysene	218019	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	2,000,000 ^a
dibenz(a,h)anthracene	53703	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	2,000 ^a
fluoranthene	206440	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	5,500 ^a
fluorene	86737	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	5,300 ^a
indeno(1,2,3-cd)pyrene	193395	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	20,000 ^a
2-methylnaphthalene	91576	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	57,000 ^b
naphthalene	91203	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	870 ^a
phenanthrene	85018	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	5,300 ^a
pyrene	129000	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	480,000 ^a
VOLATILE ORGANIC COMPOUNDS (VOCs)										
benzene	71432	< 50	< 50	< 50	< 50	200	61	< 50	< 50	100 ^b
toluene	108883	< 50	< 50	< 50	< 50	1,200	530	< 50	< 50	2,800 ^a
ethylbenzene	100414	< 50	< 50	< 50	< 50	210	170	< 50	< 50	360 ^a
xylene (total)	1330207	< 150	< 150	< 150	< 150	1,550	1,270	< 150	< 150	700 ^a
methyl tert-butyl ether	1634044	NS	NS	NS	NS	NS	NS	NS	NS	800 ^b
1,2,4-trimethylbenzene	95636	< 50	< 50	< 50	< 50	340	270	< 50	< 50	570 ^a
1,3,5-trimethylbenzene	108678	< 50	< 50	< 50	< 50	110	100	< 50	< 50	1,100 ^a

Notes:

* Groundwater Surface Water Interface Protection Criteria.

^a Residential and Commercial I Drinking Water Protection Criteria.

^b Residential and Commercial I Direct Contact Criteria.

NS - Sample not analyzed for chemical parameter specified.

Results in **bold** exceed the Generic Residential Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Operational Memorandum # 1: Part 201 Cleanup Criteria and Part 213 Risk Based Screening Level tables, dated December 10, 2004.

Samples collected on July 12, 14, 15, 18, 19 and 27, 2005.

Table 1 - Draft Soil Sample Analytical Results Summary, cont.
518 South Harbor Drive, Grand Haven, Michigan

Constituent	CAS Number	SB-5 (7.5-8') (µg/Kg)	SB-5 (10-10.5') (µg/Kg)	SB-6 (8-8.5') (µg/Kg)	SB-6 (11.5-12') (µg/Kg)	SB-7 (8-8.5') (µg/Kg)	SB-7 (17.5-18') (µg/Kg)	F-3 (3.5') (µg/Kg)	GRCC for Soil (µg/Kg)
POLYNUCLEAR AROMATIC HYDROCARBONS (PNAs)									
acenaphthene	83329	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	4,400 ^a
acenaphthylene	208968	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	5,900 ^b
anthracene	120127	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	41,000 ^b
benzo(a)anthracene	56553	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	20,000 ^a
benzo(a)pyrene	50328	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	2,000 ^a
benzo(b)fluoranthene	205992	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	20,000 ^a
benzo(g,h,i)perylene	191242	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	2,500,000 ^a
benzo(k)fluoranthene	207089	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	200,000 ^a
chrysene	218019	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	2,000,000 ^a
dibenz(a,h)anthracene	53703	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	2,000 ^a
fluoranthene	206440	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	5,500 ^a
fluorene	86737	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	5,300 ^a
indeno(1,2,3-cd)pyrene	193395	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	20,000 ^a
2-methylnaphthalene	91576	13,000	< 3,300	< 3,300	< 330	< 330	< 330	< 330	57,000 ^b
naphthalene	91203	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	870 ^a
phenanthrene	85018	8,500	< 3,300	< 3,300	< 330	< 330	< 330	< 330	5,300 ^a
pyrene	129000	< 3,300	< 3,300	< 3,300	< 330	< 330	< 330	< 330	480,000 ^a
VOLATILE ORGANIC COMPOUNDS (VOCs)									
benzene	71432	< 50	< 50	< 50	< 50	< 50	< 50	< 50	100 ^b
toluene	108883	670	< 50	< 50	300	< 50	< 50	< 50	2,800 ^a
ethylbenzene	100414	1,300	< 50	150	150	< 50	< 50	< 50	360 ^a
xylenes (total)	1330207	8,100	< 150	850	1,150	< 150	< 150	< 150	700 ^a
methyl tert-butyl ether	1634044	NS	NS	NS	NS	NS	NS	NS	800 ^b
1,2,4-trimethylbenzene	95636	11,000	< 50	310	290	< 50	< 50	< 50	570 ^a
1,3,5-trimethylbenzene	108678	2,900	< 50	120	100	< 50	< 50	< 50	1,100 ^a

Notes:

- ^a Groundwater Surface Water Interface Protection Criteria
- ^b Residential and Commercial II Drinking Water Protection Criteria
- ^c Residential and Commercial II Direct Contact Criteria

NS - Sample not analyzed for chemical parameter specified

Results in **bold** exceed the Generic Residential Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Operational Memorandum # 1: Part 201 Cleanup Criteria and Part 213 Risk Based Screening Level tables, dated December 10, 2004.

Samples collected on July 12, 14, 15, 18, 19 and 27, 2005.

Table 1 - Draft Soil Sample Analytical Results Summary
518 South Harbor Drive, Grand Haven, Michigan

Constituent	CAS Number	F-1 (8') (µg/Kg)	W. Wall (6') (µg/Kg)	E. Wall (6') (µg/Kg)	F-2 (8') (µg/Kg)	NW Wall (13') (µg/Kg)	NW Wall (11') (µg/Kg)	SB-1 (7'-7.5') (µg/Kg)	SB-1 (16.5-17') (µg/Kg)	GRCC for Soil (µg/Kg)
POLYNUCLEAR AROMATIC HYDROCARBONS (PNAHs)										
acenaphthene	83329	< 330	< 330	< 330	< 330	< 330	< 330	< 50,000	< 330	4,400 ^a
acenaphthylene	208968	< 330	< 330	< 330	< 330	< 330	< 330	< 50,000	< 330	5,900 ^b
anthracene	120127	< 330	< 330	< 330	530	< 330	< 330	< 50,000	< 330	41,000 ^b
benzo(a)anthracene	56553	< 330	< 330	< 330	620	< 330	< 330	< 50,000	< 330	20,000 ^a
benzo(a)pyrene	50328	< 330	< 330	< 330	6,500	< 330	< 330	< 50,000	< 330	2,000 ^a
benzo(b)fluoranthene	205992	< 330	< 330	< 330	< 330	< 330	< 330	< 50,000	< 330	20,000 ^a
benzo(g,h,i)perylene	191242	< 330	< 330	< 330	3,700	< 330	< 330	< 50,000	< 330	2,500,000 ^a
benzo(k)fluoranthene	207089	< 330	< 330	< 330	< 330	< 330	< 330	< 50,000	< 330	200,000 ^a
chrysene	218019	< 330	< 330	< 330	6,600	< 330	< 330	53,000	< 330	2,000,000 ^a
dibenz(a,h)anthracene	53703	< 330	< 330	< 330	920	< 330	< 330	< 50,000	< 330	2,000 ^a
fluoranthene	206440	< 330	< 330	< 330	1,200	< 330	< 330	< 50,000	< 330	5,500 ^a
fluorene	86737	< 330	< 330	< 330	540	< 330	< 330	< 50,000	< 330	5,300 ^a
indeno(1,2,3-cd)pyrene	193395	< 330	< 330	< 330	1,600	< 330	< 330	< 50,000	< 330	20,000 ^a
2-methylnaphthalene	91576	< 330	< 330	< 330	2,100	< 330	< 330	230,000	< 330	57,000 ^b
naphthalene	91203	< 330	< 330	< 330	450	< 330	< 330	< 50,000	< 330	870 ^a
phenanthrene	85018	< 330	< 330	< 330	940	< 330	< 330	110,000	< 330	5,300 ^a
pyrene	129000	< 330	< 330	< 330	11,000	< 330	< 330	72,000	< 330	480,000 ^a
VOLATILE ORGANIC COMPOUNDS (VOCs)										
benzene	71432	< 50	< 50	< 50	< 50	< 50	< 50	270	< 50	100 ^b
toluene	108883	< 50	< 50	< 50	< 50	< 50	< 50	3,200	< 50	2,800 ^a
ethylbenzene	100414	< 50	< 50	< 50	< 50	< 50	< 50	2,500	< 50	360 ^a
xylene (total)	1330207	< 150	< 150	< 150	242	< 150	< 150	14,000	< 150	700 ^a
methyl tert-butyl ether	1634044	< 250	< 250	< 250	< 250	NS	NS	NS	NS	800 ^b
1,2,4-trimethylbenzene	95636	< 50	< 50	< 50	300	< 50	< 50	18,000	280	570 ^a
1,3,5-trimethylbenzene	108678	< 50	< 50	< 50	94	< 50	< 50	3,900	70	1,100 ^a

Notes:

- * Groundwater Surface Water Interface Protection Criteria.
- * Residential and Commercial 11 Drinking Water Protection Criteria.
- * Residential and Commercial 11 Direct Contact Criteria.

NS - Sample not analyzed for chemical parameter specified.

Results in **bold** exceed the Generic Residential Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Operational Memorandum # 1: Part 201 Cleanup Criteria and Part 213 Risk Based Screening Level tables, dated December 10, 2004.

Samples collected on July 12, 14, 15, 18, 19 and 27, 2005.

Table 2 - Draft Groundwater Sample Analytical Results Summary
518 South Harbor Drive, Grand Haven, Michigan

Constituent	CAS Number	TMW-1 (µg/L)	SB-1 (7-7.5') (µg/L)	SB-3 (7-7.5') (µg/L)	SB-3 (16.5-17') (µg/L)	MW-2 (µg/L)	MW-3 (µg/L)	MW-4 (µg/L)	Equip. Blank (µg/L)	GRCC for Groundwater (µg/L)
POLYNUCLEAR AROMATIC HYDROCARBONS (PNAs)										
acenaphthene	83329	< 5.0	< 5.0	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	19 ^a
acenaphthylene	208968	< 5.0	< 5.0	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	52 ^b
anthracene	120127	< 5.0	< 5.0	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	43 ^b
benzo(a)anthracene	56553	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	2.1 ^b
benzo(a)pyrene	50328	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^b
benzo(b)fluoranthene	205992	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	2.0 ^b
benzo(g,h,i)perylene	191242	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^b
benzo(k)fluoranthene	207089	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^b
chrysene	218019	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^b
dibenzo(a,h)anthracene	53703	< 2.0	< 5.0	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	2.0 ^b
fluoranthene	206440	< 1.0	< 5.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
fluorene	86737	< 5.0	< 5.0	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	12 ^a
indeno(1,2,3-cd)pyrene	193395	< 2.0	< 5.0	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	2.0 ^b
2-methylnaphthalene	91576	< 5.0	39	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	260 ^b
naphthalene	91203	< 5.0	38	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	13 ^a
phenanthrene	85018	< 2.0	< 5.0	NS	NS	< 2.0	< 2.0	< 2.0	< 2.0	5.0 ^a
pyrene	129000	< 5.0	< 5.0	NS	NS	< 5.0	< 5.0	< 5.0	< 5.0	140 ^a
VOLATILE ORGANIC COMPOUNDS (VOCs)										
benzene	71432	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^b
toluene	108883	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	140 ^a
ethylbenzene	100414	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18 ^a
xylenes (total)	1330207	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	35 ^a
1,2,4-trimethylbenzene	95636	< 1.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17 ^a
1,3,5-trimethylbenzene	108678	< 1.0	NS	NS	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	45 ^a

Notes:

^a Groundwater Surface Water Interface Protection Criteria.

^b Residential and Commercial Drinking Water Protection Criteria.

NS - Sample not analyzed for chemical parameter specified.

Results in **bold** exceed the Generic Residential Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Operational Memorandum # 1: Part 201 Cleanup Criteria and Part 213 Risk Based Screening Level tables, dated December 10, 2004.

Samples collected on July 15, 18, 19 and September 2, 2005.

December 7, 2020



Sent via mail and email to: PearsonD1@michigan.gov

Ms. Darlene Pearson
Michigan Department of Environment, Great Lakes, and Energy
Remediation and Redevelopment
350 Ottawa Avenue NW, Unit 10
Grand Rapids, Michigan 49503-2341

Re: 2020 Annual Monitoring Well Sampling Report
Grand Haven Board of Light and Power – Diesel Power Plant
518 South Harbor Drive
Grand Haven, Ottawa County, Michigan

Dear Ms. Pearson:

On behalf of the Grand Haven Board of Light and Power (BLP), Lakeshore Environmental, Inc. (LEI) has prepared this letter to summarize recent annual monitoring well sampling activities conducted at the above-referenced facility (the Site). The BLP has been performing annual monitoring well sampling since 2007 to evaluate groundwater conditions on the Site relative to a historical release of No. 5 diesel fuel. These activities are ongoing pursuant to the conditions noted in your letter to the BLP, dated December 30, 2009.

Annual Groundwater Monitoring Activities

LEI visited the Site on October 8, 2020. Monitoring wells MW-1 through MW-6, MW-9, and MW-11 were opened for acclimation to the atmosphere prior to collection of static water level (SWL) measurements. SWL measurements were not obtained from monitoring wells MW-7, MW-8 and MW-10. MW-8 could not be located. MW-7 and MW-10 have been permanently destroyed.

SWL measurements were recorded at monitoring well locations MW-1 through MW-6, MW-9, and -11 utilizing an electronic static water level meter accurate to 0.01-feet. Measurements were made relative to the previously surveyed well top-of-casing. Groundwater elevation and flow direction information is presented on the *Groundwater Elevation Contour Map* included in **Attachment A**.

Due to the past presence of mobile non-aqueous phase liquid (NAPL) at the MW-1 and MW-11 locations, an oil-water interface probe was utilized to determine the presence of the sheen/NAPL (if present) at these locations. The interface probe detected a slight petroleum sheen at MW-1 and MW-11.

Following SWL and NAPL measurements, MW-4, downgradient of MW-1 and MW-11, was purged and sampled following EPA low-flow minimal disturbance methodology; LEI utilized a peristaltic pump, multi-parameter water quality probe to measure stabilized field conditions (i.e., pH, dissolved oxygen, oxidation reduction potential, etc., and a portable turbidity meter). Upon stabilization, groundwater samples were collected in laboratory-provided, pre-preserved containers and transported in an iced cooler to Trace Analytical Laboratories of Muskegon, Michigan for full scan analysis of volatile organic compounds (VOCs) and semi-volatile organic compounds (SVOCs) following EPA methods 8260 and 8270, respectively. At the conclusion of the sampling event, purge water was placed back into the monitoring well.

Corporate Office
803 Vehoeks St.
Grand Haven, Michigan 49417
Phone: 800.844.5050
www.MY-LEI.com



Grand Haven, MI

Grand Rapids, MI

Muskegon, MI

Vestaburg, MI

Findings and Results

Based on this sampling event:

- The average groundwater elevation is approximately 0.16 feet lower than in 2019.
- The groundwater flow direction continues to be to the northwest toward the Grand River.
- A slight petroleum sheen was detected in monitoring well MW-1 and MW-11.
- The groundwater sampling results revealed no detectable concentrations of any analyzed parameters at MW-4, located directly downgradient of MW-1 and MW-11.

A copy of the analytical report is provided as **Attachment B**. Data tables summarizing historical groundwater data are included as **Attachment C**.

Conclusions & Recommendations

On October 8, 2020 annual monitoring well gauging and sampling was conducted at the BLP – Diesel Power Plant. Based on the findings from this sampling event, no significant changes were observed regarding the existing plume or groundwater conditions.

MW-8 could not be located, however, SWL readings have been consistent with all previous sampling events and groundwater flow direction appears to be unchanged, therefore this not a concern for this reporting period. The missing well will be located and measured during the next sampling event. No adverse environmental conditions were observed in the remaining monitoring wells gauged during this monitoring event.

The analytical results from the sample collected from MW-4 were absent of COV's and SVOC's which meets the Part 201 Generic Cleanup Criteria. In 2019, 2-Methylnaphthalene was detected in MW-4. No 2-Mehylnaphthalene was detected in the 2020 sample showing 2019 concentrations were an anomaly. This will continue to be monitored.

The BLP will continue to periodically evaluate the condition of monitoring wells MW-1 and MW-11 and continue to conduct annual groundwater monitoring and reporting activities as previously arranged with the EGLE.

Please contact me with any questions, comments, or concerns regarding this information.

Sincerely,

Lakeshore Environmental, Inc.



Environmental Project Scientist

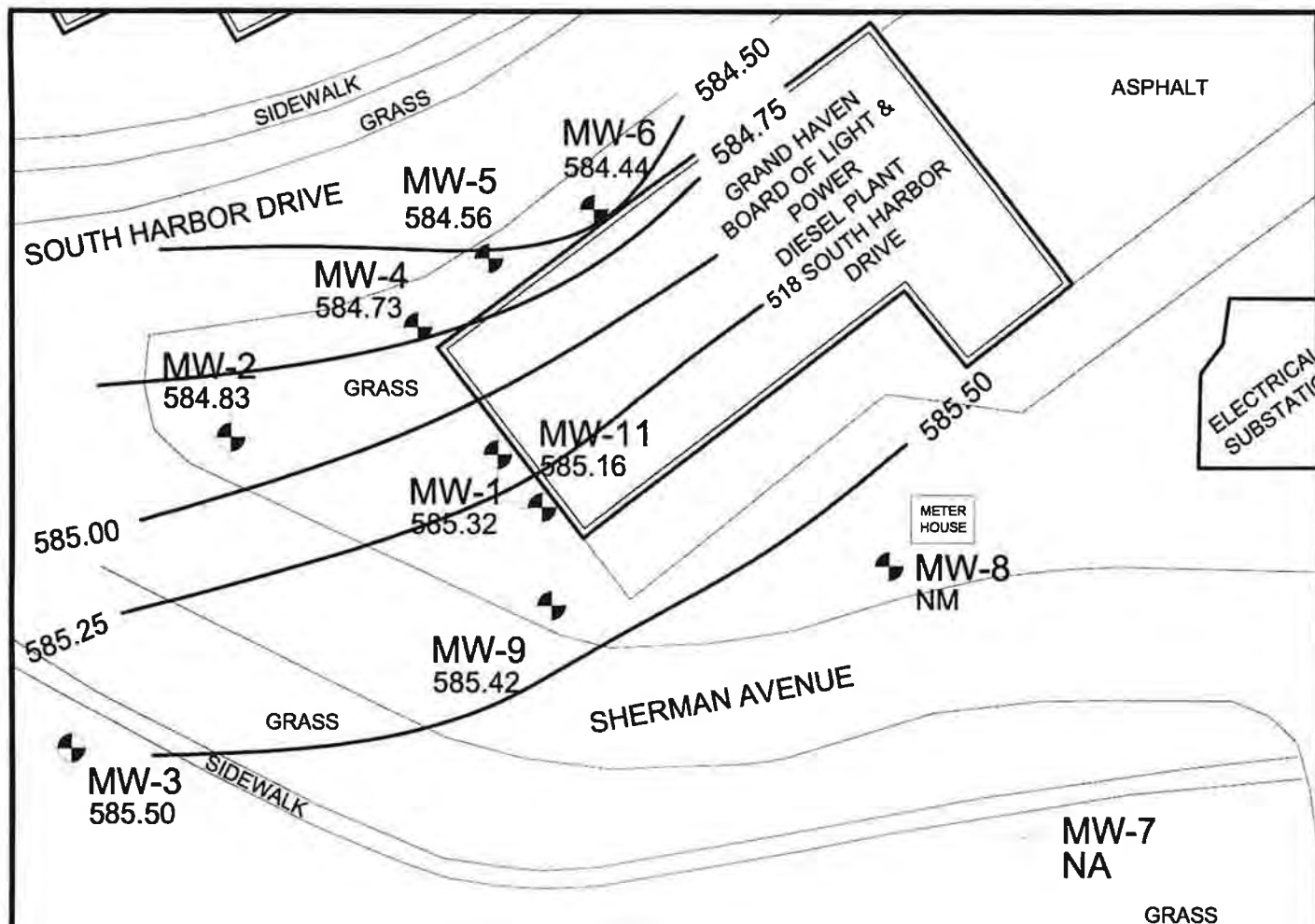
matthewa@my-lei.com

Attachments: A: Figure
B: Analytical Report
C: Groundwater Data Summary

Cc: Paul Cederquist - Grand Haven Board of Light and Power (email: PCederquist@ghblp.org)
Erin Gerber - LEI (e-mail: ering@my-lei.com)
File – LEI (07-113-12 /ck: KJD/ERG)

Attachment A: Figure

Figure 1 - Groundwater Elevation Contour Map



SKATE PARK

MW-10

MONITORING WELL INFORMATION- October 8, 2020					
WELL #	TOP OF CASING	STATIC WATER LEVEL (SWL)	GROUNDWATER ELEVATION	SCREEN INTERVAL	CONSTRUCTION DATE/MATERIAL
MW-1	598.22	12.90	585.32	10-15'	2005/PVC
MW-2	596.99	12.16	584.83	17.5-22.5'	2/GALVANIZED
MW-3	606.49	20.99	585.50	25-30'	2/PVC
MW-4	591.29	6.56	584.73	7-12'	2005/PVC
MW-5	590.89	6.33	584.56	5.5-10.5'	2006/PVC
MW-6	590.35	5.86	584.44	5.5-10.5'	2006/PVC
MW-7	614.86	NA	NA	30-35'	2006/PVC
MW-8	607.83	NM	NM	23-28'	2006/PVC
MW-9	601.14	15.72	585.42	15.5-20.5'	2006/PVC
MW-10	615.17	NA	NA	30-35'	2006/PVC
MW-11	594.01	8.85	585.16	10-14'	2007/PVC

LEGEND



MONITORING WELL LOCATION

NM

NOT MEASURED



GROUNDWATER ELEVATION CONTOUR

ABANDONED

0 50' 100'



SCALE: 1" = 50'



Lakeshore
Environmental, Inc.

Scientists | Engineers | Planners

GROUNDWATER ELEVATION CONTOUR MAP

GRAND HAVEN BOARD OF LIGHT AND POWER
518 SOUTH HARBOR DRIVE, GRAND HAVEN, MI

JOB 07-113-12

November 2020

FIGURE 1

2020 Annual Monitoring Well Sampling Report
Attn: Darlene Pearson, EGLE

Attachments
December 7, 2020

Attachment B: Analytical Report

Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673



231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

October 21, 2020

Mrs. Erin Gerber
Lakeshore Environmental, Inc.
803 Verhoeks Street
Grand Haven, MI 49417

Phone: (616) 414-9582

Fax: (616) 844-5053

RE: Trace Project 20J0293
Client Project GHBLP 07-113-01

Dear Mrs. Gerber:

Enclosed are your analytical results. The results of this report relate only to the samples listed in the body of this report.

All reports were examined through Trace's validation process to ensure that requirements for quality and completeness were satisfied. All reported analytical results were obtained in accordance with the methods referenced on the reports. Every practical effort was made to meet the reporting limit specifications for this work, however, some results may have raised reporting limits to correct for percent solids.

For clients that require NELAP Accreditation, Trace certifies that these test results meet all requirements of the NELAP Standard, except for those analytes with a "N" notation. These analytes have not been evaluated by NELAP at Trace's discretion and will not be reported unless requested by client.

