



REQUEST FOR PROPOSAL

MICHIGAN LAND BANK FAST TRACK AUTHORITY

**DEMOLITION AND ABATEMENT CONTRACTOR FOR
THE FORMER GLENDALE SCHOOL AT
3001 JEFFERSON STREET, MUSKEGON HEIGHTS, MICHIGAN**

RFP-CASE-19-0010

Important Dates:

Event	Date Due	Time Due	Method of Communication
RFP Release	12/7/18	n/a	SIGMA
Pre-Bid Meeting	12/12/18	1:00 PM	At site
Questions on RFP	12/14/18	5:00 PM	landbank@michigan.gov
Answers to Questions	12/17/18	5:00 PM	SIGMA & email to individuals asking questions
RFP Response Due	12/19/18	5:00 PM	landbank@michigan.gov
Estimated Contract Start	1/15/19		

REMINDER

Please check your submission to make sure you have included all of the information which is required in the Request for Proposal. In addition, please submit files as noted on the RFP cover page which include the following:

- Technical Submission (Section II-A) with Cover Sheet (Attachment A) and Signed Independent Price Determination Certificate (Attachment B);
- Price Proposal (Section II-B);

Submit separately marked electronic files of your Technical Submission and Price Proposal as noted on the RFP cover page. The Michigan Land Bank (the “MLB”) has no obligation to consider any Submission that is not timely received. **Submissions will only be accepted as noted on the RFP cover page.**

RESPONDENTS ARE RESPONSIBLE FOR ASSURING THAT THE FOLLOWING IDENTIFYING INFORMATION APPEARS IN THE FILE NAME OF YOUR SUBMISSION: “RFP-CASE-19-0010 Price Proposal” and “RFP-CASE-19-0010 Technical Submission.”

The MLB will not respond to telephone inquiries, or visitation by Respondents, or their representatives. Respondent’s sole point of contact concerning the RFP is below and any communication outside of this process may result in disqualification.

Michigan Land Bank Fast Track Authority
300 North Washington Square, 4th Floor
Lansing, Michigan 48913
landbank@michigan.gov

ENVIRONMENTAL CONSULTANT FOR THIS PROJECT:

AKT Peerless Environmental Services
214 Janes Ave, Saginaw MI 48607
Sean Robinson – (989) 754-9896 – robinsons@aktpeerless.com
Shellene Thurston – (989) 890-1831 – petrowskis@aktpeerless.com

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REQUEST FOR PROPOSAL
DEMOLITION AND ABATEMENT CONTRACTOR FOR
THE FORMER GLENDALE SCHOOL AT
3001 JEFFERSON STREET, MUSKEGON HEIGHTS, MICHIGAN
RFP-CASE-19-0010

This Request for Proposal (the “RFP”) is issued by the Michigan Land Bank Fast Track Authority (the “MLB”). The MLB is the sole point of contact with regard to all bidding and contractual matters relating to the services described in this RFP. The MLB is the only office authorized to change, modify, amend, alter, clarify, etc. the specifications, terms and conditions of this RFP and any contract(s) awarded as a result of this RFP (the “Contract”). The MLB will remain the SOLE POINT OF CONTACT throughout the bidding process. ***The MLB will not respond to telephone inquiries, or visitation by Respondents or their representatives. Respondent’s sole point of contact concerning the RFP is below and any communication outside of this process may result in disqualification.***

Michigan Land Bank Fast Track Authority
300 North Washington Square
Lansing, Michigan 48913
landbank@michigan.gov

SECTION I STATEMENT OF WORK

A) PURPOSE AND BACKGROUND STATEMENT

The MLB is the owner of the property located at 3001 Jefferson Street, Muskegon Heights, Michigan ("the Premises"). This property was previously an elementary school and has a school structure and two temporary classroom structures which are to be demolished.

Legal Descriptions:

- 61-26-770-011-0001-00: Muskegon, Lots One (1) through Forty (40), Block Eleven (11) of Charles M. Steele a Subdivision, City of Muskegon Heights, Muskegon County, Michigan, as recorded in Liber 3 of Plats, Page 28

B) SCOPE OF WORK

This RFP is open to all qualified demolition contractors who are capable and qualified to meet the objectives and requirements described in this document. Qualified DBE/MDE/WBE organizations are encouraged to respond. Respondents must supply documentation supporting their qualifications for evaluation.