If you have questions concerning this report, please contact me at 231.773.5998 or by email at jmink@trace-labs.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Jon Mink", written over a horizontal line.

Jon Mink
Senior Project Manager
Enclosures



NJDEP Accreditation No. MI008

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Muskegon, MI 49444-2673



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SAMPLE SUMMARY

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID	Sample ID	Matrix	Collected By	Date Collected	Date Received
20J0293-01	MW-4	Water	gos	10/08/20 11:00	10/08/20 13:16

CERTIFICATE OF ANALYSIS

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AN EXPLANATION OF TERMS AND SYMBOLS WHICH MAY OCCUR IN THIS REPORT

DEFINITIONS

LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
RPD	Relative Percent Difference
DUP	Matrix Duplicate
RDL	Reporting Detection Limit
MCL	Maximum Contamination Limit
TIC	Tentatively Identified Compound
<, ND or U	Indicates the compound was analyzed for but not detected
*	Indicates a result that exceeds its associated MCL or Surrogate control limits
N	Indicates that the laboratory is not accredited by NELAP for this compound
NA	Indicates that the compound is not available.

NOTE: Samples for volatiles that have been extracted with a water miscible solvent were corrected for the total volume of the solvent/water mixture.
Solid matrices Method Blanks are at 100% solids as such results are the same wet or dry.

DATA QUALIFIERS

Trace ID: T103314-BS1

Analysis: EPA 8270D

1,2,4-Trichlorobenzene	Note 105 : The LCS recovery was out of control low. The result and reporting limit for this analyte, in this quality control batch, must be considered estimated.
2,4-Dinitrotoluene	Note 105 : The LCS recovery was out of control low. The result and reporting limit for this analyte, in this quality control batch, must be considered estimated.
4-Chloro-3-methylphenol	Note 105 : The LCS recovery was out of control low. The result and reporting limit for this analyte, in this quality control batch, must be considered estimated.
4-Nitrophenol	Note 105 : The LCS recovery was out of control low. The result and reporting limit for this analyte, in this quality control batch, must be considered estimated.
Pentachlorophenol	Note 105 : The LCS recovery was out of control low. The result and reporting limit for this analyte, in this quality control batch, must be considered estimated.

Trace ID: T103437-BLK1

Analysis: EPA 8270D

2,4,6-Tribromophenol	Note 312 : The surrogate recovery was out of control high when compared to control limits. As there are no positive results, no data require qualification.

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Analysis Method: EPA 8270D									
Batch: T103314									
Bis(2-chloroethyl)ether	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Bis(2-chloroethyl)ether	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
2-Chlorophenol	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
2-Chlorophenol	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
Phenol	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Phenol	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
1,3-Dichlorobenzene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
1,3-Dichlorobenzene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
1,4-Dichlorobenzene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
1,4-Dichlorobenzene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
1,2-Dichlorobenzene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
1,2-Dichlorobenzene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Benzyl alcohol	<50 ug/L	50	1	10/13/20	kbc	10/13/20	av		
Benzyl alcohol	<50 ug/L	50	1	10/15/20	kbc	10/20/20	av		
Bis(2-chloroisopropyl)ether	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Bis(2-chloroisopropyl)ether	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2-Methylphenol (o-Cresol)	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
2-Methylphenol (o-Cresol)	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
3,4-Methylphenol (m,p Cresol)	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
3,4-Methylphenol (m,p Cresol)	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
N-Nitrosodi-n-propylamine	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
N-Nitrosodi-n-propylamine	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Hexachloroethane	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Hexachloroethane	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Nitrobenzene	<3.0 ug/L	3.0	1	10/13/20	kbc	10/13/20	av		
Nitrobenzene	<3.0 ug/L	3.0	1	10/15/20	kbc	10/20/20	av		
Isophorone	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Isophorone	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2-Nitrophenol	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2-Nitrophenol	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2,4-Dimethylphenol	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2,4-Dimethylphenol	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Bis(2-chloroethoxy)methane	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Bis(2-chloroethoxy)methane	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Benzoic acid	<50 ug/L	50	1	10/13/20	kbc	10/13/20	av		
Benzoic acid	<50 ug/L	50	1	10/15/20	kbc	10/20/20	av		
1,2,4-Trichlorobenzene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
1,2,4-Trichlorobenzene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2,4-Dichlorophenol	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
2,4-Dichlorophenol	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
Naphthalene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Naphthalene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Chloroaniline	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
4-Chloroaniline	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
Hexachlorobutadiene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Hexachlorobutadiene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Chloro-3-methylphenol	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
4-Chloro-3-methylphenol	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2-Methylnaphthalene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2-Methylnaphthalene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Hexachlorocyclopentadiene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Hexachlorocyclopentadiene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2,4,6-Trichlorophenol	<4.0 ug/L	4.0	1	10/13/20	kbc	10/13/20	av		
2,4,6-Trichlorophenol	<4.0 ug/L	4.0	1	10/15/20	kbc	10/20/20	av		
2,4,5-Trichlorophenol	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2,4,5-Trichlorophenol	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2-Chloronaphthalene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2-Chloronaphthalene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2-Nitroaniline	<25 ug/L	25	1	10/13/20	kbc	10/13/20	av		
2-Nitroaniline	<25 ug/L	25	1	10/15/20	kbc	10/20/20	av		
Dimethyl phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Dimethyl phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Acenaphthylene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Acenaphthylene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
2,6-Dinitrotoluene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		

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Muskegon, MI 49444-2673



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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
2,6-Dinitrotoluene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
3-Nitroaniline	<25 ug/L	25	1	10/13/20	kbc	10/13/20	av		
3-Nitroaniline	<25 ug/L	25	1	10/15/20	kbc	10/20/20	av		
Acenaphthene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Acenaphthene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Dibenzofuran	<4.0 ug/L	4.0	1	10/13/20	kbc	10/13/20	av		
Dibenzofuran	<4.0 ug/L	4.0	1	10/15/20	kbc	10/20/20	av		
2,4-Dinitrotoluene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
2,4-Dinitrotoluene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Nitrophenol	<25 ug/L	25	1	10/13/20	kbc	10/13/20	av		
4-Nitrophenol	<25 ug/L	25	1	10/15/20	kbc	10/20/20	av		
2,4-Dinitrophenol	<25 ug/L	25	1	10/13/20	kbc	10/13/20	av		
2,4-Dinitrophenol	<25 ug/L	25	1	10/15/20	kbc	10/20/20	av		
Diethyl phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Diethyl phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Fluorene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Fluorene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Chlorophenyl phenyl ether	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
4-Chlorophenyl phenyl ether	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Nitroaniline	<25 ug/L	25	1	10/13/20	kbc	10/13/20	av		
4-Nitroaniline	<25 ug/L	25	1	10/15/20	kbc	10/20/20	av		
4,6-Dinitro-2-methylphenol	<20 ug/L	20	1	10/13/20	kbc	10/13/20	av		
4,6-Dinitro-2-methylphenol	<20 ug/L	20	1	10/15/20	kbc	10/20/20	av		
N-Nitrosodiphenylamine	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
N-Nitrosodiphenylamine	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
4-Bromophenyl phenyl ether	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
4-Bromophenyl phenyl ether	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Hexachlorobenzene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Hexachlorobenzene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Pentachlorophenol	<20 ug/L	20	1	10/13/20	kbc	10/13/20	av		
Pentachlorophenol	<20 ug/L	20	1	10/15/20	kbc	10/20/20	av		
Phenanthrene	<2.0 ug/L	2.0	1	10/13/20	kbc	10/13/20	av		
Phenanthrene	<2.0 ug/L	2.0	1	10/15/20	kbc	10/20/20	av		

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Anthracene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Anthracene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Carbazole	<10 ug/L	10	1	10/13/20	kbc	10/13/20	av		
Carbazole	<10 ug/L	10	1	10/15/20	kbc	10/20/20	av		
Di-n-butyl phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Di-n-butyl phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Fluoranthene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Fluoranthene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Pyrene	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Pyrene	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Butyl benzyl phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av	N	
Butyl benzyl phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av	N	
Benzo (a) anthracene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Benzo (a) anthracene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Chrysene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Chrysene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
3,3'-Dichlorobenzidine	<20 ug/L	20	1	10/13/20	kbc	10/13/20	av	N	
3,3'-Dichlorobenzidine	<20 ug/L	20	1	10/15/20	kbc	10/20/20	av	N	
Bis(2-ethylhexyl)phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Bis(2-ethylhexyl)phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Di-n-octyl phthalate	<5.0 ug/L	5.0	1	10/13/20	kbc	10/13/20	av		
Di-n-octyl phthalate	<5.0 ug/L	5.0	1	10/15/20	kbc	10/20/20	av		
Benzo (b) fluoranthene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Benzo (b) fluoranthene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Benzo (k) fluoranthene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Benzo (k) fluoranthene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Benzo (a) pyrene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		
Benzo (a) pyrene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Indeno (1,2,3-cd) pyrene	<2.0 ug/L	2.0	1	10/13/20	kbc	10/13/20	av		
Indeno (1,2,3-cd) pyrene	<2.0 ug/L	2.0	1	10/15/20	kbc	10/20/20	av		
Dibenz (a,h) anthracene	<2.0 ug/L	2.0	1	10/13/20	kbc	10/13/20	av		
Dibenz (a,h) anthracene	<2.0 ug/L	2.0	1	10/15/20	kbc	10/20/20	av		
Benzo (g,h,i) perylene	<1.0 ug/L	1.0	1	10/13/20	kbc	10/13/20	av		

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
SEMI-VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Benzo (g,h,i) perylene	<1.0 ug/L	1.0	1	10/15/20	kbc	10/20/20	av		
Surrogates:									
2-Fluorophenol	23 %	20-53	1	10/13/20	kbc	10/13/20	av		
2-Fluorophenol	35 %	20-53	1	10/15/20	kbc	10/20/20	av		
Phenol-d5	13 %	11-40	1	10/13/20	kbc	10/13/20	av		
Phenol-d5	22 %	11-40	1	10/15/20	kbc	10/20/20	av		
Nitrobenzene-d5	53 %	36-103	1	10/13/20	kbc	10/13/20	av		
Nitrobenzene-d5	70 %	36-103	1	10/15/20	kbc	10/20/20	av		
2-Fluorobiphenyl	54 %	36-119	1	10/13/20	kbc	10/13/20	av		
2-Fluorobiphenyl	67 %	36-119	1	10/15/20	kbc	10/20/20	av		
2,4,6-Tribromophenol	74 %	30-105	1	10/13/20	kbc	10/13/20	av		
2,4,6-Tribromophenol	88 %	30-105	1	10/15/20	kbc	10/20/20	av		
Terphenyl-d14	52 %	37-109	1	10/13/20	kbc	10/13/20	av		
Terphenyl-d14	71 %	37-109	1	10/15/20	kbc	10/20/20	av		

VOLATILE ORGANIC COMPOUNDS BY GC-MS

Analysis Method: EPA 8260C

Batch: T103228

Dichlorodifluoromethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Chloromethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Vinyl chloride	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Bromomethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Chloroethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Trichlorofluoromethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Diethyl ether	<10 ug/L	10	1	10/09/20	bag	10/09/20	bag	N	
Tert-butyl alcohol	<50 ug/L	50	1	10/09/20	bag	10/09/20	bag	N	
1,1-Dichloroethene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Acetone	<50 ug/L	50	1	10/09/20	bag	10/09/20	bag		
Iodomethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		N
Carbon disulfide	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Methyl-tert-butyl ether	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Methylene chloride	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Acrylonitrile	<2.0 ug/L	2.0	1	10/09/20	bag	10/09/20	bag		

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
trans-1,2-Dichloroethene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,1-Dichloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Diisopropyl Ether	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
2-Butanone	<25 ug/L	25	1	10/09/20	bag	10/09/20	bag		
cis-1,2-Dichloroethene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
t-Butyl Ethyl Ether	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
Bromochloromethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Tetrahydrofuran	<90 ug/L	90	1	10/09/20	bag	10/09/20	bag	N	
Chloroform	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,1,1-Trichloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Carbon tetrachloride	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Benzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
t-Amyl Methyl Ether	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
1,2-Dichloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Cyclohexane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
Trichloroethene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2-Dichloropropane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Dibromomethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Bromodichloromethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
cis-1,3-Dichloropropene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
4-Methyl-2-pentanone	<50 ug/L	50	1	10/09/20	bag	10/09/20	bag		
Toluene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
trans-1,3-Dichloropropene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,1,2-Trichloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Tetrachloroethene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
2-Hexanone	<50 ug/L	50	1	10/09/20	bag	10/09/20	bag		
Dibromochloromethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
1,2-Dibromoethane (EDB)	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Chlorobenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,1,1,2-Tetrachloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Ethylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
m,p-Xylene	<2.0 ug/L	2.0	1	10/09/20	bag	10/09/20	bag	N	
o-Xylene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag	N	

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ANALYTICAL RESULTS

Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

Trace ID: 20J0293-01 Matrix: Water Date Collected: 10/08/20 11:00
Sample ID: MW-4 Date Received: 10/08/20 13:16

PARAMETERS	RESULTS UNITS	RDL	DILUTION	PREPARED	BY	ANALYZED	BY	NOTES	MCL
VOLATILE ORGANIC COMPOUNDS BY GC-MS									
Xylenes, total	<3.0 ug/L	3.0	1	10/09/20	bag	10/09/20	bag		
Styrene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Bromoform	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Isopropylbenzene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
1,1,2,2-Tetrachloroethane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2,3-Trichloropropane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
trans-1,4-Dichloro-2-butene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Bromobenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
n-Propylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,3,5-Trimethylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
t-Butyl Benzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2,4-Trimethylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
sec-Butylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
p-Isopropyltoluene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
1,3-Dichlorobenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,4-Dichlorobenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
n-Butylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2,3-Trimethylbenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2-Dichlorobenzene	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
1,2-Dibromo-3-chloropropane	<1.0 ug/L	1.0	1	10/09/20	bag	10/09/20	bag		
Hexachloroethane	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
1,2,4-Trichlorobenzene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
Naphthalene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
1,2,3-Trichlorobenzene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag		
2-Methylnaphthalene	<5.0 ug/L	5.0	1	10/09/20	bag	10/09/20	bag	N	
Surrogates:									
1,2-Dichloroethane-d4	82 %	68-133	1	10/09/20	bag	10/09/20	bag		
Toluene-d8	104 %	75-120	1	10/09/20	bag	10/09/20	bag		
4-Bromofluorobenzene	104 %	69-119	1	10/09/20	bag	10/09/20	bag		
1,2-Dichlorobenzene-d4	104 %	72-127	1	10/09/20	bag	10/09/20	bag		

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QUALITY CONTROL RESULTS

Trace Project ID: 20J0293

Client Project ID: GHBLP 07-113-01

QC Batch: T103314

Analysis Description: Semi-volatiles, TCL list

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr

Analysis Method: EPA 8270D

METHOD BLANK: T103314-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-chloroethyl)ether	ug/L	<1.0	1.0	
2-Chlorophenol	ug/L	<10	10	
Phenol	ug/L	<5.0	5.0	
1,3-Dichlorobenzene	ug/L	<5.0	5.0	
1,4-Dichlorobenzene	ug/L	<5.0	5.0	
1,2-Dichlorobenzene	ug/L	<5.0	5.0	
Benzyl alcohol	ug/L	<50	50	
Bis(2-chloroisopropyl)ether	ug/L	<5.0	5.0	
2-Methylphenol (o-Cresol)	ug/L	<10	10	
3,4-Methylphenol (m,p Cresol)	ug/L	<10	10	
N-Nitrosodi-n-propylamine	ug/L	<5.0	5.0	
Hexachloroethane	ug/L	<5.0	5.0	
Nitrobenzene	ug/L	<3.0	3.0	
Isophorone	ug/L	<5.0	5.0	
2-Nitrophenol	ug/L	<5.0	5.0	
2,4-Dimethylphenol	ug/L	<5.0	5.0	
Bis(2-chloroethoxy)methane	ug/L	<5.0	5.0	
Benzoic acid	ug/L	<50	50	
1,2,4-Trichlorobenzene	ug/L	<5.0	5.0	
2,4-Dichlorophenol	ug/L	<10	10	
Naphthalene	ug/L	<5.0	5.0	
4-Chloroaniline	ug/L	<10	10	
Hexachlorobutadiene	ug/L	<5.0	5.0	
4-Chloro-3-methylphenol	ug/L	<5.0	5.0	
2-Methylnaphthalene	ug/L	<5.0	5.0	
Hexachlorocyclopentadiene	ug/L	<5.0	5.0	
2,4,6-Trichlorophenol	ug/L	<4.0	4.0	
2,4,5-Trichlorophenol	ug/L	<5.0	5.0	
2-Chloronaphthalene	ug/L	<5.0	5.0	
2-Nitroaniline	ug/L	<25	25	
Dimethyl phthalate	ug/L	<5.0	5.0	
Acenaphthylene	ug/L	<5.0	5.0	
2,6-Dinitrotoluene	ug/L	<5.0	5.0	
3-Nitroaniline	ug/L	<25	25	
Acenaphthene	ug/L	<5.0	5.0	
Dibenzofuran	ug/L	<4.0	4.0	
2,4-Dinitrotoluene	ug/L	<5.0	5.0	

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METHOD BLANK: T103314-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
4-Nitrophenol	ug/L	<25	25	
2,4-Dinitrophenol	ug/L	<25	25	
Diethyl phthalate	ug/L	<5.0	5.0	
Fluorene	ug/L	<5.0	5.0	
4-Chlorophenyl phenyl ether	ug/L	<5.0	5.0	
4-Nitroaniline	ug/L	<25	25	
4,6-Dinitro-2-methylphenol	ug/L	<20	20	
N-Nitrosodiphenylamine	ug/L	<5.0	5.0	
4-Bromophenyl phenyl ether	ug/L	<5.0	5.0	
Hexachlorobenzene	ug/L	<5.0	5.0	
Pentachlorophenol	ug/L	<20	20	
Phenanthrene	ug/L	<2.0	2.0	
Anthracene	ug/L	<5.0	5.0	
Carbazole	ug/L	<10	10	
Di-n-butyl phthalate	ug/L	<5.0	5.0	
Fluoranthene	ug/L	<1.0	1.0	
Pyrene	ug/L	<5.0	5.0	
Butyl benzyl phthalate	ug/L	<5.0	5.0	
Benzo (a) anthracene	ug/L	<1.0	1.0	
Chrysene	ug/L	<1.0	1.0	
3,3'-Dichlorobenzidine	ug/L	<20	20	
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Di-n-octyl phthalate	ug/L	<5.0	5.0	
Benzo (b) fluoranthene	ug/L	<1.0	1.0	
Benzo (k) fluoranthene	ug/L	<1.0	1.0	
Benzo (a) pyrene	ug/L	<1.0	1.0	
Indeno (1,2,3-cd) pyrene	ug/L	<2.0	2.0	
Dibenz (a,h) anthracene	ug/L	<2.0	2.0	
Benzo (g,h,i) perylene	ug/L	<1.0	1.0	
2-Fluorophenol (S)	%	47	20-53	
Phenol-d5 (S)	%	29	11-40	
Nitrobenzene-d5 (S)	%	77	36-103	
2-Fluorobiphenyl (S)	%	78	36-119	
2,4,6-Tribromophenol (S)	%	97	30-105	
Terphenyl-d14 (S)	%	101	37-109	

METHOD BLANK: T103314-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-chloroethyl)ether	ug/L	<10	10	
2-Chlorophenol	ug/L	<30	30	
Phenol	ug/L	<25	25	
1,3-Dichlorobenzene	ug/L	<25	25	
1,4-Dichlorobenzene	ug/L	<25	25	

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METHOD BLANK: T103314-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
1,2-Dichlorobenzene	ug/L	<25	25	
Benzyl alcohol	ug/L	<70	70	
Bis(2-chloroisopropyl)ether	ug/L	<25	25	
2-Methylphenol (o-Cresol)	ug/L	<25	25	
3,4-Methylphenol (m,p Cresol)	ug/L	<25	25	
N-Nitrosodi-n-propylamine	ug/L	<25	25	
Hexachloroethane	ug/L	<25	25	
Nitrobenzene	ug/L	<10	10	
Isophorone	ug/L	<25	25	
2-Nitrophenol	ug/L	<30	30	
2,4-Dimethylphenol	ug/L	<30	30	
Bis(2-chloroethoxy)methane	ug/L	<25	25	
Benzoic acid	ug/L	<500	500	
1,2,4-Trichlorobenzene	ug/L	<25	25	
2,4-Dichlorophenol	ug/L	<35	35	
Naphthalene	ug/L	<25	25	
4-Chloroaniline	ug/L	<80	80	
Hexachlorobutadiene	ug/L	<25	25	
4-Chloro-3-methylphenol	ug/L	<35	35	
2-Methylnaphthalene	ug/L	<25	25	
Hexachlorocyclopentadiene	ug/L	<50	50	
2,4,6-Trichlorophenol	ug/L	<35	35	
2,4,5-Trichlorophenol	ug/L	<25	25	
2-Chloronaphthalene	ug/L	<25	25	
2-Nitroaniline	ug/L	<90	90	
Dimethyl phthalate	ug/L	<25	25	
Acenaphthylene	ug/L	<25	25	
2,6-Dinitrotoluene	ug/L	<25	25	
3-Nitroaniline	ug/L	<80	80	
Acenaphthene	ug/L	<25	25	
Dibenzofuran	ug/L	<25	25	
2,4-Dinitrotoluene	ug/L	<25	25	
4-Nitrophenol	ug/L	<200	200	
2,4-Dinitrophenol	ug/L	<200	200	
Diethyl phthalate	ug/L	<25	25	
Fluorene	ug/L	<25	25	
4-Chlorophenyl phenyl ether	ug/L	<25	25	
4-Nitroaniline	ug/L	<80	80	
4,6-Dinitro-2-methylphenol	ug/L	<80	80	
N-Nitrosodiphenylamine	ug/L	<25	25	
4-Bromophenyl phenyl ether	ug/L	<25	25	
Hexachlorobenzene	ug/L	<25	25	
Pentachlorophenol	ug/L	<100	100	
Phenanthrene	ug/L	<10	10	

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METHOD BLANK: T103314-BLK2

Parameter	Units	Blank Result	Reporting Limit	Notes
Anthracene	ug/L	<25	25	
Carbazole	ug/L	<25	25	
Di-n-butyl phthalate	ug/L	<25	25	
Fluoranthene	ug/L	<10	10	
Pyrene	ug/L	<25	25	
Butyl benzyl phthalate	ug/L	<25	25	
Benzo (a) anthracene	ug/L	<10	10	
Chrysene	ug/L	<10	10	
3,3'-Dichlorobenzidine	ug/L	<100	100	
Bis(2-ethylhexyl)phthalate	ug/L	<25	25	
Di-n-octyl phthalate	ug/L	<25	25	
Benzo (b) fluoranthene	ug/L	<10	10	
Benzo (k) fluoranthene	ug/L	<10	10	
Benzo (a) pyrene	ug/L	<10	10	
Indeno (1,2,3-cd) pyrene	ug/L	<10	10	
Dibenz (a,h) anthracene	ug/L	<10	10	
Benzo (g,h,i) perylene	ug/L	<10	10	
2-Fluorophenol (S)	%	39	20-53	
Phenol-d5 (S)	%	22	11-40	
Nitrobenzene-d5 (S)	%	69	36-103	
2-Fluorobiphenyl (S)	%	66	36-119	
2,4,6-Tribromophenol (S)	%	82	30-105	
Terphenyl-d14 (S)	%	86	37-109	

LABORATORY CONTROL SAMPLE: T103314-BS1

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limit	Notes
2-Chlorophenol	ug/L	100	42.9	43	41-89	
Phenol	ug/L	102	13.8	14	13-39	
1,4-Dichlorobenzene	ug/L	50.5	22.0	44	39-78	
N-Nitrosodi-n-propylamine	ug/L	50.5	25.1	50	45-101	
1,2,4-Trichlorobenzene	ug/L	51.0	14.9	29	34-94	105
4-Chloro-3-methylphenol	ug/L	102	35.6	35	45-93	105
Acenaphthene	ug/L	52.0	24.5	47	42-105	
2,4-Dinitrotoluene	ug/L	50.5	18.1	36	39-105	105
4-Nitrophenol	ug/L	100	<		11-40	105
Pentachlorophenol	ug/L	101	35.0	35	51-123	105
Pyrene	ug/L	50.5	27.1	54	47-116	
2-Fluorophenol (S)	%	102	24.4	24	20-53	
Phenol-d5 (S)	%	102	13.6	13	11-40	
Nitrobenzene-d5 (S)	%	102	43.0	42	36-103	
2-Fluorobiphenyl (S)	%	100	42.7	43	36-119	

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LABORATORY CONTROL SAMPLE: T103314-BS1

Parameter	Units	Spike Conc	LCS Result	LCS % Rec	% Rec Limit	Notes
2,4,6-Tribromophenol (S)	%	101	56.0	55	30-105	
Terphenyl-d14 (S)	%	100	57.8	58	37-109	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T103314-MSD1

Original: 20J0293-01

Parameter	Units	Original Result	Spike Conc	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
2-Chlorophenol	ug/L	0	95.6	60.1	61.9	62	65	39-78	4	28	
Phenol	ug/L	0	97.5	16.9	18.8	17	19	10-37	12	28	
1,4-Dichlorobenzene	ug/L	0	48.3	32.0	32.6	65	67	31-83	3	27	
N-Nitrosodi-n-propylamine	ug/L	0	48.3	39.9	41.9	81	87	44-93	7	30	
1,2,4-Trichlorobenzene	ug/L	0	48.8	23.3	25.0	47	51	35-88	9	28	
4-Chloro-3-methylphenol	ug/L	0	97.5	51.7	57.3	52	59	32-92	12	21	
Acenaphthene	ug/L	0	49.7	36.1	39.5	71	79	44-106	11	22	
2,4-Dinitrotoluene	ug/L	0	48.3	27.5	30.0	56	62	28-106	10	24	
4-Nitrophenol	ug/L	0	95.6	35.5	29.8	36	31	12-47	16	31	
Pentachlorophenol	ug/L	0	96.6	78.8	79.4	78	82	30-109	5	23	
Pyrene	ug/L	0	48.3	34.5	37.5	70	78	55-113	10	24	
2-Fluorophenol (S)	%		97.5	27.6	28.2	28	29	20-53			
Phenol-d5 (S)	%		97.5	15.5	17.1	16	18	11-40			
Nitrobenzene-d5 (S)	%		97.5	61.9	63.5	62	65	36-103			
2-Fluorobiphenyl (S)	%		95.6	60.9	62.5	63	65	36-119			
2,4,6-Tribromophenol (S)	%		96.6	86.5	86.7	88	90	30-105			
Terphenyl-d14 (S)	%		95.6	60.5	66.9	62	70	37-109			

Trace Project ID: 20J0293

Client Project ID: GHBLP 07-113-01

QC Batch: T103437

Analysis Description: Semi-volatiles, TCL list

QC Batch Method: EPA 3510C Separatory Funnel
Liquid-Liquid Extr

Analysis Method: EPA 8270D

METHOD BLANK: T103437-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Bis(2-chloroethyl)ether	ug/L	<1.0	1.0	
2-Chlorophenol	ug/L	<10	10	
Phenol	ug/L	<5.0	5.0	
1,3-Dichlorobenzene	ug/L	<5.0	5.0	
1,4-Dichlorobenzene	ug/L	<5.0	5.0	
1,2-Dichlorobenzene	ug/L	<5.0	5.0	
Benzyl alcohol	ug/L	<50	50	
Bis(2-chloroisopropyl)ether	ug/L	<5.0	5.0	

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METHOD BLANK: T103437-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
2-Methylphenol (o-Cresol)	ug/L	<10	10	
3,4-Methylphenol (m,p Cresol)	ug/L	<10	10	
N-Nitrosodi-n-propylamine	ug/L	<5.0	5.0	
Hexachloroethane	ug/L	<5.0	5.0	
Nitrobenzene	ug/L	<3.0	3.0	
Isophorone	ug/L	<5.0	5.0	
2-Nitrophenol	ug/L	<5.0	5.0	
2,4-Dimethylphenol	ug/L	<5.0	5.0	
Bis(2-chloroethoxy)methane	ug/L	<5.0	5.0	
Benzoic acid	ug/L	<50	50	
1,2,4-Trichlorobenzene	ug/L	<5.0	5.0	
2,4-Dichlorophenol	ug/L	<10	10	
Naphthalene	ug/L	<5.0	5.0	
4-Chloroaniline	ug/L	<10	10	
Hexachlorobutadiene	ug/L	<5.0	5.0	
4-Chloro-3-methylphenol	ug/L	<5.0	5.0	
2-Methylnaphthalene	ug/L	<5.0	5.0	
Hexachlorocyclopentadiene	ug/L	<5.0	5.0	
2,4,6-Trichlorophenol	ug/L	<4.0	4.0	
2,4,5-Trichlorophenol	ug/L	<5.0	5.0	
2-Chloronaphthalene	ug/L	<5.0	5.0	
2-Nitroaniline	ug/L	<25	25	
Dimethyl phthalate	ug/L	<5.0	5.0	
Acenaphthylene	ug/L	<5.0	5.0	
2,6-Dinitrotoluene	ug/L	<5.0	5.0	
3-Nitroaniline	ug/L	<25	25	
Acenaphthene	ug/L	<5.0	5.0	
Dibenzofuran	ug/L	<4.0	4.0	
2,4-Dinitrotoluene	ug/L	<5.0	5.0	
4-Nitrophenol	ug/L	<25	25	
2,4-Dinitrophenol	ug/L	<25	25	
Diethyl phthalate	ug/L	<5.0	5.0	
Fluorene	ug/L	<5.0	5.0	
4-Chlorophenyl phenyl ether	ug/L	<5.0	5.0	
4-Nitroaniline	ug/L	<25	25	
4,6-Dinitro-2-methylphenol	ug/L	<20	20	
N-Nitrosodiphenylamine	ug/L	<5.0	5.0	
4-Bromophenyl phenyl ether	ug/L	<5.0	5.0	
Hexachlorobenzene	ug/L	<5.0	5.0	
Pentachlorophenol	ug/L	<20	20	
Phenanthrene	ug/L	<2.0	2.0	
Anthracene	ug/L	<5.0	5.0	
Carbazole	ug/L	<10	10	
Di-n-butyl phthalate	ug/L	<5.0	5.0	

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METHOD BLANK: T103437-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Fluoranthene	ug/L	<1.0	1.0	
Pyrene	ug/L	<5.0	5.0	
Butyl benzyl phthalate	ug/L	<5.0	5.0	
Benzo (a) anthracene	ug/L	<1.0	1.0	
Chrysene	ug/L	<1.0	1.0	
3,3'-Dichlorobenzidine	ug/L	<20	20	
Bis(2-ethylhexyl)phthalate	ug/L	<5.0	5.0	
Di-n-octyl phthalate	ug/L	<5.0	5.0	
Benzo (b) fluoranthene	ug/L	<1.0	1.0	
Benzo (k) fluoranthene	ug/L	<1.0	1.0	
Benzo (a) pyrene	ug/L	<1.0	1.0	
Indeno (1,2,3-cd) pyrene	ug/L	<2.0	2.0	
Dibenz (a,h) anthracene	ug/L	<2.0	2.0	
Benzo (g,h,i) perylene	ug/L	<1.0	1.0	
2-Fluorophenol (S)	%	43	20-53	
Phenol-d5 (S)	%	28	11-40	
Nitrobenzene-d5 (S)	%	77	36-103	
2-Fluorobiphenyl (S)	%	78	36-119	
2,4,6-Tribromophenol (S)	%	106	30-105	312
Terphenyl-d14 (S)	%	92	37-109	

LABORATORY CONTROL SAMPLE: T103437-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
2-Chlorophenol	ug/L	100	60.6	61	41-89	
Phenol	ug/L	102	21.0	21	13-39	
1,4-Dichlorobenzene	ug/L	50.5	29.5	58	39-78	
N-Nitrosodi-n-propylamine	ug/L	50.5	37.2	74	45-101	
1,2,4-Trichlorobenzene	ug/L	51.0	23.6	46	34-94	
4-Chloro-3-methylphenol	ug/L	102	51.1	50	45-93	
Acenaphthene	ug/L	52.0	34.0	65	42-105	
2,4-Dinitrotoluene	ug/L	50.5	27.4	54	39-105	
4-Nitrophenol	ug/L	100	<25	11	11-40	
Pentachlorophenol	ug/L	101	54.2	54	51-123	
Pyrene	ug/L	50.5	33.0	65	47-116	
2-Fluorophenol (S)	%	102	34.8	34	20-53	
Phenol-d5 (S)	%	102	22.7	22	11-40	
Nitrobenzene-d5 (S)	%	102	64.6	63	36-103	
2-Fluorobiphenyl (S)	%	100	61.9	62	36-119	
2,4,6-Tribromophenol (S)	%	101	76.1	75	30-105	
Terphenyl-d14 (S)	%	100	70.2	70	37-109	

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Trace Project ID: 20J0293
Client Project ID: GHBLP 07-113-01

QC Batch: T103228
QC Batch Method: EPA 8260C

Analysis Description: Volatiles, Full MDEQ+ List
Analysis Method: EPA 8260C

METHOD BLANK: T103228-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
Dichlorodifluoromethane	ug/L	<5.0	5.0	
Chloromethane	ug/L	<5.0	5.0	
Vinyl chloride	ug/L	<1.0	1.0	
Bromomethane	ug/L	<5.0	5.0	
Chloroethane	ug/L	<5.0	5.0	
Trichlorofluoromethane	ug/L	<1.0	1.0	
Diethyl ether	ug/L	<10	10	
Tert-butyl alcohol	ug/L	<50	50	
1,1-Dichloroethene	ug/L	<1.0	1.0	
Acetone	ug/L	<50	50	
Iodomethane	ug/L	<1.0	1.0	
Carbon disulfide	ug/L	<5.0	5.0	
Methyl-tert-butyl ether	ug/L	<5.0	5.0	
Methylene chloride	ug/L	<5.0	5.0	
Acrylonitrile	ug/L	<2.0	2.0	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	
1,1-Dichloroethane	ug/L	<1.0	1.0	
Diisopropyl Ether	ug/L	<5.0	5.0	
2-Butanone	ug/L	<25	25	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	
t-Butyl Ethyl Ether	ug/L	<5.0	5.0	
Bromochloromethane	ug/L	<1.0	1.0	
Tetrahydrofuran	ug/L	<90	90	
Chloroform	ug/L	<1.0	1.0	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	
Carbon tetrachloride	ug/L	<1.0	1.0	
Benzene	ug/L	<1.0	1.0	
t-Amyl Methyl Ether	ug/L	<5.0	5.0	
1,2-Dichloroethane	ug/L	<1.0	1.0	
Cyclohexane	ug/L	<5.0	5.0	
Trichloroethene	ug/L	<1.0	1.0	
1,2-Dichloropropane	ug/L	<1.0	1.0	
Dibromomethane	ug/L	<5.0	5.0	
Bromodichloromethane	ug/L	<1.0	1.0	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	
4-Methyl-2-pentanone	ug/L	<50	50	
Toluene	ug/L	<1.0	1.0	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	

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METHOD BLANK: T103228-BLK1

Parameter	Units	Blank Result	Reporting Limit	Notes
1,1,2-Trichloroethane	ug/L	<1.0	1.0	
Tetrachloroethene	ug/L	<1.0	1.0	
2-Hexanone	ug/L	<50	50	
Dibromochloromethane	ug/L	<5.0	5.0	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	
Chlorobenzene	ug/L	<1.0	1.0	
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	
Ethylbenzene	ug/L	<1.0	1.0	
m,p-Xylene	ug/L	<2.0	2.0	
o-Xylene	ug/L	<1.0	1.0	
Xylenes, total	ug/L	<3.0	3.0	
Styrene	ug/L	<1.0	1.0	
Bromoform	ug/L	<1.0	1.0	
Isopropylbenzene	ug/L	<5.0	5.0	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	
trans-1,4-Dichloro-2-butene	ug/L	<1.0	1.0	
Bromobenzene	ug/L	<1.0	1.0	
n-Propylbenzene	ug/L	<1.0	1.0	
1,3,5-Trimethylbenzene	ug/L	<1.0	1.0	
t-Butyl Benzene	ug/L	<1.0	1.0	
1,2,4-Trimethylbenzene	ug/L	<1.0	1.0	
sec-Butylbenzene	ug/L	<1.0	1.0	
p-Isopropyltoluene	ug/L	<5.0	5.0	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	
n-Butylbenzene	ug/L	<1.0	1.0	
1,2,3-Trimethylbenzene	ug/L	<1.0	1.0	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	
1,2-Dibromo-3-chloropropane	ug/L	<1.0	1.0	
Hexachloroethane	ug/L	<5.0	5.0	
1,2,4-Trichlorobenzene	ug/L	<5.0	5.0	
Naphthalene	ug/L	<5.0	5.0	
1,2,3-Trichlorobenzene	ug/L	<5.0	5.0	
2-Methylnaphthalene	ug/L	<5.0	5.0	
1,2-Dichloroethane-d4 (S)	%	106	68-133	
Toluene-d8 (S)	%	104	75-120	
4-Bromofluorobenzene (S)	%	105	69-119	
1,2-Dichlorobenzene-d4 (S)	%	104	72-127	

LABORATORY CONTROL SAMPLE: T103228-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
1,1-Dichloroethene	ug/L	50.0	50.8	102	64-156	

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Trace Analytical Laboratories, Inc.
2241 Black Creek Road
Muskegon, MI 49444-2673



231-773-5998 Phone
888-979-4469 Fax
www.trace-labs.com

LABORATORY CONTROL SAMPLE: T103228-BS1

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limit	Notes
Benzene	ug/L	50.0	50.5	101	80-120	
Trichloroethene	ug/L	50.0	44.3	89	69-133	
Toluene	ug/L	50.0	56.3	113	80-120	
Chlorobenzene	ug/L	50.0	50.8	102	80-120	
1,2-Dichloroethane-d4 (S)	%	30.0	27.0	90	68-133	
Toluene-d8 (S)	%	30.0	32.2	107	75-120	
4-Bromofluorobenzene (S)	%	30.0	28.6	95	69-119	
1,2-Dichlorobenzene-d4 (S)	%	30.0	31.8	106	72-127	

MATRIX SPIKE / MATRIX SPIKE DUPLICATE: T103228-MSD1

Original: 20J0293-01

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Notes
1,1-Dichloroethene	ug/L	0	20.0	20.0	20.4	100	102	60-146	2	15	
Benzene	ug/L	0	20.0	20.1	20.1	101	100	78-114	0.1	11	
Trichloroethene	ug/L	0.960	20.0	19.4	19.7	92	94	70-117	2	14	
Toluene	ug/L	0	20.0	20.6	20.9	103	105	77-118	1	10	
Chlorobenzene	ug/L	0	20.0	20.2	20.6	101	103	75-116	2	12	
1,2-Dichloroethane-d4 (S)	%		30.0	31.2	31.3	104	104	68-133			
Toluene-d8 (S)	%		30.0	30.0	30.2	100	101	75-120			
4-Bromofluorobenzene (S)	%		30.0	31.0	30.8	103	103	69-119			
1,2-Dichlorobenzene-d4 (S)	%		30.0	30.6	30.7	102	102	72-127			

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CHAIN-OF-CUSTODY RECORD

Trace Analytical Laboratory
2241 Black Creek Road
Muskegon, MI 49444-2673

Phone 231.773.5998
Fax 888.979.4469
www.trace-labs.com

Page 1 of 1

Trace ID No

Report Results To:		Bill To:	
Company Name: Lakeshore Environmental, Inc.		PO #	
Report To: Erin Gerber		Contact Name: Denise Babin	
Mailing Address: 803 Veterans St.		Billing Address (if different):	
City, State, Zip Code: Grand Haven, MI, 49417		City, State, Zip Code:	
Office Phone:		Phone Number:	
Cell Phone:		Billing Email Address:	
Email Address: ~~Erin@lakeshoreenv.com~~ Erin@lakeshoreenv.com			

Trace Use:	
Logged By: JS	
Checked By: AB	
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level
	Lab
Sampling Time:	

Trace Use:	
Logged By:	JS
Checked By:	JA
Soil Volatiles Preserved (circle if applicable):	
MeOH	Low Level
	Lab
Sampling Time:	

[illegible]

☐ Check this box if you would not like your samples analyzed if received outside of the conditions outlined in the Trace Sample Acceptance Policy at www.trace-labs.com/downloads

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Muskegon, MI 49444-2673



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SAMPLE LOG IN CHECKLIST

Trace ID #: <u>20J0293</u>	Date: <u>10/8/20</u>	Package Description: <u>Cooler</u>	Temperature: <u>14</u>
Client Name: <u>LET</u>	Time: <u>14:34</u>	Logged in by: <u>JS</u>	

Cooler Receipt

Cooler/samples delivered by:	Trace courier ☐	Hand delivered ☒	Commercial courier ☐	UPS ☐	FED EX ☐	US Mail ☐
Name of delivery person: _____						
Tracking Number: ☒ Not Applicable						
Tracking #: _____						
COC Seals present and intact on cooler? ☒ Not Applicable ☐ No ☐ Yes						
Custody seals signed by Client? ☐ No ☐ Yes Client custody seal # (if applicable): _____						

Coolant and Temperature

Type of Coolant Used	Cooler Temperature
Slurry w/ crushed, cubed, or chip ice? ☐	Correction Factors: •Digital Stick Thermometer CF = -0.6°C
Multiple bags of ice around samples? ☐	•IR Thermometer CF = -0.8°C
Ice Packs/ Blue Ice: ☒	Representative Sample Temperature: <u>11.1</u> °C (check one below)
No Coolant Present: ☐	☐ Temp Blank (Stick Thermometer)
Ice still present upon receipt (circle one):	☒ Client Sample (IR Thermometer)
<u>Yes</u> No N/A	Melt Water: <u>none</u> °C (Use Digital Stick Thermometer)

General

	Yes	No	NA	Comments
All bottles arrived unbroken with labels in good condition?	☒	☐	☐	
Each sample point is in a sealed plastic bag?	☒	☐	☐	
Labels filled out completely?	☒	☐	☐	
All bottle labels agree with Chain of Custody (COC)?	☒	☐	☐	
Sufficient sample to run tests requested?	☒	☐	☐	
*pH checked - samples at correct pH and labeled as such?	☒	☐	☐	
Correct chemical preservative added to samples?	☒	☐	☐	
Air bubbles absent from VOAs?	☒	☐	☐	
COC filled out properly and signed by client?	☒	☐	☐	
COC signed in by TRACE sample custodian?	☒	☐	☐	
Was project manager called and samples discussed?	☒	☐	☐	

Notes:

*EMD pH Test Strips Used:

☐ pH 0-2.5 Lot HC908519 ☐ pH 11.0-13.0 Lot: HC729101
☐ Other: _____

Form 70-A.33
Effective 8/7/20

TRACE Analytical Laboratories, Inc.

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2020 Annual Monitoring Well Sampling Report
Attn: Darlene Pearson, EGLE

Attachments
December 7, 2020

Attachment C: Groundwater Data Summary

Attachment C - Groundwater Data Summary
Grand Haven Board of Light and Power
Grand Haven, Ottawa County, Michigan

Constituent	Chemical Abstract Service Number	Residential and Non Residential Part 201 Generic Cleanup Criteria and Screening Levels (December 30, 2013)			Sample Identification Number						
		Residential Drinking Water Criteria & RSLs	Groundwater Surface Water Interface Criteria & RSLs	Acute Inhalation Screening Level	MW-4						
					10/20/2014	10/30/2015	11/3/2016	9/27/2017	9/27/2018	11/12/2019	10/8/2020
Depth to NAPL					NA	NA	NA	NA	NA	NA	NA
Static Water Level					583.58	583.38	583.76	583.91	584.38	584.78	584.78
Volatiles (ug/L)											
Acetone	67641	730	1,700	1.0E+9 (D)	<50	<50	<50	<50	<50	<50	<50
Acrylonitrile	107131	2.5	2.0 (M), 1.2	ID	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Benzene	71432	5.0 (A)	200 (X)	67,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromobenzene	108861	18	NA	ID	NT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromochloromethane					<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromodichloromethane	75274	80 (A,W)	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bromoform	75252	80 (A,W)	ID	ID	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
Bromomethane	74839	10	35	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Butanone (MEK)	78933	13,000	2,200	2.4E+8 (S)	<25	<25	<25	<25	<25	<25	<25
n-Butylbenzene	104518	80	ID	ID	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
sec-Butylbenzene	135988	80	ID	ID	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
tert-Butylbenzene	98066	80	ID	ID	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon disulfide	75150	800	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Carbon tetrachloride	56235	5.0 (A)	45 (X)	96,000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	108907	100 (A)	25	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	75003	430	1,100 (X)	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chloroform	67663	80 (A,W)	350	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	74873	260	ID	2.1E+5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromochloromethane	124481	80 (A,W)	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibromomethane	74953	80	NA	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dibromo-3-chloropropane					NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	95501	600 (A)	13	1.6E+5 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	541731	6.6	28	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,4-Dichlorobenzene	106467	75 (A)	17	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	75718	1,700	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
trans-1,4-Dichloro-2-butene					NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	75343	880	740	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloroethane	107062	5.0 (A)	360 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethylene	75354	7.0 (A)	130	1.4E+5	NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,2-Dichloroethylene	156592	70 (A)	620	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	156605	100 (A)	1,500 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichloropropane	78875	5.0 (A)	230 (X)	2.8E+6 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cis-1,3-Dichloropropene	542756	8.5	9.0 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropene	542756	8.5	9.0 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Diethyl ether	60297	10 (E)	ID	6.1E+7 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	100414	74 (E)	18	1.7E+5 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Ethylene dibromide	106934	0.05 (A)	5.7 (X)	ID	NT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Hexachloroethane	67721	7.3	6.7 (A)	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Hexanone	591786	1,000	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Iodomethane					NT	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Isopropyl benzene	98828	800	28	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
p-Isopropyltoluene					NT	NT	<5.0	<5.0	<5.0	<5.0	<5.0
4-Methyl-2-pentanone (MIBK)	108101	1,800	ID	2.0E+7 (S)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methyl-tert-butyl ether (MTBE)	163404A	40 (E)	7,100 (X)	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Methylene chloride	75092	5.0 (A)	1,500 (X)	ID	NT	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
n-Propylbenzene	103651	80	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Styrene	100425	100 (A)	80 (X)	3.1E+5 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethane	630206	77	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	79345	8.5	78 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	127184	5.0 (A)	60 (X)	2.0E+5 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrahydrofuran	109999	95	11,000 (X)	3.6E+6	NT	NT	<90	<90	<90	<90	<90
Toluene	108883	790 (E)	270	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichlorobenzene					NT	NT	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trichlorobenzene	120821	70 (A)	99 (X)	3.0E+5 (S)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,1,1-Trichloroethane	71556	200 (A)	89	1.3E+6 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	79005	5.0 (A)	330 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene	79016	5.0 (A)	200 (X)	1.1E+6 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	75694	2,600	NA	1.1E+6 (S)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,3-Trichloropropane	96184	42	NA	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2,4-Trimethylbenzene	95636	63 (E)	17	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	108678	72 (E)	45	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Vinyl chloride	75014	2.0 (A)	13 (X)	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Xylenes	1330207	260 (E)	41	1.9E+5 (S)	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
Semi-volatiles (ug/L)											
Acenaphthene	83329	1,300	38	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Acenaphthylene	208968	52	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	120127	43 (S)	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benz(a)anthracene	56553	2.1	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(b)fluoranthene	205992	1.5 (S, AA)	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(g,h,i)perylene	207089	1.0 (M), 0.8 (S)	NA	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)pyrene	191242	1.0 (M), 0.26 (S)	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Benz(a)pyrene	50328	5.0 (A)	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chrysene	218019	1.6 (S)	ID	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dibenz(a,h)anthracene	53703	2.0 (M), 0.21	ID	ID	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Fluoranthene	206440	210 (S)	1.6	ID	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Fluorene	86737	880	12	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene	193395	2.0 (M), 0.022 (S)	ID	ID	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
2-Methylnaphthalene	91576	260	19	ID	<5.0	<5.0	<5.0	<5.0	<5.0	6.2	<5.0
Naphthalene	91203	520	11	31,000 (S)	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenanthrene	85018	52	2.0 (M), 1.4	ID	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Pyrene	129000	140 (S)	ID	ID	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

ND: Not detected

NL: Not Located

- Not Sampled

Data collected prior 11/29/2012 has been hidden and previously submitted

NAPL: Non Aqueous Phase Liquid formerly "free product"

Board Members:
John M. Montgomery, Chairperson
Roger K. Easton
Emery J. Holzinger
Roy E. Overway
Deborah A. Vanderweele

Board of Light and Power
1700 Eaton Drive
Grand Haven, Michigan 49417
616/846-6250
Fax 616/846-3114



General Manager
Philip T. Trumpfheller

September 12, 1995

RECEIVED ERD-G.R.