1. **Abatement and Demolition of Structure:** The Scope of Work ("Work") for this RFP may include, but is not necessarily limited to:
 - a. Security: Provide site security for duration of project after notice to proceed is received.
 - b. Mobilization: Includes all labor, equipment, materials, and incidentals to mobilize to the project site to perform the work. It includes all supervision of successful Respondent personnel, and office support. It includes project meetings, surveying, site security, temporary controls and utilities, pre-work submittals, preparation of all submittals including, the successful Respondent's Site Specific Work Plan and Health and Safety Plan (HASP), personal protective equipment, permits, disposal approvals, erosion controls, barricades, traffic control, trash disposal, cleaning, and demobilization. Total cost of this item shall not exceed four (4%) percent of the successful Respondent's overall base bid.
 - c. Utilities: The MLB has requested disconnection of gas and electric service from this site. Letters will be forward to the successful Respondent indicating the disconnection of those same utilities. It will be the successful Respondent's responsibility to have any other utilities cut and removed from the site as required by regulation, local ordinance or, at a minimum, generally accepted methods. The successful Respondent is responsible for contacting Miss Dig prior to any demolition activity.
 - i. Contractor is responsible to cut and cap utilities other than gas and electric and pay all associated fees. This may include well capping and proper closure of any on-site sewer systems or drainage systems as detailed in Phase I/II reports, or as found by successful Respondent.
 - d. Asbestos Containing Materials: Includes all labor, equipment, materials, incidentals, transportation, and disposal fees for the pre-demolition abatement of asbestos containing materials. Successful Respondent to submit Notification of Intent to Renovate/Demolish to DEQ and the MIOSHA Asbestos Program at the Michigan Department of Licensing and Regulatory Affairs ("LARA"), provide the MLB with copy of notification and any subsequent revisions to notification.

- e. Universal Waste: Include all labor, equipment, materials, and incidentals, transportation and disposal fees needed to manage Universal Waste and its disposal prior to demolition. Universal waste include, but are not limited to, bulbs; ballasts; batteries; mercury containing/equipment; and electronic equipment.
 - i. The Pre-demolition survey report from AKT Peerless, Appendix C identified all materials found on site. All must be addressed as part of abatement.
- f. Clearances: Coordinate visual and/or air clearance examinations through the MLB's environmental consultant. Any costs for failed examinations shall be deducted from the final payment to the successful Respondent's final invoice.
- g. Demolition: Includes all labor, equipment, materials, fees, permits and incidentals needed: to demolish building, flatwork, and below grade structures associated with the building (including basement, foundations, footings, sumps, pits, vaults etc.); transportation and disposal of all demolition debris; removal of all concrete and asphalt drives and parking areas on site; and utility disconnects, removal, abandonment, or protection of buried underground utilities as specified. Use of explosives is strictly prohibited. Do not burn demolished materials. Except for items or materials indicated to be reused, salvaged, or otherwise indicated to remain property of MLB, demolished materials shall become the successful Respondent's property and shall be removed, recycled, or disposed from Project site in an appropriate and legal manner. Successful Respondent will be required to provide water, application equipment and personnel for dust suppression during demolition activities.
- h. Site Restoration: Site restoration shall include general backfilling, leveling and compaction. *In this case NO INSTALLTION of grass seed and straw will be requested as this site is slated for immediate redevelopment.* Procedures, methods, materials, and other information regarding excavation and backfill shall be included in the Project Work Plan developed by the successful Respondent. The following information regarding excavation and backfilling shall be included in the Project Work Plan, at a minimum: (1.) Project Schedule; (2.) List of Subcontractors; (3.) Description of the methods and equipment to be used for each related operation (i.e., excavation, transportation, sampling, etc.); (4.) Transportation company; (5.) Method to protect any storm sewers and conveyances during soil excavation in close proximity of the site; and (6.) Description of the means, methods, and procedures for site restoration.
 - i. Backfill material: The successful Respondent shall submit data on proposed backfill materials (sand and gravel) to the MLB for approval. This data shall include the source of backfill material; grain size analysis, including MDOT classification; and analytical results (including volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), polychlorinated biphenyls (PCBs), and Michigan metals) verifying that backfill material is uncontaminated. Testing shall be the responsibility of the successful Respondent and shall be performed at no additional cost to the MLB.
 - A. Satisfactory materials shall be MDOT Class II sand or MDOT Class III granular fill and shall be free of trash, debris, roots, and other organic matter. Native fill can be reused in the excavation from which it came, if determined by MLB or its designee to be suitable. Any sampling, sample delivery, and laboratory analysis deemed necessary for reuse of native fill shall be the responsibility of the successful Respondent and is incidental to the project.
 - B. Unsuitable materials