SEP 15 1995

Marlene Leistico, EDR
Department of Natural Resources
245 Colrain SW
Wyoming, MI 49548-1013

FILE GENERAL
CO. OTTAWA
SUBFILE GRAND HAVEN BRD OF L & P

Dear Ms. Leistico:

To follow up as requested on the reported oil spill at our diesel plant on 8/8/95, we have summarized clean up details below.

A heavy oil leak was discovered at our diesel plant facility at approximately 8:20 AM on Tuesday August 8, 1995. This leak occurred in the heavy oil supply line running from the above ground storage tank to the diesel generating plant. It resulted in approximately 100 gallons of oil leaking into and accumulating in the basement of the building located at 518 S. Harbor. The storage tank was immediately isolated and a cleanup in the basement started; no oil was noted in the plant drain system at this time. On 8/9/95 Northern A-1 Contractors were called in to assist in cleaning operations.

Great Lakes Construction began excavation of the pipeline and found the leak adjacent to the roadway on 8/9/95. By Friday 8/11 they were ready to replace the broken pipe. Contaminated soil was stored separately for later disposal. The new pipe section was welded and completed on 8/15/95. On 8/17 Great Lakes brought six 55-gallon disposal barrels (sealed tops) to the J.B. Sims plant to await proper disposal and had pipe insulation on order. The insulation was replaced on 8/23/95 and backfilling was completed on 8/28/95.

Disposal of the six barrels will take place as soon as time allows and will be coordinated with White Lake Landfill with regards to their requirements.

Sincerely,

Charles C. Larsen
Chemical Systems Supervisor
Grand Haven Board of Light & Power

CLOSED

ENVIRONMENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEETDATE:
PAGE: 1

SUPPLEMENT

RECEIVING OFFICE

INCIDENT NUMBER:

DISTRICT: Grand Rapids

DATE OF CALL: 8/8/95

CALL TAKEN BY: Hopkins

STAFF PERSON ASSIGNED: Leistico

PEAS NUMBER:

TIME OF CALL: 1:15

DIVISION: ERD

COMPLAINT SOURCE

NAME/SOURCE:

Chuck Larsen

ADDRESS:

Board of Light + Power

Harbour Dr.

PHONE NUMBER: ()

Grand Haven

(616) 842-6355

INCIDENT INFORMATION

DESCRIPTION: Lost + 100 gallons heavy diesel fuel #5 thru a 4" pipeline from an above-ground ^(AGT) tank to basement of building. Noticed fuel oil accumulating in valve pit + basement ≈ 100 gallons. oil leaking around pipe + insulation is carrying it to basement. Shut valve on. AGT have Great Lakes Construction digging up pipeline from basement to tank to determine where leak is. No surface or gw impacted. Small area of soils by insulation is stained.

COUNTY: Ottawa

FACILITY NAME:

Board of Light + Power

ADDRESS:

Harbour Dr.
Grand Haven

aX from Coast Guard Station

TOWNSHIP:

RANGE:

SECTION:

QUARTER:

QUARTER:

AREA CODE/PHONE#: (616) 842-6355

CONTACT PERSON:

Chuck Larsen or

Gordon Groenevelt

RELATIONSHIP TO INCIDENT:

chemical Systems
supervisor

Superintendent

[] OWNER

[] OPERATOR

[] TRANSPORTER

[] GENERATOR

NOTIFICATIONS:

COMPANY/FACILITY INFORMATION

NAME:

ADDRESS:

PHONE NUMBER: ()

CONTACT PERSON:

[] OWNER

[] OPERATOR

[] TRANSPORTER

[] GENERATOR

INCIDENT STATUS

- [] IN PROGRESS SPECIFY:
[] UNABLE TO CONFIRM INCIDENT REPORT
[] NO FURTHER RESPONSE: COMMENTS/BASIS:

- [] RP CLEAN-UP COMPLETED ESTIMATED COST:
[] STATE CLEAN-UP COMPLETED ESTIMATED COST:
[] REFER TO ERD MASTER SITE DATABASE

(NOTE: See Appendix A in ITS Users Guide for Definition of
"Site of Environmental Contamination")

UNIQUE SITE #:

SITE NAME:

- [] REFER TO LUST DATABASE
[] REFER PRIMARY RESPONSIBILITY TO:
[] SWQD [] MDA [] WMD [] MDPH [] AQD [] GSD
[] LOCAL HEALTH DEPT [] OTHER: SPECIFY:

ENVIRONMENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEET

PAGE 2

INCIDENT NUMBER: _____

SOURCE/POINT OF RELEASE:

☐ PIPELINE	☐ SURFACE DISCHARGE
☐ DUMP	☐ UNKNOWN
☐ TANKER	
SIZE: _____	
☐ TRANSPORTATION	
SPECIFY: _____	
☐ CONTAINER/ROLLOFF BOX	
SIZE: _____	
☐ BARREL/DRUM	
NUMBER: _____ SIZE: _____	
☐ ABOVEGROUND TANK	
SIZE: _____	
☐ UNDERGROUND TANK	
NUMBER: _____ SIZE: _____	
☐ LAGOON	
SIZE: _____	
☐ OTHER	
SPECIFY: _____	

CONTAMINANT (s) CATEGORY:

☐ GASOLINE	☐ DIESEL FUEL
☐ HEATING OIL	☐ OTHER PETROLEUM PRODUCTS
☐ PCBs	☐ METALS
☐ FERTILIZER	☐ SOLID WASTE
☐ BRINE/CHLORIDES	
☐ PESTICIDES (HERBICIDES, INSECTICIDES, ETC.)	
☐ SOLVENTS	
SPECIFY: _____	
☐ OTHER:	
SPECIFY: _____	

ESTIMATED TOTAL QUANTITY LOST: _____

- | |
|---|
| ☐ GALLONS |
| ☐ CUBIC YARDS |
| ☐ POUNDS |
| ☐ TONS |
| ☐ OTHER - SPECIFY: _____ |

RESOURCE
AFFECTED

RESOURCE
POTENTIALLY AFFECTED

SEDIMENT	☐	☐
SURFACE WATER	☐	☐
GROUNDWATER	☐	☐
AIR	☐	☐
SOIL	☐	☐
WETLAND	☐	☐
MUNICIPAL WELL	☐	☐
RESIDENTIAL WELL	☐	☐
COMMERCIAL WELL	☐	☐
FAUNA	☐	☐
FLORA	☐	☐
OTHER - SPECIFY:	☐	☐

BOARD OF LIGHT AND POWER

1700 Eaton Drive Grand Haven, Michigan 49417 616/846-6250



April 14, 1994

RECEIVED ERD-G. R.

APR 18 1994

Michigan Department of Natural Resources
350 Ottawa N.W.
Grand Rapids, MI 49503

FILE _____
CO. _____
SUBFILE _____

Attn: Heather Hopkins

Dear Ms. Hopkins:

Please find attached a copy of the weigh slip provided to us by White Lake Landfill for our contaminated soil cleanup.

The soil contaminated by the lime delivery truck's fuel oil spill was removed, along with a good quantity of additional soil to ensure proper clean up. A total of approximately 15 cubic yards of material was landfilled.

Should you have further questions, please do not hesitate to contact the carrier, Bulkmatic (1-800-544-8221) or our plant staff. Thank you for your assistance.

Sincerely,

Charles Larsen
Chemical Systems Supervisor

CL:vld

Attachment

WHITE LAKE LANDFILL, INC.
3278 Colby Road • Whitehall, MI 49461
(616) 893-8904 1-800-541-2916

87113

CHP

CUSTOMERS NAME

COMMODITY

CARRIER PST

4-13-94 11:34AM 76800

REMARKS

4-13-94 11:44AM 36400

DRIVER

40,500 WEIGHER *st*

WEIGHED BY FAIRBANKS SCALE

CLOSED 6*ENVIRONMENTAL RESPONSE DIVISION
INCIDENT TRACKING WORKSHEETDATE:
PAGE: 1

SUPPLEMENT _____

RECEIVING OFFICE _____

INCIDENT NUMBER: _____

PEAS NUMBER: _____

DISTRICT: GRDATE OF CALL: 4/13/94TIME OF CALL: 9:10 AMCALL TAKEN BY: Hopkins

STAFF PERSON ASSIGNED: _____

DIVISION: ERD

COMPLAINT SOURCE _____

NAME/SOURCE: Chuck LarsenADDRESS: Grand Haven Board of Light & Power
1700 Eaton Drive / 518 S. HarborPHONE NUMBER: (616) 846-³⁵⁵~~6250~~

INCIDENT INFORMATION

DESCRIPTION: Approx. 10-15 gallons diesel fuel from saddle tank on truck lost into River. Coast Guard responded. Truck moved to area that was diked & lost diesel fuel to the soil. Approx. 15 gallons of fuel was recovered from tire tracks-- approx 200' long, and put in w/ their waste oil. An area approx. 10' x 3' by 6" deep was affected by diesel fuel from saddle tank. Would like to scrap roll the soil & dispose of it w/ their fly ash to White Lake LF.

COUNTY: Ottawa Co.

FACILITY NAME: _____

ADDRESS: _____

TOWNSHIP: _____

RANGE: _____

SECTION: _____

QUARTER: _____

QUARTER: _____

AREA CODE/PHONE#: () _____

CONTACT PERSON: _____

RELATIONSHIP TO INCIDENT: _____

☐ OWNER ☐ OPERATOR ☐ TRANSPORTER ☐ GENERATOR

NOTIFICATIONS: _____

COMPANY/FACILITY INFORMATION

NAME: _____

ADDRESS: _____

PHONE NUMBER: () _____

CONTACT PERSON: _____

☐ OWNER ☐ OPERATOR ☐ TRANSPORTER ☐ GENERATOR

INCIDENT STATUS

☐ IN PROGRESS SPECIFY:☐ UNABLE TO CONFIRM INCIDENT REPORT☐ NO FURTHER RESPONSE: COMMENTS/BASIS:15 cubic yds soil removed☒ RP CLEAN-UP COMPLETED

ESTIMATED COST:

☐ STATE CLEAN-UP COMPLETED

ESTIMATED COST:

☐ REFER TO ERD MASTER SITE DATABASE(NOTE: See Appendix A in ITS Users Guide for Definition of
"Site of Environmental Contamination")

UNIQUE SITE #:

SITE NAME:

☐ REFER TO LUST DATABASE☐ REFER PRIMARY RESPONSIBILITY TO:☐ SWQD☐ MDA☐ WMD☐ MDPH☐ AQD☐ GSD☐ LOCAL HEALTH DEPT ☐ OTHER: SPECIFY:

INCIDENT NUMBER: _____

SOURCE/POINT OF RELEASE:

☐ PIPELINE	☐ SURFACE DISCHARGE
☐ DUMP	☐ UNKNOWN
☐ TANKER	
SIZE: _____	
☐ TRANSPORTATION	
SPECIFY: _____	
☐ CONTAINER/ROLLOFF BOX	
SIZE: _____	
☐ BARREL/DRUM	
NUMBER: _____ SIZE: _____	
☐ ABOVEGROUND TANK	
SIZE: _____	
☐ UNDERGROUND TANK	
NUMBER: _____ SIZE: _____	
☐ LAGOON	
SIZE: _____	
☐ OTHER	
SPECIFY: _____	

CONTAMINANT (s) CATEGORY:

☐ GASOLINE	☐ DIESEL FUEL
☐ HEATING OIL	☐ OTHER PETROLEUM PRODUCTS
☐ PCBs	☐ METALS
☐ FERTILIZER	☐ SOLID WASTE
☐ BRINE/CHLORIDES	
☐ PESTICIDES (HERBICIDES, INSECTICIDES, ETC.)	
☐ SOLVENTS	
SPECIFY: _____	
☐ OTHER:	
SPECIFY: _____	

ESTIMATED TOTAL QUANTITY LOST: _____

- | |
|---|
| ☐ GALLONS |
| ☐ CUBIC YARDS |
| ☐ POUNDS |
| ☐ TONS |
| ☐ OTHER - SPECIFY: _____ |

	RESOURCE AFFECTED	RESOURCE POTENTIALLY AFFECTED
SEDIMENT	☐	☐
SURFACE WATER	☐	☐
GROUNDWATER	☐	☐
AIR	☐	☐
SOIL	☐	☐
WETLAND	☐	☐
MUNICIPAL WELL	☐	☐
RESIDENTIAL WELL	☐	☐
COMMERCIAL WELL	☐	☐
FAUNA	☐	☐
FLORA	☐	☐
OTHER - SPECIFY:	☐	☐

BOARD OF LIGHT AND POWER

1700 Eaton Drive

Grand Haven, Michigan 49417

616/846-6250

November 28, 1989

ENV. RESPONSE DIV.
GRAND RAPIDS

NOV 30 1989

RECEIVED

Marge Spruit
Department of Natural Resources
350 Ottawa N.W., Suite 6D
Grand Rapids, Michigan 49503

Dear Marge:

This letter is be written to up-date you on the status of the Underground Storage Tank Removal Project at the Grand Haven Board of Light Power Diesel Plant.

10/23/89
Since the day that you inspected the site, we have hired Soil and Structures, Inc. from Muskegon to perform soil borings (see enclosed map). Four soil borings were taken around the east tank and two around the west tank. Borings TB5 and TB6 from the west tank had points installed so that water samples could be taken. Soil and water samples were sent to West Michigan Environmental Services in Holland for analysis for total petroleum hydrocarbon. The results are as follows:

SAMPLE	DEPTH	TPH
TB1	30'	<25 mg/kg
TB2	25'	<25 mg/kg
TB3	35'	<25 mg/kg
TB4	35'	<25 mg/kg
TB5 (Soil)	30'	1360 mg/kg
TB5 (Water)		Free Product Visible
TB6 (Soil)	30'	<25 mg/kg
TB6 (Water)		70.2 mg/l

Based upon this information, we have written a specification for the removal of the oil contaminated soil and removal of the oil from the water. We have received bids on this project which will be going to our Board of Directors for review this week, and we expect to start removal process very shortly.

Because all that is remaining of these two tanks is the external shell and because the other three tanks in the area have already been removed, I intend to send a new "Notification for Underground Storage Tanks" to the State Fire Marshalls Office indicating that the tanks have been removed.

If you have any questions or comments, please feel free to contact me.

Yours truly,



Dale Wilterdink
Assistant Production Superintendent

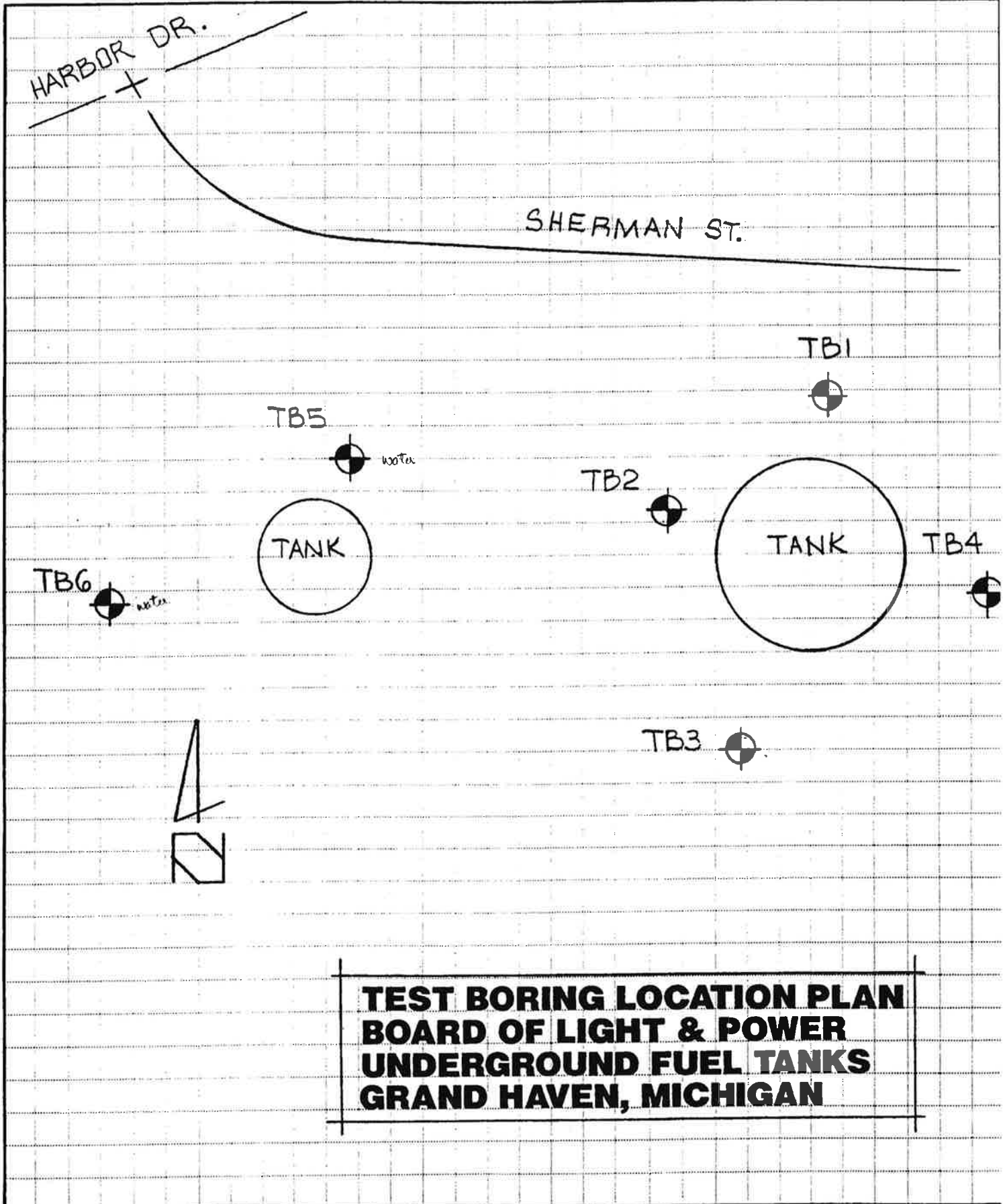
cc: Phil Trumpfheller
Gordon Groenevelt

Enclosure

SOILS AND STRUCTURES, INC.

4382 Henry Street
MUSKEGON, MICHIGAN 49441
(616) 798-4127

JOB _____
SHEET NO. _____ OF _____
CALCULATED BY DWH DATE 11-13-89
CHECKED BY _____ DATE _____
SCALE 1" = 30'



**TEST BORING LOCATION PLAN
BOARD OF LIGHT & POWER
UNDERGROUND FUEL TANKS
GRAND HAVEN, MICHIGAN**

BOARD OF LIGHT AND POWER

1700 Eaton Drive

Grand Haven, Michigan 49417

616/846-6250

postmark 1-8-90

January 5, 1990

**ENV. RESPONSE DIV.
GRAND RAPIDS**

JAN 09 1990

RECEIVED

Marge Spruit
Michigan Department of Natural Resources
350 Ottawa N.W.
Suite 6D
Grand Rapids, Michigan 49503

Dear Marge:

This letter is being written to update you on the progress of the contaminated soil removal going on at our Diesel Plant.

We removed approximately 650 yards of contaminated soil from the east tank and then performed a BTEX sample of the soils to determine further contamination. The analysis of the sample is as follows:

Benzene - 14 ppm
Toluene - <10 ppm
Ethylbenzene - <10 ppm
Xylene - 48 ppm

Based upon this information, we decided to auger deeper to determine the condition of soil further down. We collected samples approximately three feet deeper and had these samples analyzed for BTEX and total petroleum hydrocarbon. The analysis on both of these samples passed. Therefore, we have now removed the soil down to that

level and have again pulled samples which are currently being analyzed. In fact you should be receiving copies of that site assessment information very shortly. If these samples indicate that the ground is clear, we intend to fill the hole and move to the west tank.

Much less has been done on the west tank. The soil has been removed down to the water level. We are currently waiting for completion of the east tank prior to going any further with the west tank.

If you have any questions or comments, please feel free to contact me at 842-6355.

Sincerely,



Dale Wilterdink
Assistant Production
Superintendent

DW:vld

cc: G.Groenevelt

BOARD OF LIGHT AND POWER

1700 Eaton Drive Grand Haven, Michigan 49417 616/846-6250



January 15, 1990

postmark 1-15-90
nu

**ENV. RESPONSE DIV.
GRAND RAPIDS**

JAN 16 1990

RECEIVED

Marge Spruit
Michigan Department of Natural Resources
350 Ottawa N.W.
Grand Rapids, Michigan 49503

Dear Marge:

Enclosed you will find the site assessment analysis from the Soil Removal Project at our Diesel Plant.

The samples were taken from the bottom of the east tank after the contaminated soil had been removed. We are requesting permission to fill the hole in with clean sand so that we can begin clean up work on our west tank.

If you have any questions, please feel free to contact me at 842-6355.

Yours truly,

Dale Wilterdink
Assistant Production Superintendent

DW:vld

Enclosure

cc: G.Groenevelt

esi

WESTERN MICHIGAN
ENVIRONMENTAL SERVICES, INC.
245 EAST LAKEWOOD BLVD.
HOLLAND, MI 49424-2066
PHONE 616-396-1209

TO: Great Lakes Construction
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

ENV. RESPONSE DIV.
GRAND RAPIDS

JAN 10 1990

RECEIVED

DATE: January 10, 1990

ANALYSIS: OF SOIL SAMPLES

REPORTED BY: Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 3, 1990.

RESULTS: Expressed as micrograms per kilogram ($\mu\text{g}/\text{kg}$) except where noted
in parentheses.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001010-1	#1 Center Tank #2, 1:25 center of east tank	Total Petroleum Hydrocarbons (mg/kg as received)	<25.0
-2	East Tank, Test 1 nw portion of tank	Benzene Toluene Ethyl Benzene Total Xylenes	<10 <10 <10 <10
-3	East Tank, Test 3 sw portion of tank	Benzene Toluene Ethyl Benzene Total Xylenes	<10 <10 <10 <10

STATE OF MICHIGAN



NATURAL RESOURCES COMMISSION

THOMAS J. ANDERSON
MARLENE J. FLUHARTY
KERRY KAMMER
O. STEWART MYERS
DAVID D. OLSON
RAYMOND POUPORE

JAMES J. BLANCHARD, Governor

DEPARTMENT OF NATURAL RESOURCES

DAVID F. HALES, Director

State Office Building
350 Ottawa N. W.
Grand Rapids, Michigan 49503

January 31, 1990

Mr. Dale Wilterdink
Board of Light and Power
1700 Eaton Drive
Grand Haven, Michigan 49417

RE: Diesel Plant, East Tank

Dear Mr. Wilterdink:

This letter will confirm our conversation regarding the site assessment for the east tank at the Diesel Plant. You were given permission to fill in the east tank hole with clean sand.

If you have any questions or comments, feel free to contact me at this office.

Sincerely,

A handwritten signature in cursive script that reads "Marge Spruit".

Marge Spruit
Environmental Quality Analyst
ENVIRONMENTAL RESPONSE DIVISION
616 - 456-5071

MS/mam



BOARD OF LIGHT AND POWER

1700 Eaton Drive Grand Haven, Michigan 49417 616/846-6250



February 12, 1990

ENV. RESPONSE DIV.
GRAND RAPIDS

FEB 15 1990

RECEIVED

Marge Spruit
Michigan Department of Natural Resources
350 Ottawa N.W.
Grand Rapids, Michigan 49503

Dear Marge:

Enclosed you will find the site assessment analysis from the Soil Removal Project at our Diesel Plant.

Samples were taken from the bottom of the west tank after the contaminated soil had been removed. Samples were taken from the east side and west side of the tank and analyzed for Total Petroleum Hydrocarbons. Both samples tested at <25 mg/kg. Samples from both the south side and the north side of the tank were taken and BTEX analysis were run with all tests showing <10 micrograms per kilogram. A water sample was taken from the center of the tank. The BTEX analysis passed, but Total Petroleum Hydrocarbons indicated 53.6 mg/l. Further efforts were then made to remove the oil from the water. The water was then resampled on February 2. The Total Petroleum Hydrocarbon indicate <1 mg/l.

We are requesting permission to fill the hole in with clean sand.
If you have any questions, please feel free to contact me at 842-6355.

Yours truly,

Dale Wilterdink
Assistant Production Superintendent

DW:vld

cc: Gordon Groenevelt

Enclosures

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 29, 1990

ANALYSIS: OF SOIL SAMPLES

REPORTED BY:

Robert K. Zahray (RKS)
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 23, 1990.

RESULTS: Expressed as micrograms per kilogram ($\mu\text{g/kg}$) except where noted otherwise.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001148-1	East Side of West Tank	Total Petroleum Hydrocarbons (mg/kg)	<25.0
-2	West Side of West Tank	Total Petroleum Hydrocarbons (mg/kg)	<25.0
-3	South Side of West Tank	Benzene	<10
		Toluene	<10
		Ethyl Benzene	<10
		Total Xylenes	<10

WESTERN MICHIGAN
ENVIRONMENTAL SERVICES, INC.
245 EAST LAKEWOOD BLVD.
HOLLAND, MI 49424-2068
PHONE 616-396-1209

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 30, 1990. Revised January 31, 1990.

ANALYSIS: OF WATER SAMPLES

REPORTED BY:

Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 24, 1990.

RESULTS: Expressed as micrograms per liter ($\mu\text{g}/\text{l}$) except where noted otherwise.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001152-1	Water, Center of West Tank	Total Petroleum Hydrocarbons (mg/l)	53.6
-2	West Tank Water	Benzene	<1.0
		Toluene	<1.0
		Ethyl Benzene	<1.0
		Total Xylenes	<2.0
-3	North Side of West Tank (Soil Sample)	Benzene ($\mu\text{g}/\text{kg}$)	<10
		Toluene ($\mu\text{g}/\text{kg}$)	<10
		Ethyl Benzene ($\mu\text{g}/\text{kg}$)	<10
		Total Xylenes ($\mu\text{g}/\text{kg}$)	<10

esi

WESTERN MICHIGAN
ENVIRONMENTAL SERVICES, INC.
245 EAST LAKEWOOD BLVD.
HOLLAND, MI 49424-2066
PHONE 616-396-1209

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: February 7, 1990

ANALYSIS: OF SOIL SAMPLE

REPORTED BY:

Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client February 2, 1990.

RESULTS: Expressed as milligrams per liter (mg/l).

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9002013-1	Center of West Tank, 1:40 pm 02/02/90	Total Petroleum Hydrocarbons	<1.0

LAST WATER
SAMPLE.

BOARD OF LIGHT AND POWER

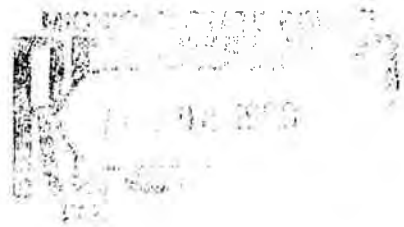
1700 Eaton Drive Grand Haven, Michigan 49417 616/846-6250



April 3, 1990

Department of State Police
Fire Marshall Division (UST)
7150 Harris Drive
Lansing, Michigan 48903

*DNR
Release
reported
10/10/89*



Dear Sirs:

In October 1989, the Grand Haven Board of Light & Power of Grand Haven, Michigan, reported that oil was found under two fuel oil tanks that were being removed at our Diesel Plant.

I am writing this letter to inform you that the site has been cleaned, and enclosed you will find the Site Assessment Analysis taken after the cleanup was completed.

The original project required the removal of five UST's at our Diesel Plant. Contaminated soil was found underneath two of the underground storage tanks. Those two have been identified as the west tank and the east tank. The east tank required the removal of approximately 13 feet of contaminated soil. There was no affect upon the water table underneath this tank. Soil was removed and properly disposed of in a landfill and then four samples were taken. Two of the samples were analyzed for Total Petroleum Hydrocarbons and both indicated <25 mg/kg. Two samples were analyzed for BTEX and all samples indicated <10 mg/kg. The west tank contained both contaminated soil, as well as some oil on the water. The process of removing the contaminated soil and cleaning up the water was accomplished.

Four soil samples were taken; each from the east, west, north and south. The east and west samples were analyzed for Total Petroleum Hydrocarbons and both indicated <25 mg/kg. The south and north samples were analyzed for BTEX and both indicated <10 mg/kg. A water sample was analyzed for both Total Petroleum Hydrocarbon and BTEX. The BTEX sample passed, but the Total Petroleum Hydrocarbons indicated 53.6 mg/l. Therefore, further efforts were made to remove the oil from the water. The water was resampled and the Total Petroleum Hydrocarbon Analysis indicated <1 mg/l.

ENV. RESPONSE DIV.
GRAND RAPIDS

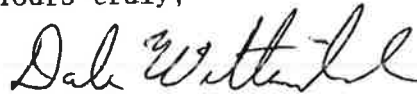
APR 13 1990
Pd 4/13/90

RECEIVED

The Site Assessment should indicate completion of the contaminated soil cleanup. A previous letter already indicated that the tanks were removed from service and no longer exist.

If you have any questions, please feel free to contact me at (616) 842-6355.

Yours truly,

A handwritten signature in cursive script, appearing to read "Dale Wilterdink".

Dale Wilterdink
Assistant Production Superintendent

DW:vld

Enclosure

cc: G.Groenevelt



TO: Great Lakes Construction
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 10, 1990

ANALYSIS: OF SOIL SAMPLES

REPORTED BY: Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 3, 1990.

RESULTS: Expressed as micrograms per kilogram ($\mu\text{g}/\text{kg}$) except where noted
in parentheses.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001010-1	#1 Center Tank #2, 1:25	Total Petroleum Hydrocarbons (mg/kg as received)	<25.0
-2	East Tank, Test 1	Benzene	<10
		Toluene	<10
		Ethyl Benzene	<10
		Total Xylenes	<10
-3	East Tank, Test 3	Benzene	<10
		Toluene	<10
		Ethyl Benzene	<10
		Total Xylenes	<10

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 11, 1990

ANALYSIS: OF SOIL SAMPLE

REPORTED BY:


Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 9, 1990.

RESULTS: Expressed as milligrams per kilogram (mg/kg) as received.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001064-1	East Tank, East Side	Total Recoverable Petroleum Hydrocarbons	<25



WESTERN MICHIGAN
ENVIRONMENTAL SERVICES, INC.
245 EAST LAKEWOOD BLVD.
HOLLAND, MI 49424-2066
PHONE 616-396-1209

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 29, 1990

ANALYSIS: OF SOIL SAMPLES

REPORTED BY: Robert K. Zahray (815)
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 23, 1990.

RESULTS: Expressed as micrograms per kilogram ($\mu\text{g/kg}$) except where
noted otherwise.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001148-1	East Side of West Tank	Total Petroleum Hydrocarbons (mg/kg)	<25.0
-2	West Side of West Tank	Total Petroleum Hydrocarbons (mg/kg)	<25.0
-3	South Side of West Tank	Benzene	<10
		Toluene	<10
		Ethyl Benzene	<10
		Total Xylenes	<10

WESTERN MICHIGAN
ENVIRONMENTAL SERVICES, INC.
245 EAST LAKEWOOD BLV
HOLLAND, MI 49424-20
PHONE 616-398-12

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: January 30, 1990. Revised January 31, 1990.

ANALYSIS: OF WATER SAMPLES

REPORTED BY:

Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client January 24, 1990.

RESULTS: Expressed as micrograms per liter ($\mu\text{g}/\text{l}$) except where noted otherwise.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9001152-1	Water, Center of West Tank	Total Petroleum Hydrocarbons (mg/l)	53.6
-2	West Tank Water	Benzene	<1.0
		Toluene	<1.0
		Ethyl Benzene	<1.0
		Total Xylenes	<2.0
-3	North Side of West Tank (<i>S.S./ Sample</i>)	Benzene ($\mu\text{g}/\text{kg}$)	<10
		Toluene ($\mu\text{g}/\text{kg}$)	<10
		Ethyl Benzene ($\mu\text{g}/\text{kg}$)	<10
		Total Xylenes ($\mu\text{g}/\text{kg}$)	<10

TO: Great Lakes Construction, Inc.
17085 Hayes
Grand Haven, Michigan 49417

Attn: Ron Smant
Re: Grand Haven Board of Light & Power

DATE: February 7, 1990

ANALYSIS: OF SOIL SAMPLE

REPORTED BY:

Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client February 2, 1990.

RESULTS: Expressed as milligrams per liter (mg/l).

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9002013-1	Center of West Tank, 1:40 pm 02/02/90	Total Petroleum Hydrocarbons	<1.0

LAST WATER
SAMPLE.

BOARD OF LIGHT AND POWER

1700 Eaton Drive Grand Haven, Michigan 49417 616/846-6250



May 23, 1990

**ENV. RESPONSE DIV.
GRAND RAPIDS**

MAY 24 1990

RECEIVED

Marge Spruit
Department of Natural Resources
350 Ottawa N.W., Suite 6D
Grand Rapids, Michigan 49503

Dear Marge:

Enclosed is a copy of the results from Western Michigan Environmental Services, Inc. of the water analysis that you requested.

Well #1 is located in the front lawn of the Diesel Plant near the flag pole on the corner of Sherman and Harbor. Well #2 is located just to the west of the UST removal site. As you can see, the water appears to be free from oil.

If you have any questions, please feel free to contact me.

Yours truly,

Dale Wilterdink
Assistant Production Superintendent

DW:vld

Enclosure

cc: Gordon Groenevelt

TO: Grand Haven Board of Light & Power
1700 Eaton Drive
Grand Haven, Michigan 49417

Attn: Chuck Larson
Re: Diesel Plant Samples

DATE: May 18, 1990

ANALYSIS: OF GROUNDWATER SAMPLES

REPORTED BY:

Robert K. Zahray
Robert K. Zahray, Laboratory Manager

SAMPLING DATE: Received from client May 3, 1990.

RESULTS: Expressed as micrograms per liter ($\mu\text{g}/\ell$) except
where noted in parentheses.

ESI #	SAMPLE I.D.	PARAMETER	CONCENTRATION
9005042-1	Diesel Plant	Total Petroleum	<1.0
	Well #1	Hydrocarbons (mg/ ℓ)	
	05/01/90	Benzene	<1.0
		Toluene	1.3
		Ethyl Benzene	<1.0
		Total Xylenes	<1.0
-2	Diesel Plant	Total Petroleum	<1.0
	Well #2	Hydrocarbons (mg/ ℓ)	
	05/01/90	Benzene	<1.0
		Toluene	<1.0
		Ethyl Benzene	<1.0
		Total Xylenes	<1.0

Storage Tank Facilities List

(NOTE: Tank information was last updated November 21, 2016. For more information on tanks, see the [DLARA Storage Tank Division](#) web site)

Facility and Tank Details

Facility Information:

Facility ID: 00000426
Diesel Plant
518 S HARBOR DR, GRAND HAVEN, MI 49417
Phone#: (616) 842-6355

Owner Information:

Haven Board of Light & Power, Grand
, UNKNOWN, MI
Phone#: (616) 842-6355

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	100000	7/17/1931 12:00:00 AM	FUEL OIL			Bare Steel		Asphalt Coated or Bare Steel	No
2	Removed from Ground	100000	7/17/1931 12:00:00 AM	FUEL OIL			Bare Steel		Asphalt Coated or Bare Steel	No
3	Removed from Ground	150000	7/17/1931 12:00:00 AM	FUEL OIL.			Bare Steel		Asphalt Coated or Bare Steel	No
4	Removed from Ground	6000	7/17/1931 12:00:00 AM	FUEL OIL			Bare Steel		Asphalt Coated or Bare Steel	No
5	Removed from Ground	1400	7/17/1931 12:00:00 AM	LUBE OIL			Bare Steel		Asphalt Coated or Bare Steel	No
031635-15		100000		Other						No
043209-15		1400		Other						No
095378-15		100000		Other						No
095382-15		150000		Other						No
095383-15		6000		Other						No

Release Information

(NOTE: Release information is updated regularly. For more information on releases, contact: [DEQ - Leaking Underground Storage Tank Program](#)

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions

Storage Tank Facilities List

(NOTE: Tank information was last updated November 21, 2016. For more information on tanks, see the [DLARA Storage Tank Division](#) web site)

Facility and Tank Details

Facility Information:

Facility ID:50000254
Grand Haven Board Of Light & Pwr
530 S HARBOR DR, GRAND HAVEN, MI 49417
Phone# : () -

Owner Information:

Owner, Nrt
, UNKNOWN, MI
Phone# :

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Non-Registered Tank									No
030762-15				Unknown						No

Release Information

(NOTE: Release information is updated regularly. For more information on releases, contact: [DEQ - Leaking Underground Storage Tank Program](#)

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-0658-89	Ghblp-diesel Plant	10/09/1989		Closed	05/30/1990	Type A Evaluation	NONE

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GRAND HAVEN DEPARTMENT OF PUBLIC SAFETY

OFFICE OF THE FIRE MARSHAL

James Kibart
525 Washington Ave
Grand Haven, MI 49417
616-842-3460
jkibart@grandhaven.org



DATE: 1-7-20

TO: Thomas Budge, Fishbeck

FROM: James Kibart

RE: 518 S. Harbor

I have received your FOIA request for 518 S. Harbor. I have checked our current and past records. I have included report #18-640 in regard to one fire on the property.

I did not find any record of petroleum product chemical spills at the site.

A handwritten signature in cursive script that reads "James Kibart".

James Kibart
Fire Marshal

A		MM DD YYYY		Delete		NFIRS -1									
07009		MI		05 31 2018		1		18-0000640		000		Change		Basic	
FDID *		State *		Incident Date *		Station		Incident Number *		Exposure *		No Activity			
B Location*															
☐ Check this box to indicate that the address for this incident is provided on the Wildland Fire Module in Section B "Alternative Location Specification". Use only for Wildland fires.															
☒ Street address															
518 S HARBOR DR															
Number/Milepost Prefix Street or Highway Street Type Suffix															
☐ Intersection															
☐ In front of															
☐ Rear of															
☐ Adjacent to															
☐ Directions															
GRAND HAVEN CITY MI 49417															
Apt./Suite/Room City State Zip Code															
Cross street or directions, as applicable															
C Incident Type *															
5312 Smoke Investigation															
Incident Type															
D Aid Given or Received*															
1 ☐ Mutual aid received															
2 ☐ Automatic aid recv.															
3 ☐ Mutual aid given															
4 ☐ Automatic aid given															
5 ☐ Other aid given															
N ☒ None															
Their FDID Their State															
Their Incident Number															
E1 Date & Times															
Midnight is 0000															
Check boxes if dates are the same as Alarm ALARM always required															
Date. Alarm * 05 31 2018 09:18:07															
ARRIVAL required, unless canceled or did not arrive															
☒ Arrival * 05 31 2018 09:22:55															
CONTROLLED Optional, Except for wildland fires															
☐ Controlled															
LAST UNIT CLEARED, required except for wildland fires															
☒ Last Unit															
☒ Cleared 05 31 2018 09:45:19															
E2 Shift & Alarms															
Local Option															
A 203															
Shift or Alarms District															
Platoon															
E3 Special Studies															
Local Option															
Special Study ID# Special Study Value															
F Actions Taken *															
86 Investigate															
Primary Action Taken (1)															
Additional Action Taken (2)															
Additional Action Taken (3)															
G1 Resources *															
☒ Check this box and skip this section if an Apparatus or Personnel form is used.															
Apparatus Personnel															
Suppression 0001 0004															
EMS															
Other															
☐ Check box if resource counts include aid received resources.															
G2 Estimated Dollar Losses & Values															
LOSSES: Required for all fires if known. Optional for non fires. None															
Property \$ 000,000															
Contents \$ 000,000															
PRE-INCIDENT VALUE: Optional															
Property \$ 000,000															
Contents \$ 000,000															
Completed Modules															
☐ Fire-2															
☐ Structure-3															
☐ Civil Fire Cas.-4															
☐ Fire Serv. Cas.-5															
☐ EMS-6															
☐ HazMat-7															
☐ Wildland Fire-8															
☒ Apparatus-9															
☒ Personnel-10															
☐ Arson-11															
H1* Casualties															
None															
Deaths Injuries															
Fire Service															
Civilian															
H2 Detector															
Required for Confined Fires.															
1 ☐ Detector alerted occupants															
2 ☐ Detector did not alert them															
U ☐ Unknown															
H3 Hazardous Materials Release															
N ☐ None															
1 ☐ Natural Gas: slow leak, no evacuation or HazMat actions															
2 ☐ Propane gas: <21 lb. tank (as in home BBQ grill)															
3 ☐ Gasoline: vehicle fuel tank or portable container															
4 ☐ Kerosene: fuel burning equipment or portable storage															
5 ☐ Diesel fuel/fuel oil: vehicle fuel tank or portable															
6 ☐ Household solvents: home/office spill, cleanup only															
7 ☐ Motor oil: from engine or portable container															
8 ☐ Paint: from paint cans totaling < 55 gallons															
0 ☐ Other: Special HazMat actions required or spill > 55gal., Please complete the HazMat form															
I Mixed Use Property															
NN ☐ Not Mixed															
10 ☐ Assembly use															
20 ☐ Education use															
33 ☐ Medical use															
40 ☐ Residential use															
51 ☐ Row of stores															
53 ☐ Enclosed mall															
58 ☐ Bus. & Residential															
59 ☐ Office use															
60 ☐ Industrial use															
63 ☐ Military use															
65 ☐ Farm use															
00 ☐ Other mixed use															
J Property Use* Structures															
131 ☐ Church, place of worship															
161 ☐ Restaurant or cafeteria															
162 ☐ Bar/Tavern or nightclub															
213 ☐ Elementary school or kindergarten															
215 ☐ High school or junior high															
241 ☐ College, adult education															
311 ☐ Care facility for the aged															
331 ☐ Hospital															
Outside															
124 ☐ Playground or park															
655 ☐ Crops or orchard															
669 ☐ Forest (timberland)															
807 ☐ Outdoor storage area															
919 ☐ Dump or sanitary landfill															
931 ☐ Open land or field															
341 ☐ Clinic, clinic type infirmary															
342 ☐ Doctor/dentist office															
361 ☐ Prison or jail, not juvenile															
419 ☐ 1-or 2-family dwelling															
429 ☐ Multi-family dwelling															
439 ☐ Rooming/boardng house															
449 ☐ Commercial hotel or motel															
459 ☐ Residential, board and care															
464 ☐ Dormitory/barracks															
519 ☐ Food and beverage sales															
936 ☐ Vacant lot															
938 ☐ Graded/care for plot of land															
946 ☐ Lake, river, stream															
951 ☐ Railroad right of way															
960 ☐ Other street															
961 ☐ Highway/divided highway															
962 ☐ Residential street/driveway															
539 ☐ Household goods, sales, repairs															
579 ☐ Motor vehicle/boat sales/repair															
571 ☐ Gas or service station															
599 ☐ Business office															
615 ☒ Electric generating plant															
629 ☐ Laboratory/science lab															
700 ☐ Manufacturing plant															
819 ☐ Livestock/poultry storage (barn)															
882 ☐ Non-residential parking garage															
891 ☐ Warehouse															
981 ☐ Construction site															
984 ☐ Industrial plant yard															
Lookup and enter a Property Use code only if you have NOT checked a Property Use box:															
Property Use 615															
Electric-generating plant															

K1 Person/Entity Involved ☐ Local Option ☐ Business name (if applicable) - - Area Code Phone Number

☐ Check This Box if same address as incident location. Then skip the three duplicate address lines.

Mr., Ms., Mrs. First Name MI Last Name Suffix

Number Prefix Street or Highway Street Type Suffix

Post Office Box Apt./Suite/Room City

State Zip Code -

☐ More people involved? Check this box and attach Supplemental Forms (NFIRS-1S) as necessary

K2 Owner ☐ Same as person involved? Then check this box and skip The rest of this section. ☐ Local Option ☐ Business name (if Applicable) - - Area Code Phone Number

☐ Check this box if same address as incident location. Then skip the three duplicate address lines.