- I. Contaminated soil includes, but is not limited to, soils that are visually or olfactory impacted. Any VOCs, SVOCs, PCBs, or other contaminants are detected in backfill material from an offsite location and/or if the MLB or its designee detects any contamination through visual or olfactory senses, then this will constitute classification as "contaminated soil."
 - II. Unsuitable materials include the following materials: (1.) Soils that, when classified under ASTM D 2487 - Classification of Soils for Engineering Purposes, fall in the classification of Pt, OH, CH, MH, or OL; (2.) Soils that cannot be compacted sufficiently to achieve the density specified for the intended use; (3.) Soil with more than 10% organics; (4.) Soils that contain greater concentrations of chloride or sulfate ions or have a soil resistivity or pH less than the existing onsite soils; (5.) Topsoil; (6.) Slag; (7.) Crushed concrete; (8.) Rock; (9.) Fill with brick, block or concrete; and/or (10.) Fill with rocks larger than 4" diameter.
- C. Analytical Reports: The successful Respondent shall submit to the MLB all analytical results of the backfill, waste characterization, and any other samples collected/required for the work.
- ii. Surface Grade: After demolition activities have been completed, all disturbed surfaces shall be graded, prior to surface restoration, so as to leave no ruts, pits, piles, or ridges. If is required, the successful Respondent shall be responsible for settlement of fill over any fill areas and shall be required to repair any voids or holes that appear for a period of one year after final acceptance of work by the MLB, at the successful Respondent's own expense.
 - iii. Finish Grade: Finish grade shall match the pre-work grade at undisturbed areas and the perimeter of the site. The finish grade shall be approximately 2-inches below the pre-work grade at the center of the property with a gentle upward slope towards the perimeter of the property where the finish grade matches the preexisting grade. Grading shall be conducted as directed by the MLB or its designee. All impacted area by site activities, including pavements, roads, vegetation, and all other disturbed or altered structures/features shall be restored to pre-work condition.
 - A. The finished grade shall be flush (+ or -3") with existing sidewalks which will remain immediately adjacent to the affected area is to be considered grade.
 - B. The successful Respondent shall place 4-inches of top soil throughout. The top soils shall be free of stones, stumps, lumps and similar objects larger than 2-inches in diameter, and shall be raked out.
 - C. The successful Respondent shall leave in place soil erosion fencing upon completion in order to control spring run off.
 - iv. Roadway and Parking Areas: The successful Respondent is required to repair, in-kind or better, any areas of the successful Respondent's access point, such as public roads, sidewalk or curbs, disturbed as a result of the successful Respondent's work or access.
 - i. Demobilization: Includes all labor, equipment, materials, and incidentals to complete balance of the Work under the bidding documents including but not

limited to: site demobilization including removing personnel, equipment, supplies, rubbish and incidentals from the project site.

C) DELIVERABLES:

The successful Respondent must submit the following documentation to the MLB following the noted milestones. Prior to processing of final payment, all documents must be delivered to the MLB.

1. **Prior to work beginning:** Project schedule; pre-work photos of site; project work plan; HASP; spill contingency plan; proposed disposal facilities and proposed disposal facility licenses
2. **Prior to Abatement:** Abatement notification(s)
3. **After Abatement:** Copies of site/project manager's verification of the quantity and description of removed materials; Copies of all asbestos and hazardous materials waste manifests; passed visual and/or air clearance examination (to be conducted by MLB's environmental consultant)
4. **Prior To Demolition:** NESHAP notification(s); permit applications and permits; dust control and air monitoring plan; soil erosion and sedimentation control plan; utility disconnects applications and verifications; and Abandoned Well Plugging Record.
5. **After Demolition:** Copies of all asbestos, hazardous materials and demolition waste manifests; copies of daily site activity reports; photos of finished site; and backfill analytical report.

D) QUALIFICATIONS

The Respondent shall demonstrate by submitting documentation with their response to this RFP that they meet the following qualification criteria:

1. Hold a valid State of Michigan Contractor or Maintenance Contractor license.
2. Meet the insurance requirements listed in Section II, A. 10. Insurance.
3. Provide a list of similar projects that demonstrates a minimum of three (3) years' experience with demolitions similar to this project.
4. Provide three (3) references, include organization, contact person, and their phone number.
5. Be qualified, licensed and/or certified to handle noted wastes, asbestos and work in contact with potentially contaminated soils.
6. Able to certify all criteria listed on the Cover Sheet, Attachment A.
7. The MLB Staff will review all public sites including, but not limited to, those listing debarred contractors for use of federal or state funds, licensing sites, OSHA violation sites and environmental violation sites, to verify qualifications applicable to this site and/or funding source.

E) PRE-BID MEETING

A pre-bid meeting will be held at the date and time noted on the cover page and will be on the site of the demolition. Respondents can visit the site and view the property at that time. Attendance at the pre-bid meeting is mandatory to respond to this RFP.