Mr., Ms., Mrs. First Name MI Last Name Suffix

Number Prefix Street or Highway Street Type Suffix

Post Office Box Apt./Suite/Room City

State Zip Code -

L Remarks ☐ Local Option

Narrative Imported From NWS CAD Enterprise

Date: 5/31/2018 09:17:38 User: cislerm Narrative: caller saw on N side of building behind big green tank, poss saw smoke or vapor

Date: 5/31/2018 09:18:06 User: cislerm Narrative: heard a loud "zip" or a mini explosion or a lighting sound

Date: 5/31/2018 09:18:15 User: cislerm Narrative: caller is walking by

Date: 5/31/2018 09:18:25 User: cislerm Narrative: no smoke or flames seen now

Date: 5/31/2018 09:24:40 User: creasons Narrative: 2nd / franklin - without power

Date: 5/31/2018 09:26:16 User: creasons Narrative: BLP advsd and will send someone out

Date: 5/31/2018 09:26:22 User: creasons Narrative: 6610 will be command

Date: 5/31/2018 09:30:18 User: creasons Narrative: CMD - squirrel will be an issue, no fire at this point

Date: 5/31/2018 09:43:18 User: rasche Narrative: BLP ON SCENE

Date: 5/31/2018 09:45:09 User: creasons Narrative: 922-blp on scn

End of Narrative Imported From NWS CAD Enterprise

Called for a smoke investigation, smoke coming from near a green tank.

Arrived on scene of a medium 1 story commercial building. No smoke or fire showing from sides A,B,C,D.

Contact is made with caller and he is advising the smoke was coming from behind a green tank on the outside of the building, well away from the structure. Further investigation finds a

L Authorization

153 Rasch, Eric PSO III 05 31 2018
Officer in charge ID Signature Position or rank Assignment Month Day Year

☐ Check Box if same as Officer in charge. 183 Dilley, Matthew PSO I 05 31 2018
Member making report ID Signature Position or rank Assignment Month Day Year

07009	MI	MM 5	DD 31	YYYY 2018	1	18-0000640	000	Complete Narrative
FDID *	State *	Incident Date *			Station	Incident Number *	Exposure *	

Narrative:

Narrative Imported From NWS CAD Enterprise

Date: 5/31/2018 09:17:38 User: cislern Narrative: caller saw on N side of building behind big green tank, poss saw smoke or vapor

Date: 5/31/2018 09:18:06 User: cislern Narrative: heard a loud "zip" or a mini explosion or a lighting sound

Date: 5/31/2018 09:18:15 User: cislern Narrative: caller is walking by

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End of Narrative Imported From NWS CAD Enterprise

Called for a smoke investigation, smoke coming from near a green tank.

Arrived on scene of a medium 1 story commercial building. No smoke or fire showing from sides A,B,C,D.

Contact is made with caller and he is advising the smoke was coming from behind a green tank on the outside of the building, well away from the structure. Further investigation finds a dead squirrel at the base of a transformer. Everything appears to be intact around the transformer. BLP arrives on scene and they take over the scene. They will check things out, but state that power is not out to anyone. GHDPs units clear the scene with no further assistance needed.

07009 FDID	MI State	5 31 2018 Incident Date	1 Station	18-0000640 Incident Number	000 Exposure	Responding Units/Personnel

Unit	Notify Time	Enroute Time	Arrival Time	Cleared Time
922 Engine	09:19:16	09:19:16	09:22:55	09:45:19

Staff ID\Staff Name	Activity	Rank	Position	Role
183 Dilley, Matthew	Fire Related		Public Safe	

From: Amelia Pratt <apratt@miottawa.org>
Sent: Tuesday, September 28, 2021 10:42 AM
To: Savoy, Ariane
Cc: Lisa Olson
Subject: FOIA Request 70-03-20-399-006

EXTERNAL EMAIL

Hello, We have no records on file for 70-03-20-399-006

Thanks,
Amelia Pratt
Ottawa County Department of Public Health
Environmental Health Clerk
Office: (616) 393-5645
Fax: (616) 393-5643



Empowered to **Solve Problems** with **Integrity** and **Empathy** to inspire **Trust**.

We value your feedback! Customer service is important to us, please [CLICK HERE](#) to complete a brief survey about your experience.

Confidentiality notice: This message, including any attachments, is intended solely for the use of authorized recipient(s) and may contain confidential, privileged and/or Protected Health Information as such term is defined under the Health Insurance Portability and Accountability Act of 1996 (HIPAA). Any unauthorized review, use, disclosure or distribution of this communication(s) is expressly prohibited. If you are not an authorized recipient, please contact the sender by reply e-mail and destroy any and all copies of the original message.

Schram, Tammy (DEQ)

From: Stringer, Darlene (DNRE)
Sent: Tuesday, March 30, 2010 9:40 AM
To: Schram, Tammy (DNRE)
Subject: FW: USCG Station Grand Haven Data/Maps
Attachments: Station Grand Haven Laboratory Results - February 2010.xls; Utility Clearance Map-Proposed Groundwater Monitoring Wells-2010.pdf; USCG Grand Haven TPH Contour - Winter 2010.pdf; Feb 2010 Contour Map.pdf

Please scan into system for 650 South Harbor Drive, U.S. Coast Guard Parking Lot site. Thanks.

From: Arthur Peitsch [mailto:Arthur.J.Peitsch@us.mwhglobal.com]
Sent: Monday, March 29, 2010 1:51 PM
To: Stringer, Darlene (DNRE)
Cc: Pearson, Sara (DNRE); Lynn.M.Keller@uscg.mil
Subject: USCG Station Grand Haven Data/Maps

Hi Darlene,

Please find attached the updated results table, groundwater contour map, TPH-DRO contour map, and proposed well location map. The proposed well location map might be a little difficult to read, so we've included the proposed well locations on the TPH-DRO contour map as well.

If you have any questions, please feel free to contact me.

Regards,
Art

Arthur Peitsch
Senior Environmental Scientist

✕ image001

MWH Americas, Inc.
35055 W. Twelve Mile Road, Suite 140
Farmington Hills, MI 48331

tel: 248.522.8325
fax: 248.522.8344
email: arthur.j.peitsch@mwhglobal.com

10/11/2011

PART 201 GROUNDWATER CRITERIA											
Sample ID	Drinking Water	GSI	ReComm	Direct Contact	Flammability/Explosivity						
	Water	Indoor Air	Chimera	Screening Level							
MW-1											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
Benzo (b) pyrene	5	ID	5,100	5,100	ID						
Benzo (k) fluoranthene	10	ID	1,500	1,500	ID						
Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
Fluoranthene	200	ID	2,100	2,100	ID						
Fluorene	880	ID	2,000	2,000	ID						
Indeno (1,2,3-cd) pyrene	2,000	ID	2,000	2,000	ID						
1-methylpyrene	NA	NA	NA	NA	ID						
2-methylpyrene	280	ID	25,000	25,000	ID						
Phenanthrene	50	ID	3,900	3,900	ID						
Pyrene	140	ID	1,000	1,000	ID						
TriH-DRO (ug/L)	NA	NA	NA	NA	NA						
Meats (mg/L)											
Arsenic (dissolved)	10	150	NA	NA	ID						
Barium (dissolved)	2,000	670*	4,300	4,300	ID						
Cadmium (dissolved)	5	3*	190,000	190,000	ID						
Chromium (dissolved)	100*	100*	460,000	460,000	ID						
Copper (dissolved)	1,000	13*	7,400,000	7,400,000	ID						
Lead (dissolved)	4	18*	580,000	580,000	ID						
Lead (total)	2	0.0013	56	56	ID						
Mercury (dissolved)	50	5	970,000	970,000	ID						
Selenium (dissolved)	34	0.2	1,500,000	1,500,000	ID						
Zinc (dissolved)	2,400	170*	110,000,000	110,000,000	ID						
Arsenic (total)	10	150	NA	NA	ID						
Barium (total)	2,000	670*	14,000,000	14,000,000	ID						
Cadmium (total)	5	3*	NA	NA	ID						
Chromium (total)	100	100*	460,000	460,000	ID						
Copper (total)	1,000	13*	7,400,000	7,400,000	ID						
Iron (total)	300	NA	580,000,000	580,000,000	ID						
Lead (total)	2	0.0013	56	56	ID						
Mercury (total)	50	5	970,000	970,000	ID						
Selenium (total)	34	0.2	1,500,000	1,500,000	ID						
Silver (total)	2,400	170*	110,000,000	110,000,000	ID						
Neutral Attenuation Parameters											
Alkalinity (mg/L)	NA	NA	NA	NA	NA						
Methane (ug/L)	ID	NA	ID	ID	520						
Nitrate-N (mg/L)	10,000	NA	310,000,000	310,000,000	ID						
Nitrite-N (mg/L)	1,000	NA	ID	ID	ID						
Sulfate (mg/L)	250,000	NA	ID	ID	ID						
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA						
MW-2											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
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Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
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2-methylpyrene	280	ID	25,000	25,000	ID						
Phenanthrene	50	ID	3,900	3,900	ID						
Pyrene	140	ID	1,000	1,000	ID						
TriH-DRO (ug/L)	NA	NA	NA	NA	NA						
MW-3											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
Benzo (b) pyrene	5	ID	5,100	5,100	ID						
Benzo (k) fluoranthene	10	ID	1,500	1,500	ID						
Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
Fluoranthene	200	ID	2,100	2,100	ID						
Fluorene	880	ID	2,000	2,000	ID						
Indeno (1,2,3-cd) pyrene	2,000	ID	2,000	2,000	ID						
1-methylpyrene	NA	NA	NA	NA	ID						
2-methylpyrene	280	ID	25,000	25,000	ID						
Phenanthrene	50	ID	3,900	3,900	ID						
Pyrene	140	ID	1,000	1,000	ID						
TriH-DRO (ug/L)	NA	NA	NA	NA	NA						
MW-4											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
Benzo (b) pyrene	5	ID	5,100	5,100	ID						
Benzo (k) fluoranthene	10	ID	1,500	1,500	ID						
Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
Fluoranthene	200	ID	2,100	2,100	ID						
Fluorene	880	ID	2,000	2,000	ID						
Indeno (1,2,3-cd) pyrene	2,000	ID	2,000	2,000	ID						
1-methylpyrene	NA	NA	NA	NA	ID						
2-methylpyrene	280	ID	25,000	25,000	ID						
Phenanthrene	50	ID	3,900	3,900	ID						
Pyrene	140	ID	1,000	1,000	ID						
TriH-DRO (ug/L)	NA	NA	NA	NA	NA						
MW-5											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
Benzo (b) pyrene	5	ID	5,100	5,100	ID						
Benzo (k) fluoranthene	10	ID	1,500	1,500	ID						
Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
Fluoranthene	200	ID	2,100	2,100	ID						
Fluorene	880	ID	2,000	2,000	ID						
Indeno (1,2,3-cd) pyrene	2,000	ID	2,000	2,000	ID						
1-methylpyrene	NA	NA	NA	NA	ID						
2-methylpyrene	280	ID	25,000	25,000	ID						
Phenanthrene	50	ID	3,900	3,900	ID						
Pyrene	140	ID	1,000	1,000	ID						
TriH-DRO (ug/L)	NA	NA	NA	NA	NA						
MW-6											
UDC-1 (ug/L)											
Benzene	5	300	5,690	11,000	68,000						
Ethylbenzene	74	18	110,000	17,000	48,000						
1,2,4-TMB	63	47	56,000	61,000	56,000						
1,3,5-TMB	72	15	61,000	61,000	56,000						
Xylenes	790	140	530,000	61,000	61,000						
Xylenes (total)	280	35	190,000	190,000	70,000						
c-o-xylene											
PAHs (ug/L)											
Acenaphthene	1,300	19	4,200	4,200	ID						
Acenaphthylene	52	ID	3,900	3,900	ID						
Benzo (a) anthracene	23	ID	5,100	5,100	ID						
Benzo (b) pyrene	5	ID	5,100	5,100	ID						
Benzo (k) fluoranthene	10	ID	1,500	1,500	ID						
Benzo (ghi) perylene	10	NA	1,000	1,000	ID						
Chrysene	16	ID	1,000	1,000	ID						
Fluoranthene	200	ID	2,100	2,100	ID						
Fluorene	880	ID	2,000	2,000	ID						
Indeno (1,2,3-cd) pyrene	2,000	ID	2,000	2,000	ID						
1-methylpyrene	NA	NA	NA	NA	ID						
2-methylpyrene	280										

NOTES:

1. *hydrophobic* - repellant for life
2. *upd.* - monomers per liter
3. **VOCs**, volatile organic compounds
4. **PAHs**, polycyclic aromatic hydrocarbons
5. **TMB**, trimethylbenzene
6. **TPH-DFO**, total petroleum hydrocarbons - diesel range organics
7. **TPH-LFO**, total petroleum hydrocarbons - light range organics
8. **B**, compound detected in associated blank
9. **B**, compound detected in associated blank
10. **NS** - parameter not analyzed or well not sampled
11. * **Value** depends on the hardness of the receiving surface water. Criteria were calculated using the default value for hardness for surface waters of the southern lower peninsula (150 mg/l) using method described in Footnote G of Part 20 of the *CR* Memo No. 1.

CRITERIA:

Criteria is Michigan Part 201 of the Natural Resources and Environmental Protection Act.

1. **1894 Public Act 451**, as amended, **Residential and Industrial/Commercial Generic Cleanup Criteria and Screening Levels**
1. **GS1**, Groundwater Surface Water Interface Criteria
1. **Residential and Industrial/Commercial Generic Cleanup Criteria**
1. **Residential and Industrial/Commercial Generic Cleanup Criteria**
1. **Residential and Industrial/Commercial Generic Cleanup Criteria**
1. **NIV**, Criteria not available under MDEQ Part 201, hazardous substance is not likely to volatilize under most conditions
1. **NA**, Criteria not available under MDEQ Part 201, inadequate data to develop criterion
1. **NA**, Not Available/Not Applicable

TABLE 2
Summary of Groundwater Analytical Results
Through February 2010
USCG Station Grand Haven
Grand Haven, Michigan
Page 2 of 3

[illegible]

- NOTES:
1. VOCs - volatile organic compounds
2. SVOCs - semi-volatile organic compounds
3. VOCs: polynuclear aromatic hydrocarbons
4. PAHs: polynuclear aromatic hydrocarbons
5. TMB: trimethylbenzene
6. 1741-DIBO: total petroleum hydrocarbons - diesel range organics
7. 1741-DIBO: total petroleum hydrocarbons - diesel range organics
8. B: Compound detected in associated blank
9. B: Compound detected in associated blank
10. B: Compound detected in associated blank
11. * Value depends on the hardness of the receiving surface water. Criteria were calculated using the default value for hardness for surface waters of the southern lower peninsula (150 mg/L) using method described in footnote G of Part 201.
12. RSD: Root Mean Sq. %

CRITERIA:

Criteria is Michigan Part 201 of the Natural Resources and Environmental Protection Act, 1984 Public Act 451, as amended. Residential and Industrial/Commercial Generic Cleanup Criteria and Screening Levels

1. GSI: Groundwater Site Specific Values Criteria
2. GSI: Groundwater Site Specific Values Criteria
3. Indoor Air: Groundwater volatilization to Indoor Air: Inhalation Criteria
4. Indoor Air: Groundwater volatilization to Indoor Air: Inhalation Criteria
5. NLU: Criteria not available under MDEQ Part 201. Inadequate data to develop criterion
6. NLU: Criteria not available under MDEQ Part 201. Inadequate data to develop criterion
7. NA: Not Available/not Applicable

©, Effectiveness and Safety of Chemopreventive Agents: Current Status and Future Prospects - February 2016 slide

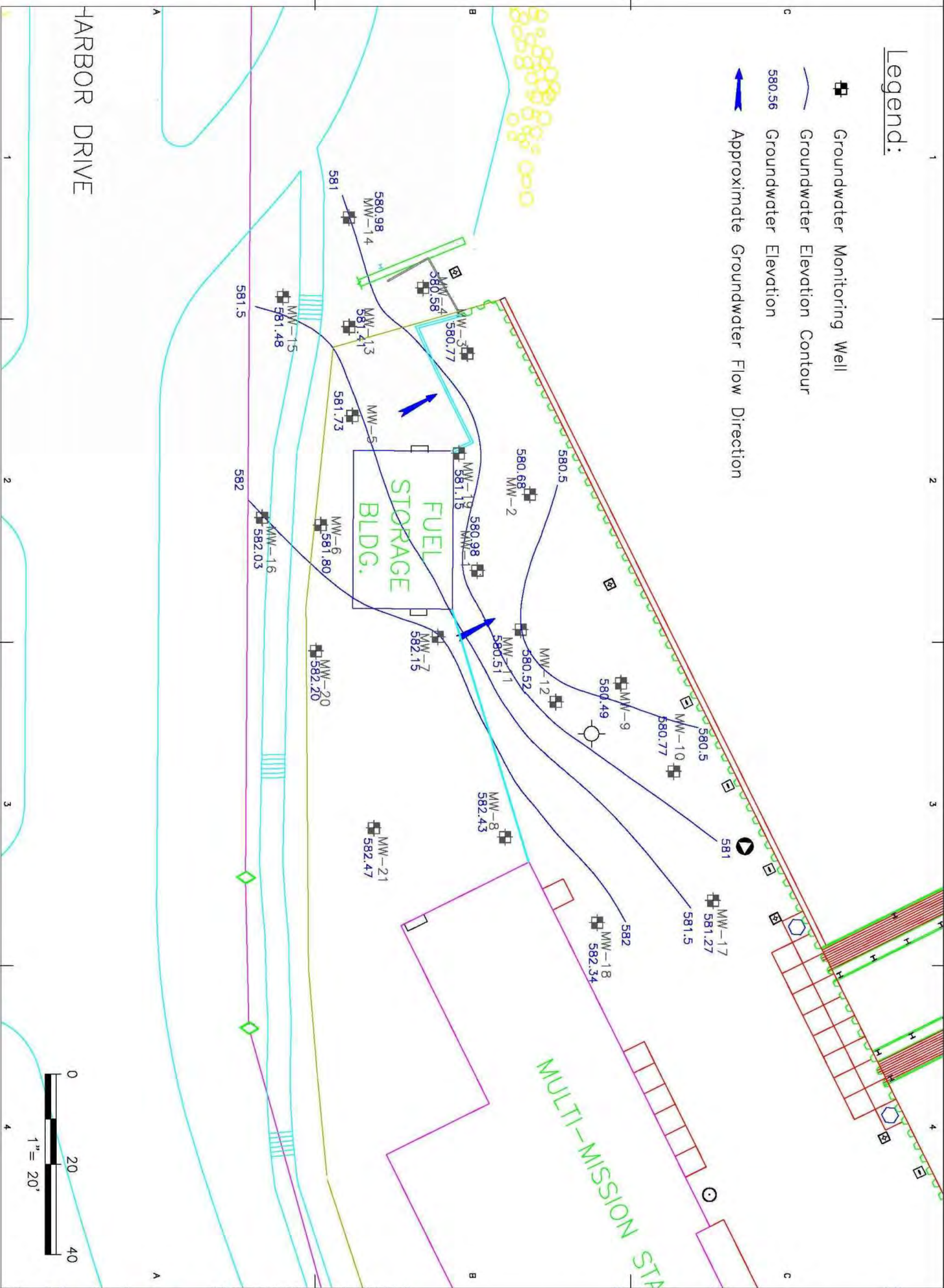
Sample ID	Drinking Water	GSI	PART 201 GROUNDWATER CRITERIA			Flammability/Explosivity Screening Level	MM-19	MM-20	MM-21
			Res/Comm Direct Contact Criteria	Screening Level	Screening Level				
VOCs (ug/L)									
Benzene	5	200	1,560	11,000	68,000	Dec-09 -0.16	Nov-09 -0.16	Feb-10 -0.16	
Ethylbenzene	74	18	110,000	170,000	43,000	-0.28	-0.28	-0.28	
1,2,4-TMB	63	17	56,000	56,000	56,000	-0.24	-0.24	-0.24	
1,3,5-TMB	72	45	61,000	61,000	ID	-0.19	-0.19	-0.19	
Toluene	140	140	550,000	550,000	61,000	-0.20	-0.20	-0.20	
Xylenes (total)	280	35	190,000	190,000	70,000	-0.10	-0.10	-0.10	
m-Xylene						-0.50	-0.50	-0.50	
o-Xylene						-0.50	-0.50	-0.50	
PAHs (ug/L)									
Acenaphthene	1,300	19	4,200	4,200	ID	-0.16	-0.16	-0.16	
Acenaphthylene	52	ID	3,900	3,900	ID	-0.13	-0.13	-0.13	
Anthracene	43	ID	50	50	ID	-0.082	0.19	0.08	
Benzo (a) anthracene	2.1	ID	NLV	9.4	ID	-0.010	-0.010	-0.010	
Benzo (a) pyrene	5	ID	NLV	1.0	ID	-0.031	-0.030	-0.031	
Benzo (b) fluoranthene	1.5	ID	ID	1.5	ID	-0.021	-0.020	-0.031	
Benzo (k) fluoranthene	1.0	NA	NLV	1.0	ID	-0.021	-0.020	-0.020	
Benzo (ghi) perylene	1.0	NA	NLV	1.0	ID	-0.021	-0.020	-0.020	
Chrysene	1.8	ID	NLV	1.0	ID	-0.041	-0.041	-0.041	
Dibenz (a,h) anthracene	2.00	ID	NLV	2.00	ID	-0.031	-0.031	-0.031	
Fluorene	210	16	210	210	ID	-0.010	-0.010	-0.010	
Indeno (1,2,3-cd) pyrene	880	12	2,000	2,000	ID	-0.10	0.19	-0.10	
1-Methylpyrene	2,000	ID	NLV	2,000	NA	-0.031	-0.030	-0.031	
2-Methylpyrene	NA	NA	NA	NA	NA	-0.17	-0.17	0.2	
2-Methylanthracene	280	ID	25,000	25,000	NA	-0.18	-0.17	-0.17	
Naphthalene	52	13	31,000	31,000	ID	-0.22	-0.22	-0.22	
Phenanthrene	140	2	1,000	1,000	ID	-0.031	0.080	-0.031	
Pyrene	140	ID	140	140	ID	-0.052	0.054	0.11	
TPH-DNO (ug/L)	NA	NA	NA	NA	NA	29.8	<24	880	
Metals (mg/L)									
Arsenic (dissolved)	10	150	NLV	4,300	ID	0.87	-0.80	1.8	
Barium (dissolved)	2,000	670*	NLV	14,000,000	ID	18.6	14.6	33.3	
Cadmium (dissolved)	5	3*	NLV	180,000	ID	-0.27	-0.27	-0.27	
Chromium (dissolved)	100	100*	NLV	480,000	ID	1.7	0.93	1.8	
Copper (dissolved)	1,000	13*	NLV	7,400,000	ID	<20	<10	3.2	
Iron (dissolved)	300	NA	NLV	56,000,000	ID	213	<10	598	
Lead (dissolved)	4	18*	NLV	ID	ID	1.6	1.8	1.8	
Mercury (dissolved)	2	0.0013	56	56	ID	-0.040	-0.040	-0.040	
Selenium (dissolved)	50	5	NLV	970,000	ID	2.3	<1.3	<1.3	
Silver (dissolved)	34	12	NLV	1,500,000	ID	-0.80	-0.80	-0.90	
Zinc (dissolved)	2,400	170*	NLV	110,000,000	ID	-0.80	-0.80	17.8	
Neutral Attenuation Parameters									
Arsenic (total)	10	150	NLV	4,300	ID	-0.80	-0.80	3.6	
Barium (total)	2,000	670*	NLV	14,000,000	ID	14.6	14.8	28.7	
Cadmium (total)	5	3*	NLV	180,000	ID	-0.16	-0.16	2.6	
Chromium (total)	100	100*	NLV	480,000	ID	1.28	2.1	2.4	
Copper (total)	1,000	13*	NLV	7,400,000	ID	<19	<1.9	6.1	
Iron (total)	300	NA	NLV	56,000,000	ID	234	302	5,400	
Lead (total)	4	18*	NLV	56	ID	<1.5	17.7	18.8	
Mercury (total)	2	0.0013	56	56	ID	-0.040	-0.040	-0.040	
Selenium (total)	50	5	NLV	970,000	ID	<2.3	<2.3	<2.3	
Silver (total)	34	12	NLV	1,500,000	ID	<3.2	<1.0	<1.0	
Zinc (total)	2,400	170*	NLV	110,000,000	ID	17.1	0.84	27.30	
Neutral Attenuation Parameters									
Alkalinity (mg/L)	NA	NA	NA	NA	NA	234	165	277	
Methane (ug/L)	NA	NA	NA	ID	520	19	340	480	
Nitrate-N (mg/L)	10,000	NA	NLV	310,000,000	ID	2.30	2.2	0.86	
Nitrite-N (mg/L)	1,000	NA	NLV	ID	ID	<0.070	<0.070	0.07	
Sulfate (mg/L)	250,000	NA	NLV	ID	ID	16	14	17	
Sulfide (mg/L)	NA	NA	NA	NA	NA	<1.0	<1.0	<1.0	
Total Organic Carbon (mg/L)	NA	NA	NA	NA	NA	4	2.8	12	

NOTES:
1. mg/L - milligrams per liter
2. ug/L - micrograms per liter
3. VOCs: volatile organic compounds
4. PAHs: polynuclear aromatic hydrocarbons
5. THM: trihalomethane
6. THM5: trihalomethane, trihalomethane, trihalomethane, trihalomethane, trihalomethane
7. L: estimated concentration
8. B: Compound detected in associated blank
9. Boxed data indicates an exceedance of criteria
10. NS - parameter not analyzed or well not sampled
11. * Value depends on the hardness of the receiving surface water. Criteria were calculated using the default value for hardness for surface waters of the southern lower peninsula (150 mg/L) using method described in footnote G of Part 201, RCOD Op Memo No. 1.

CRITERIA:
Criteria is Michigan Part 201 of the Natural Resources and Environmental Protection Act, 1994 Public Act 451, as amended; Residential and Industrial-Commercial Generic Cleanup Criteria and Screening Levels
1. GSI: Groundwater Surface Water Interface Criteria
2. Res/Comm: Residential/Commercial
3. Indoor Air: Groundwater Air Quality Criteria
4. NLV: Criteria not available under MDEQ Part 201, hazardous substances is not likely to violate under most conditions
5. ID: Criteria not available under MDEQ Part 201, inadequate data to develop criterion
6. NA: Not Available/Not Applicable

Legend:

- Groundwater Monitoring Well
- Groundwater Elevation Contour
- 580.56 Groundwater Elevation
- Approximate Groundwater Flow Direction



CONSULTANTS



U. S. COAST GUARD

CIVIL ENGINEERING UNIT

CLEVELAND

U.S.C.G. CLEVELAND

1240 EAST 9TH STREET

CLEVELAND, OH 44199-2000

ISSUE

MARK	DATE	DESCRIPTION

A/E PROJECT NO.: 13AUSG011909334A000000

CAD FILE NAME: 08/25/2011

DESIGNED BY: TWR

DRAWN BY: STR

EDITED BY: SAB

CHECKED BY:

SCALE: AS SHOWN

PLOT SCALE:

SHEET TITLE:

STATION GRAND HAVEN

GRAND HAVEN

ANCHORAGE

GROUNDWATER ELEVATION

CONTOUR MAP - FEBRUARY 2010

REVIEWED BY:

REVIEWED BY:

PROJECT ENG. BRANCH CHIEF

TECH. DIRECTOR

APPROVING OFFICER:

DATE:

PROJECT NUMBER

DRAWING NUMBER

7801-B

DISCIPLINE/SHT NO

C-03

SHEET 3 OF 6

Existing Groundwater Monitoring Well	Proposed Groundwater Monitoring Well

500–1,000 µg/L
1,000–2,000 µg/L



M/E PROJECT NO:	011000001998A\34\prod
CAD FILE NAME:	06257001
DESIGNED BY:	TWK
DRAWN BY:	STR
EDITED BY:	SAB
CHECKED BY:	
SCALE: AS SHOWN	PLOT SCALE:
SHEET TITLE	

STATION GRAND HAVEN
GRAND HAVEN MICHIGAN
Proposed Monitoring Well location
April 2010

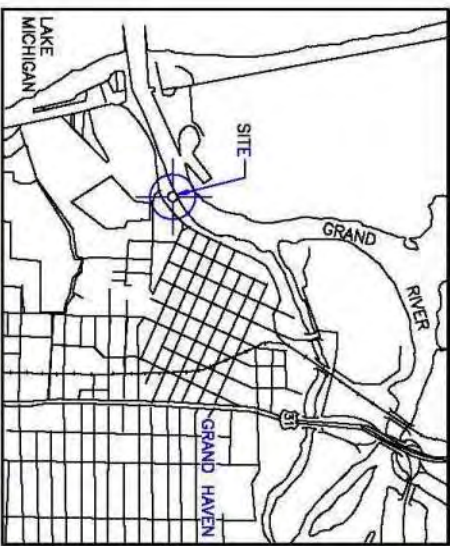
REVIEWED BY:	REVIEWED BY:	REVIEWED BY:
PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR
____ APPROVING OFFICER ____		____ DATE ____
PROJECT NUMBER	DRAWING NUMBER	
DISCIPLINE/SHT NO SHEET OF		

REAL PROPERTY FACILITY NAME

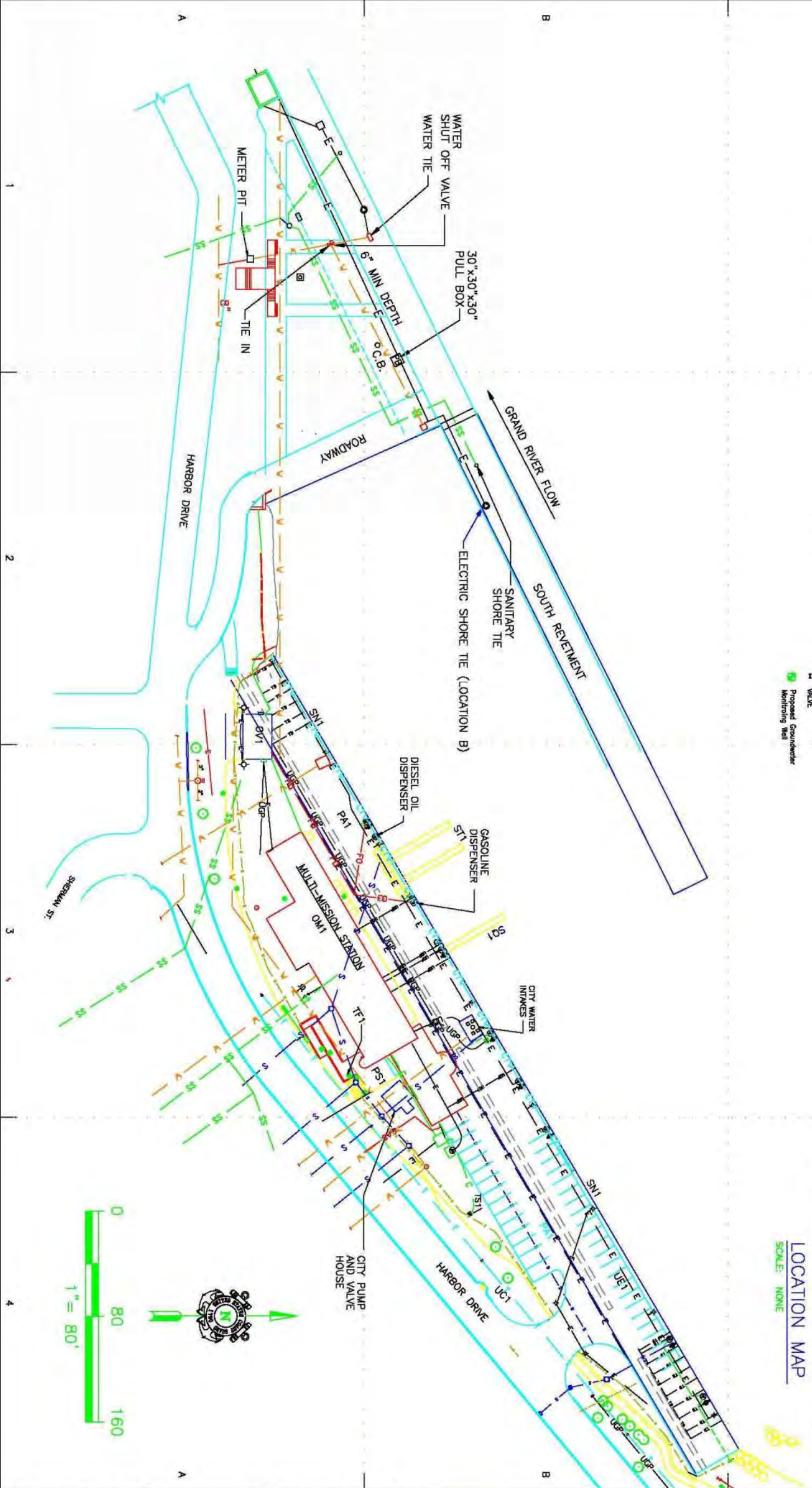
REF ID	FACILITY NAME
LL	LAND
DM1	MULTI PURPOSE BUILDING
DV1	FUEL STORAGE BUILDING
PA1	PAVING
PS1	SIDE WALKS
SN1	SSP BULKHEAD
SRI	FINGER PIER
ST1	TRAVEL LIFT PIERS
TS1	FLAGPOLE
UC1	175' MONDPOLE
UE1	TELEPHONE LINES
UL1	ELECTRICAL LINES
UO1	GAS-TNK-AG-550-GAL (INSIDE DV1)
US1	DSL-TNK-AG-1K-GAL (INSIDE DV1)
US2	SANITARY LINES
UV1	STORM DRAIN
UZ1	POTABLE WATER LINES
	WASTE DIL-TNK-AG-200-GAL (INSIDE DV1)

LEGEND

E	ELECTRICAL
GAS	GAS
PW	POTABLE WATER
PRO	PROPERTY
SS	SANITARY SEWER
S	STORM SEWER
T	TELEPHONE
COM	COMMUNICATIONS
CTV	CABLE TELEVISION
FO	FUEL & OIL
UGP	UNKNOWN UNDERGROUND PIPE
TB	TIE BACK
■	CATCH INLET
●	CLEAN OUT
□	ELECTRIC METER
⬢	FIRE HYDRANT
⬢	FLAG POLE
⬢	LIGHT POLE
●	MANHOLE: SANITARY SEWER
●	MANHOLE: STORM SEWER
●	MONUMENT
⬢	POWER POLE
⬢	TELEPHONE LOCATION
■	TRANSFORMER
⬢	VALVE
●	Proposed Groundwater Monitoring Well



LOCATION MAP
SCALE: NONE



U. S. COAST GUARD
CIVIL ENGINEERING UNIT
CLEVELAND

USCG, CEU CLEVELAND
1240 EAST 9TH STREET
CLEVELAND, OH 44118-2060

MARK	DATE	DESCRIPTION
01	03/24/08	UTILITY LAYOUT

A/E PROJECT NO.	
CAD FILE NAME	09-6757D
DESIGNED BY	STR
DRAWN BY	SAB
EDITED BY	
CHECKED BY	

SCALE AS SHOWN	PLOT SCALE

SHEET TITLE
STATION GRAND HAVEN
GRAND HAVEN
MICHIGAN

UTILITY LAYOUT MAP

REVIEWED BY:	REVIEWED BY:

PROJECT ENG.	BRANCH CHIEF	TECH. DIRECTOR

APPROVING OFFICER	DATE

PROJECT NUMBER	DRAWING NUMBER

DISCIPLINE/SHT NO	SHEET 6 OF 5

C-06

Appendix 9

Table 3 - Oil/Chemical Storage Containers and Secondary Containment

Map ID	Facility Area	Oil Storage Container	Type of Oil	Shell Capacity (gal)	Total Quantity (gal)	Secondary Containment Method	Secondary Containment Capacity
1	Third Floor Oil Storage	(2) 250-gallon Metal AST	Alkalube	256	512	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(3) 250-gallon Metal AST	Fuel Oil	256	768	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(1) 1,048-gallon Metal AST	Used Oil	1,048	1,048	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(4) Metal AST	Heavy Oil	381	1,524	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(2) Metal AST	Used Oil	381	762	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(1) Johnston Tank ¹	Fuel Oil	1,375	1,375	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(1) Tank No. 8 ¹	Fuel Oil	550	550	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(1) Tank No. 9 ¹	Fuel Oil	550	550	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(1) Metal AST ¹	Light Oil	426	426	Floor drains to oil water separator	NA
1	Third Floor Oil Storage	(2) Metal AST	New Oil	381	1,143	Floor drains to oil water separator	NA
2	Basement	(1) Drum	Used Oil	55	55	Floor drains to oil water separator	NA
2	Basement	(1) 314-gallon Metal AST	Waste Fuel Oil	314	314	Floor drains to oil water separator	NA
2	Basement	(1) 718-gallon Metal AST	Heavy Oil	718	718	Floor drains to oil water separator	NA
2	Basement	(1) 718-gallon Metal AST	Light Oil	718	718	Floor drains to oil water separator	NA
2	Basement	(1) No. 2 Day Tank	Light Oil	412	412	Floor drains to oil water separator	NA
2	Basement	(1) No. 5 Day Tank	Light Oil	474	474	Floor drains to oil water separator	NA
2	Basement	(1) No. 6 Day Tank	Light Oil	465	465	Floor drains to oil water separator	NA
2	Basement	(1) No. 7 Day Tank	Light Oil	555	555	Floor drains to oil water separator	NA

Table 3 - Oil/Chemical Storage Containers and Secondary Containment

Map ID	Facility Area	Oil Storage Container	Type of Oil	Shell Capacity (gal)	Total Quantity (gal)	Secondary Containment Method	Secondary Containment Capacity
2	Basement	(1) Bowser Tank	Lubricating Oil	69	69	Floor drains to oil water separator	NA
3	Outside	(1) 30,000-gallon Metal AST	Diesel Fuel	30,000	30,000	Double-walled tank, Oil water Separator	>30,000
4	First Floor Oil Storage	(2) Drums	Various oils	55	110	Floor drains to oil water separator	NA
5	Power Generating Area	(4) Bowser Tank	Lubricating Oil	69	276	Floor drains to oil water separator	NA
Fluid-Filled Equipment³							
5	Power Generating Area	(5) Diesel Engines	Diesel Fuel & Various Oils	1,000	5,000	Floor drains to oil water separator	NA
6	Substation	(2) Autotransformers	Mineral	1,242	2,484	Oil water separator	NA
6	Substation	(1) Gen OCB #1	Mineral	110	110	Oil water separator	NA
6	Substation	(1) Emergency Start Up 7.2 kV Transformer	Mineral	202	202	Oil water separator	NA
Total Storage Capacity					50,620		

¹ Tank remains empty but is present and installed at the site

² Number of drums, totes, and 5-gallon bucket containers may vary depending on production needs and product delivery.

³ Other oil containing equipment is present on the Site in quantities less than 55 gallons



Piping trench covers in basement



Used oil absorbent drum in basement



Piping connection in basement



Engine diesel fuel reservoir in basement



Pipe in basement leading out of north side of building



Groundwater accumulation in basement



Groundwater accumulation in basement



Groundwater in basement flowing into floor drain



Manhole covers in basement



Electrical transformers outside south side of building



Oil spinners on first floor



Diesel engines



Diesel engines viewed from 3rd floor mezzanine



Water treatment chemicals near diesel engine



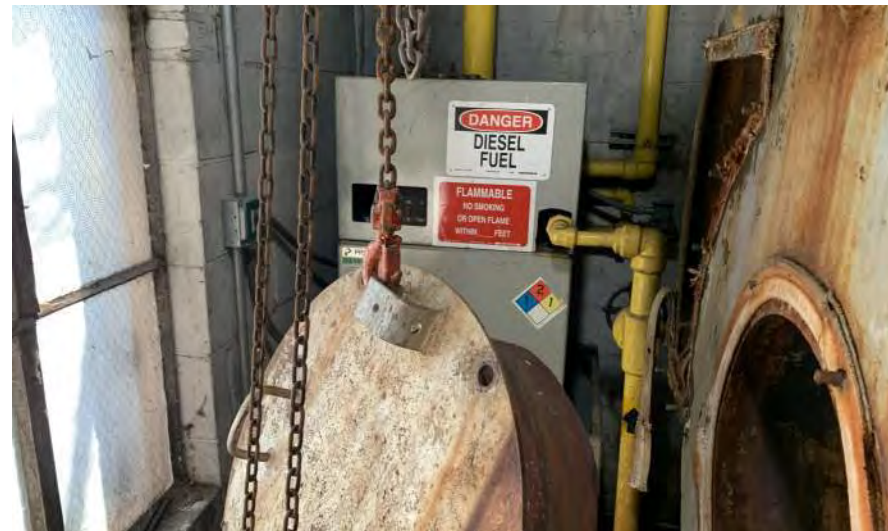
Water treatment chemicals in boiler room



Boiler in boiler room



Boiler feed tank in boiler room



Diesel fuel reservoir in boiler room



Empty tanks on third floor mezzanine



Empty heavy oil tanks on third floor mezzanine



Empty dirty oil and new oil tanks on third floor mezzanine



Empty new oil tanks on third floor mezzanine



Empty heavy oil and fuel oil tanks on third floor mezzanine



Empty used oil tank on third floor mezzanine



Used oil discharge pipe on second floor mezzanine



Parking lot east of building with adjacent condominiums in background



Diesel fuel AST facing northeast



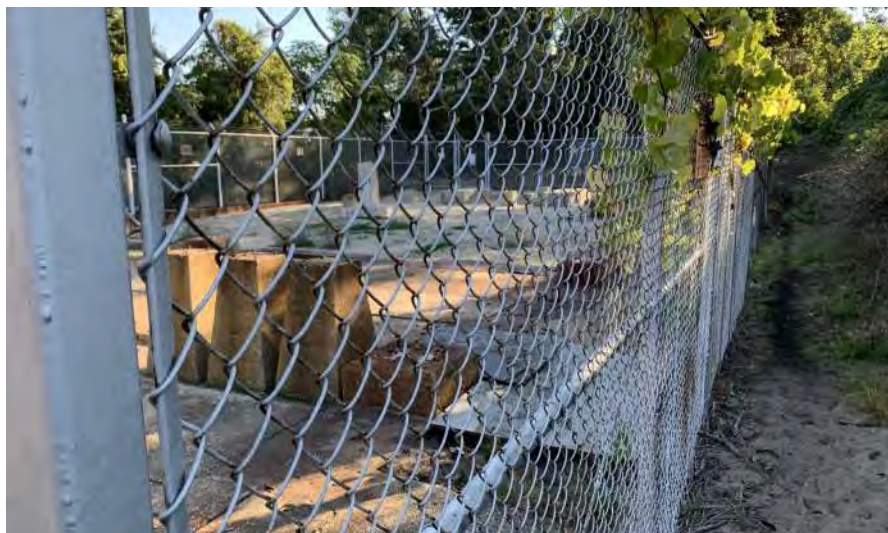
Diesel fuel AST facing southwest



North side of building facing west



Oil/water separators west of building



Former electrical substation



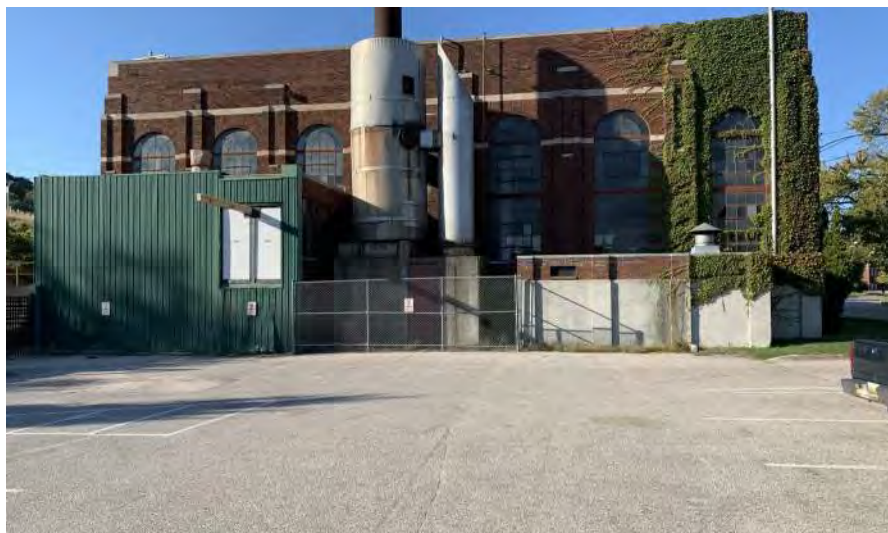
Site building facing northwest with gas house in foreground



Interior of gas house



West side of building facing northeast



East side of building facing west



USCG adjacent north, facing southwest



Grand River adjacent north, facing northeast



Property adjacent west facing west



Property adjacent south, facing south

Appendix 10

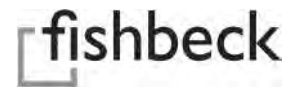
Phase I ESA Interview Form



PROJECT NAME	Ottawa Co/BRA – GHBLP Diesel Plant	PROJECT NUMBER	211365
INTERVIEW DATE	10/7/2021	INITIALS	TB

Question & Response		
Interviewee: Paul Cederquist		
Telephone:		
Connection with Site: GHBLP – Environmental Compliance Specialist		
Years Familiar with Site: About 10.5 years		
Current Site Use: Plant retired June 1, 2020. All oil storage tanks, diesel fuel tanks and reservoirs have been emptied (denoted by red “X” on tanks). Last engine taken out of service and all oils/fuels drained. Last transformer in substation removed.		
Historical Site Use: Same as 2019 interview. Diesel plant since 1930s, originally coal-fired steam plant in parking lot east of plant		
Current & Past Adjoining/Surrounding Property Use: Same as 2019 interview. As observed and documented		
Potable Water Supply: City		
Current or Former Wells: Same as 2019 interview. Monitoring wells west and north of building for 2005 release		
Location: West and North of building		Sampled: Yes – annually
Sewage Disposal: City sanitary		
Current Wastewater (Types & Disposal): NPDES permit still active and being renewed. Only discharge at this time is groundwater infiltrating into basement that discharges into floor drains. Discharge to oil/water separators west of building then to Grand River at Outfall 002B. Sampled monthly, no issues. Outfall 002A was for engine cooling water and no longer receives cooling water.		
Former Wastewater (Types & Disposal): From 2019 interview. Groundwater as discussed above and non-contact cooling water for engines. Boiler blowdown and sanitary WW to city sanitary		
Current or Former Septic Systems: From 2019 interview - No		

Phase I ESA Interview Form



Question & Response		
Hazardous Substance/Petroleum Products -Type, Quantity, Storage, and Use: All tanks have been emptied. Some water treatment chemicals for boiler still onsite. Former haz. substances/petroleum product storage included in table provided during 2019 interview		
Storage Tanks (Current and Former): Yes – as summarized in table.		
Size: Varies	15b	Content: All have been emptied
Releases: Small in past. No new releases	15d	Age: Varies
Testing: NA		
Pools of Liquids: No		
Abandoned Drums/Tanks/Landfill: No		
Any Burning, Burying, or Releases on Property or Adjacent Properties: no/not aware		
Any Fill Soil on Property or Adjacent Properties: No/not aware		
PCBs: From 2019 interview. Study conducted in early 2000s indicated no PCBs. Last remaining transformer in substation has been removed.		
Heating & Cooling System (Including Fuel): Currently only electric heaters in use. Boiler has been dismantled and is currently inoperable. But could be fired up again if city decides to use again		
Drains or Sumps: Drains to oil/water separator then to river under NPDES permit. Outfall tested monthly, no issues.		
Pits/Ponds/Lagoons: From 2019 interview - no		
Current Solid Waste Practices: From 2019 interview – no hazardous waste, used oil and absorbents removed by contractor		
Former Solid Waste Practices: NA		
Knowledge of Site-Specific Documents:		
Prior ESAs: Yes, dated January 2020. Fishbeck also did compliance audit in 1999		
Environmental Audit Reports: Yes		
Environmental Permits: NPDES permit. Air permit has been voided		
Storage Tank Registration: From 2019 - Large diesel AST registered		
Employee Right-to-Know Program, Safety Data Sheets (SDSs): Yes		
PIPP, SPCC, HWCP, SWP ³ : From 2019 interview. Site has ICP – SPCC and SWPPP		
Safety Plans: NA		

Phase I ESA Interview Form



Question & Response
Hydrogeological Reports: Yes – 2005 release investigation
Correspondence from Regulation Agencies: From 2019 interview – Permits inspections, etc.
Hazardous Waste Notices or Reports: From 2019 interview - No
Geotechnical Studies: From 2019 interview - No
Any Environmentally Related Legal Proceedings Involving the Property: From 2019 interview - No

Appendix 11

ASTM Standard	Fishbeck
X4.1 Summary	1.0 Summary
X4.2 Introduction	2.0 Introduction
X4.2.1 Purpose	2.1 Purpose
X4.2.2 Detailed Scope-of-Services	2.2 Detailed Scope of Service
X4.2.3 Significant Assumptions	2.3 Significant Assumptions
X4.2.4 Limitations and Exceptions	2.4 Limitations and Exceptions
X4.2.5 Special Terms and Conditions	2.5 Special Terms and Conditions
X4.2.6 User Reliance	2.6 User Reliance
X4.3 Site Description	4.0 The Site Description
X4.3.1 Location and Legal Description	4.1 Location and Legal Description
X4.3.2 Site and Vicinity General Characteristics	4.2 Physical Description
X4.3.3 Current Use of the Property	4.3 Facility Operations
X4.3.4 Descriptions of Structures, Roads, Other Improvements on the Site	4.2 Physical Description
X4.3.5 Current Uses of the Adjoining Properties	4.4 Current Uses of Adjoining Properties
X4.4 User Provided Information	3.0 User-Provided Records
X4.4.1 Title Records	3.1 Title Records
X4.4.2 Environmental Liens or Activity and Use Limitations	3.2 Environmental Liens or Activity and Use Limitations
X4.4.3 Specialized Knowledge	3.3 User Knowledge
X4.4.4 Commonly known or Reasonably Ascertainable Information	3.3 User Knowledge/3.5 Prior Site Investigations
X4.4.5 Valuation Reduction for Environmental Issues	3.4 Valuation Reduction for Environmental Issues
X4.4.6 Owner, Property Manager, and Occupant Information	4.3 Facility Operations
X4.4.7 Reason for Performing Phase I	3.6 Reason for Performing Phase I ESA
X4.4.8 Other	3.7 Other

ASTM Standard	Fishbeck
X4.5 Records Review	8.0 Records Review
X4.5.1 Standard Environmental Record Sources	8.1 Database Review/MDEQ File Review
X4.5.2 Additional Environmental Record Sources	8.2 Local Governmental Agency Review
X4.5.3 Physical Setting Source(s)	5.0 Environmental Setting
X4.5.4 Historical Use Information on the Property	6.0 Site History
X4.5.5 Historical Use Information on Adjoining Properties	7.0 Adjoining Properties History
X4.6 Site Reconnaissance	9.0 Site Reconnaissance
X4.6.1 Methodology and Limiting Conditions	9.0 Site Reconnaissance
X4.6.2 General Site Setting	9.1.1 General Site Setting
X4.6.3 Exterior Observations	9.1 Facility Observations
X4.6.4 Interior Observations	9.1 Facility Observations
X4.7 Interviews	10.0 Interviews
X4.7.1 Interview with Owner	10.1 Interview with Owner
X4.7.2 Interview with Site Manager	10.2 Interview with Site/Property Manager
X4.7.3 Interview with Occupants	10.3 Interview with Occupants
X4.7.4 Interviews with Local Government Officials	10.4 Interviews with Others/8.2 Local Governmental Agency Review
X4.7.4 Interviews with Others	10.4 Interviews with Others
X4.8 Findings	11.0 Findings and Opinions
X4.9 Opinion	11.0 Findings and Opinions
X4.10 Conclusions	13.0 Conclusions
X4.11 Deviations	14.0 Deviations
X4.12 Additional Services	15.0 Additional Services
X4.13 References	16.0 References
X4.14 Signatures of Environmental Professionals	17.0 Signatures of Environmental Professionals
X4.15 Qualifications of Environmental Professionals	Appendices
X4.16 Appendices	Appendices

Appendix 12



YEARS OF EXPERIENCE

21 years — Fishbeck

27 years — total

EDUCATION

BS in Geophysics, Western
Michigan University

REGISTRATIONS/ CERTIFICATIONS

Certified Professional Geologist –
American Institute of Professional
Geologists

Certified UST Professional

HAZWOPER Site Worker

HAZWOPER Supervisor

MEMBERSHIPS

American Institute of Professional
Geologists

National Groundwater
Association

Portage Economic Development
Corporation/Tax Increment
Finance Authority and Brownfield
Redevelopment Authority

TRAINING

The Groundwater Sampling Field
Course, Nielsen Environmental
Field School, Inc.

Chemical Cleaning Disinfection
and Redevelopment of Water
Wells, Johnson Screens

TODD CAMPBELL, CPG

SENIOR GEOLOGIST

Todd's environmental consulting and management experience includes ESAs, aquifer pumping tests, slug tests, surveying, UST closures, geoprobe drilling, lagoon surface sampling, sludge sampling, private and municipal water supply development, and remedial system installation and start-up for air sparging, SVE, dual-phase extraction, and pump and treatment systems.

His responsibilities include providing technical support interpreting data and report writing for Phase I and II ESAs, BEAs, due care plans, UST closures, quarterly groundwater monitoring reports, RAPs, hydrogeological reports, no further action reports, and proposal writing.

Todd has been involved with numerous UST closures throughout the Midwest. He has taken several sites from UST closure through initial site characterization phases and has successfully implemented CAPs. As project geologist/manager for many of these projects, he was responsible for schedule, budget control, communication, sampling, and reporting.

EXPERIENCE

STORMWATER

CITY OF PORTAGE, MICHIGAN

STORMWATER TREATMENT ENHANCEMENT PROJECT (STEP)

Provided quarterly monitoring of the Westnedge area including collection of stormwater at several locations upstream of the treatment ponds, throughout the treatment ponds, and downstream of the treatment ponds for filed parameters to determine STEP effectiveness.

GENERAL WATER SUPPLY

CITY OF ALMA, MICHIGAN

Project geologist responsibilities included oversight of pilot boring, installation of Type I production well, surveying, step testing, transducer set up for pump testing, client communication, and reporting.

GREAT SPRING WATERS OF AMERICA | STANWOOD, MICHIGAN

Sampled four production wells located in the sanctuary for bacteria prior to production startup.

CITY OF CEDAR SPRINGS, MICHIGAN

- Project geologist responsibilities included oversight of soil borings, observation well installation, step testing, installation of Type I production well, development, and reporting.
- Project geologist responsibilities included oversight of installation of a private residential drinking water well. The well was double-cased to prevent contaminants from a shallow aquifer to migrate into a deeper, confined aquifer where the well screen was set.

CONFIDENTIAL CLIENT | HASTINGS, MICHIGAN

Installed a test well and completed a short-term aquifer test to be used to design a Type II well and fire suppression well.



TODD CAMPBELL, CPG

SENIOR GEOLOGIST

TRAINING

Michigan Qualified UST
Consultants and Certified
Professionals Seminar

Risk-Based Corrective Action
Applied at Petroleum Release
Sites, ASTM

CONFIDENTIAL CLIENT | SOUTH LYON, MICHIGAN

Installed two test wells and completed short-term aquifer tests to be used to design a Type II well and fire suppression well.

VILLAGE OF BALDWIN, MICHIGAN

Project geologist responsibilities included oversight of soil borings; installation of observation wells; short-term pump test; pilot boring for Type I production well, surveying, and sampling; and communication with the district health department, MDEQ, and the client.

PALL LIFE SCIENCES | ANN ARBOR, MICHIGAN SCHUMASOIL SCREEN STUDY

Project geologist duties included setup and completion of a study to determine marketability of the Pall Schumasoil screens in the environmental groundwater sampling market. The study included installation of four monitoring wells, aquifer testing, groundwater monitoring, and aquifer analysis.

ENVIRONMENTAL DUE DILIGENCE (PHASE I AND II ESAS, BEAS, DUE CARE PLANS)

- Aggregate Industries, Battle Creek, Michigan
- Western Michigan University, Kalamazoo, Michigan
- Western Michigan University, Battle Creek, Michigan
- Bradford White, Niles, Michigan
- FEMA Corporation, Otsego, Michigan
- Chemical Bank
 - Kalamazoo, Michigan
 - Coloma, Michigan
 - Marion, Michigan
- Confidential Client, Portage, Michigan

CONSUMER'S CONCRETE | NEWAYGO, MICHIGAN

Project geologist responsibilities included oversight of Geoprobe sampling activities, soil and groundwater sampling, surveying, and reporting.

AGGREGATE INDUSTRIES | PAW PAW, LAWRENCE, CASSOPOLIS, AND EDWARDSBURG, MICHIGAN

Project geologist responsibilities included oversight of excavation and Geoprobe sampling activities, soil and groundwater sampling, surveying, and subsequent Phase II reporting.

ETHANOL PLANT | SOUTH BEND, INDIANA

Activities included completion of soils borings, communication with client, and split sampling with the Indiana Department of Environmental Management.

FORMER PERFORMANCE PAPER | KALAMAZOO, MICHIGAN

Field work consisted of an ash and fill delineation and characterization.

PLATING FACILITY | NILES, MICHIGAN

Activities included completion of soil borings/monitoring wells, soil and groundwater sampling, surveying, and reporting.

RESISTOR MANUFACTURING FACILITY | DECATUR, INDIANA

Activities included completion of soil borings/monitoring wells, sampling, slug testing and analysis, surveying, potentiometric maps, and technical writing support.

MANUFACTURING FACILITY | FAIRMOUNT, WEST VIRGINIA

Activities included research of local geology and hydrogeology; determination of soil boring and monitoring well locations and completion depths; geologic characterization; mapping; surveying;

TODD CAMPBELL, CPG

SENIOR GEOLOGIST

potentiometric map; and subsequent Phase II ESA report. The results of the Phase II ESA allowed successful property transfer.

MANUFACTURING FACILITY | TARBORO, NORTH CAROLINA

Project management/geologist activities included research of local geology and hydrogeology; determination of soil boring and monitoring well locations and completion depths; geologic characterization; soil and groundwater sample collection; mapping; surveying; potentiometric map, and subsequent Phase II ESA report. The results of the Phase II ESA allowed successful property transfer.

G AVENUE | RICHLAND, MICHIGAN

Evaluation of shallow soils; set up a random sampling grid and collected 20 soil samples.

GROUNDWATER MONITORING

- Kalamazoo Oil, Kalamazoo, Michigan
- Bradford White Corporation, Middleville, Michigan
- Borroughs Corporation, Kalamazoo, Michigan
- Pall Life Sciences, Ann Arbor, Michigan
- Former Pall Aeropower, Pinellas Park, Florida

REMEDIATION

AEROSOL MANUFACTURING FACILITIES | ELKHART, INDIANA

Project geologist activities included soil and groundwater sampling, well installation, surveying, reporting, and installation of remedial systems (air sparging and SVE).

PALL LIFE SCIENCES | ANN ARBOR, MICHIGAN

Project geologist responsibilities included delineation oversight of 1,4-Dioxane impact to the groundwater for several aquifers, geologic characterizations, surveying, and oversight of geophysical methods (natural gamma log, resistivity). Duties also included preparing isoconcentration maps, potentiometric contour maps, and providing support for quarterly reports submittal, and several work plans to the MDEQ. Additional activities included supervision of drillers, coordination of field drilling activities, well rehabilitation, and the setup, completion, and analysis of aquifer pumping tests.

FORMER PALL AEROPOWER | PINELLAS PARK, FLORIDA

Project geologist responsible for oversight of drilling 210 injection wells, 30 monitoring wells (including 15 double-cased) and 19 SVE wells. Duties also included geologic characterizations and groundwater monitoring, supervision of drillers, and coordination of field drilling activities.

FORMER TELEDYNE SEMICONDUCTOR/ SPECTRA PHYSICS SITE | MOUNTAIN VIEW, CALIFORNIA

Activities consisted of the injection of EOS into injection wells.

SANDY SUPPLY SITE | WOOSTER, OHIO

Delineated and characterized the source area of a site impacted by a release of trichloroethene.

DRAKE ROAD AND WEST MICHIGAN AVENUE SITE | KALAMAZOO, MICHIGAN

Preparation and submittal of a no further action report related to soil and groundwater impacts by a historic release of chlorinated solvents.

UST

TRUCKING TERMINALS | MILWAUKEE, WISCONSIN

Proposal development, oversight of UST closure activities, excavation of impacted soils, confirmatory sampling, site investigation, reporting, and subsequent closure of two facilities.

TODD CAMPBELL, CPG

SENIOR GEOLOGIST

FORMER GAS STATION | PLYMOUTH, INDIANA

Soil and groundwater investigation including installation of monitoring well network, and quarterly groundwater sampling, and reporting.

HISTORIC GAS STATION | BATTLE CREEK, MICHIGAN

Project management and proposal development for UST closure activities.

HURON-CLINTON METROPOLITAN AUTHORITY | MILFORD, MICHIGAN KENSINGTON METROPARK

Project management, proposal development, oversight of UST closure activities, administered initial assessment report preparation, and submittal and preparation of final assessment report.

METRO BEACH METROPARK | HARRISON TOWNSHIP, MICHIGAN

Project management, proposal development, oversight of UST closure activities, and administered the preparation and submittal of the initial assessment and closure reports.

TRUCKING FACILITY | PLYMOUTH, INDIANA

Oversight of UST closure activities, excavation of impacted soils, confirmatory sampling, initial site characterization (soil and groundwater investigation), CAP, and CAP implementation. Responsibilities also included quarterly sampling and reporting.

TRUCKING TERMINAL | INDIANAPOLIS, INDIANA

Oversight of UST closure activities, excavation of diesel-impacted soils, and confirmatory sampling.

TRUCKING TERMINAL | TOLEDO, OHIO

Oversight of UST closure activities, excavation of diesel-impacted soils, and confirmatory sampling.

TRUCKING FACILITY | ST. LOUIS, MISSOURI

Oversight of UST closure activities, excavation of diesel-impacted soils, sampling, and regulator communication.

PETROLEUM COMPANY | INDIANA

Oversight of UST closure activities, excavation of impacted soils, application of oxygen release compound, confirmatory sampling, initial site characterization (soil and groundwater investigation), CAP, and CAP implementation for several former gas stations throughout northern and central Indiana. Responsibilities also included quarterly sampling of several sites, completion of bioremediation sampling, assisting with the installation of remedial systems, set up and completion of pilot studies (air sparging and SVE), and reporting.

FORMER CHARLES SERVICES | KALAMAZOO, MICHIGAN

Oversight of UST closure activities, installation of monitoring well network, vertical groundwater profiling with hollow-stem auger drilling rig and Geoprobe, surveying, installation of extraction well, quarterly groundwater sampling, surveying, and completion of RAP.

PETROLEUM REFINERY | LEMONT, ILLINOIS

Quarterly groundwater sampling of large monitoring well network throughout the refinery. Sampling included collection of samples from over 20 wells.

MEL'S MARKET | BERRIEN SPRINGS, MICHIGAN

Oversight of UST closure activities, excavation of impacted soils, and verification of soil remediation sampling.

RALPH MOYLE, INC. | MATTAWAN, MICHIGAN

Oversight of UST closure activities and soil sampling.

FORMER SPEAREFLEX FACILITY | KALAMAZOO, MICHIGAN

**TODD CAMPBELL,
CPG**

SENIOR GEOLOGIST

Oversight of excavation and VSR sampling.

SOFT DRINK COMPANY | ROLLING MEADOWS, ILLINOIS

Project management/geologist responsibilities included proposal development, budget control, oversight of UST closure activities, excavation of diesel-impacted soils, confirmatory sampling, and reporting.

MAINTENANCE GARAGE | ANGOLA, INDIANA

Project manager/geologist for a LUST site. A petroleum hydrocarbon plume was identified near a municipal well. Duties included reporting, budget control, schedule, reporting, quarterly sampling, oversight of dual-phase product recovery system, slug testing, and completion of an aquifer pumping test. Reporting responsibilities included initial abatement/site characterization, CAP, and quarterly CAP progress.

WELCH'S | LAWTON, MICHIGAN

Duties included oversight of UST closure activities, excavation of impacted soil, removal of impacted groundwater, confirmatory sampling, geologic characterizations, groundwater monitoring, and closure reporting.



YEARS OF EXPERIENCE

20 years — Fishbeck

22 years — total

EDUCATION

BS in Business Administration,
Central Michigan University

BS in Biology, Grand Valley State
University

REGISTRATIONS/ CERTIFICATIONS

Certified Hazardous Materials
Manager

HAZWOPER Site Worker

MDEQ Stormwater Management
Operator - Industrial Site A-1

Visible Emissions Evaluator

Michigan Class A UST System
Operator

Michigan Class B UST System
Operator

USDOT HAZMAT

MEMBERSHIPS

Air and Waste Management
Association/West Michigan
Chapter

West Michigan Associates of
Clean Water Professionals

THOMAS BUDGE, CHMM

SENIOR ENVIRONMENTAL SPECIALIST

Tom has been involved with numerous field- and office-related activities in the environmental consulting industry. His field experience includes groundwater sampling using low-flow and traditional approaches; collection and analysis of various field data; and soil sampling. Tom has conducted numerous Phase I and II ESAs, BEAs, and due care plans. He also has experience in field analytical testing, groundwater sampling and collection, soil investigations, UST sampling, and operations of groundwater soil remediation systems.

Tom has completed PIPPs, SPCCs, HWCPs, and SWP3 for industrial clients. He has experience with toxic chemical release inventory reporting (Form R), Tier II reporting, and annual wastewater reporting. Tom has field experience in groundwater sampling from monitoring wells, well abandonment, soil sampling and classification, air monitoring and sample collection, wetland delineation, and 24-hour composite wastewater sampling.

He has experience in sampling for analytical parameters including metals, VOCs, and inorganics. Tom has experience in the use and calibration of field equipment/ meters including pH, dissolved oxygen, specific conductance, and Eh. He also has experience in collecting samples from monitoring wells, extraction wells, and leachate. His sampling techniques include small-diameter sampling pumps, field filtering techniques, and low-flow sampling.

EXPERIENCE

ENVIRONMENTAL DUE DILIGENCE (PHASE I AND II ESAS, BEAS, DUE CARE PLANS)

- City of Ionia, Michigan
- Amway, Ada, Michigan
- Continental Dairy Facilities, Coopersville, Michigan
- Michigan Wire Processing Company, Lowell, Michigan
- Western Michigan University, Kalamazoo, Michigan
- Chemical Bank, Midland, Michigan
- West Michigan Trucks, Grand Rapids, Michigan
- SET Environmental, Grand Rapids, Michigan
- Varum, Grand Rapids, Michigan
- Bradford White, Middleville, Michigan
- Spectrum Health, Grand Rapids, Michigan

ENVIRONMENTAL COMPLIANCE

Tom has been involved in preparing PIPPs, SWP3 s, SPCCs. environmental compliance audits, toxic chemical release inventory reporting, Tier II reporting, hazardous waste reporting and/or inspections for the following clients.

- Bissell, Grand Rapids, Michigan
- Clarion Technologies, Greenville, Michigan
- Light Metals, Grand Rapids, Michigan
- Master Finish, Grand Rapids, Michigan
- Pratt & Whitney, Lansing, Michigan



THOMAS BUDGE, CHMM

**SENIOR ENVIRONMENTAL
SPECIALIST**

- Kellogg Company, Battle Creek, Michigan
- Alticor Aviation, Gerald R. Ford International Airport, Grand Rapids, Michigan
- GE Aviation, Grand Rapids, Michigan

REMEDIATION

IONIA LANDFILL | IONIA, MICHIGAN

Groundwater extraction and treatment system O&M.

OTT/STORY SUPERFUND SITE | MUSKEGON, MICHIGAN

Groundwater pump and treatment system O&M.

FORMER TELEDYNE SEMICONDUCTOR/ SPECTRA-PHYSICS SITE | MOUNTAIN VIEW, CALIFORNIA

Activities consisted of the injection of EOS into injection wells.

PALL CORPORATION | TAMPA, FLORIDA PINELLAS PARK

Activities consisted of the injection of EOS into injection wells.

ENVIRONMENTAL CHEMICAL CORPORATION | BELDING AND BENTON HARBOR, MICHIGAN SUPERFUND SITES

Collected random samples of solid waste material and segregated contaminated waste into their respective waste streams. Learned proper calibration and usage techniques for ionizing radiation detection instruments, assisted health physics technicians in the completion of unrestricted free release surveys, and operated and maintained an SSI 200-hp hydraulic rotary shredder.

TRAINING

- 32-hour Health Physics for Waste Management: Radiological Sampling, Analysis, and Characterization of Radioactive Waste
- Nielsen Environmental Field School, Groundwater Sampling Field Course
- Phase I ESA ASTM Standard E 1527-00 Training Seminar
- 7th Annual Hazardous Waste Workshop
- Michigan Air Emissions Reporting, Introduction to MAERS