F) RESPONDENT RESPONSIBILITIES

It is the responsibility of each Respondent, before submitting a bid, to:

1. Examine the RFP and associated documents thoroughly;

2. Visit the site and, if necessary, record conditions at the site (through logs/notes, photographs, video or any other means);
3. Study and correlate the Respondent's observations with the RFP documents;
4. Submit written questions or inquiries about the RFP documents or the Work; and
5. Account for all general, local and prevailing conditions at or near the site that may in any manner affect the cost, schedule, progress, performance or furnishing of the work.

G) SITE INFORMATION

The MLB has conducted, and is providing in Attachment C, a Pre-Demolition Asbestos and Hazardous Material Survey on the subject property. The MLB has also commissioned both a Phase I and Phase II Study which are in Attachments D and E, respectively.

1. To the extent that any Respondent considers that additional information is necessary for determining its bid, it is the responsibility of that Respondent to request from the MLB the necessary additional information. In the event the MLB does not have the requested additional information, it shall be the responsibility of the Respondent, at the Respondent's sole cost, to undertake reasonable examinations of the site and any other pertinent available information and data that the Respondent considers necessary for determining its bid.
2. The Respondent awarded the contract shall be responsible for obtaining any lands, areas, properties, facilities, rights-of-way and easements, in addition to those furnished by the MLB, that the Respondent considers necessary for temporary facilities, storage, disposal of spoil or waste material or any other similar purpose. The MLB does not assume any responsibility for site conditions at any lands, areas, properties, facilities, rights-of-way and easements obtained by any Respondent.

H) PERFORMANCE CONDITIONS AND REQUIREMENTS

1. The Respondent awarded the contract shall comply with all applicable laws, including, but not limited to, laws affecting cost, schedule, progress, performance or furnishing of the Work. Examples of those laws include, but are not limited to, those relating to nondiscrimination in employment, protection of public and employee health and safety, environmental protection, building codes, fire protection, grading and drainage, use of explosives, vehicular traffic, restoration of lands and property under the control of the State or a political subdivision, taxes, permits and licensing. By way of example, but not exhaustive, all work must comply with the following regulatory requirements:
 - a. Federal Laws and Regulations
 - i. 40 CFR Parts 239 through 282 - Resource Conservation and Recovery Act (RCRA), as amended
 - ii. Public Law 91-596 - Occupational Safety and Health Act (OSHA) of 1970, as amended
 - iii. 29 CFR Part 1910.120 - Hazardous Waste Operations and Emergency Response (HAZWOPER), as amended
 - iv. 29 CFR Part 1926 - Safety and Health Regulations for Construction, as amended
 - v. 40 CFR Part 260 - Construction Hazardous Waste Management Systems
 - vi. 40 CFR Part 261 - General Identification and Listing of Hazardous Wastes
 - vii. 40 CFR Part 262 - Standards Applicable to Generators of Hazardous Wastes
 - viii. 40 CFR Part 263 - Standards Applicable to Transporters of Hazardous Wastes
 - ix. 40 CFR Part 264 - Standards for Hazardous Wastes TSDf MLBs and Operators

- x. 40 CFR Part 265 - Interim Standards for Hazardous Wastes TSDf MLBs and Operators
 - xi. 40 CFR Part 270 - Hazardous Waste Permits
 - xii. 49 CFR Part 172 - Hazardous Materials Table, Special Provisions, Hazardous Materials Communications, Emergency Response Information, Training Requirements, and Security Plans
 - xiii. 49 CFR Part 173 - General Requirements for Shipments and Packaging
 - xiv. 49 CFR Part 174-77 - Transporter Requirements
 - xv. 49 CFR Part 178-79 - Container Specifications
- b. State of Michigan Laws
- i. Michigan Public Act 451, Part 201 - Environmental Remediation, as amended
 - ii. Michigan Public Act 451, Part 115 - Solid Waste Management as amended
 - iii. Michigan Public Act 451, Part 111 - Hazardous Waste Management, as amended
 - iv. Michigan Public Act 451, Part 121 - Liquid Industrial By-Products
 - v. Michigan Public Act 154 - Michigan Occupational Safety and Health Act (MIOSHA)
 - vi. Michigan Public Act 451 Part 91 – Soil Erosion and Sedimentation Control, as amended
 - vii. Michigan Public Act 174, Miss Dig Underground Facility Damage Prevention and Safety Act
- c. Local Laws: City of Muskegon Heights and/or County of Muskegon.
2. **Permits:** The demolition permit shall be obtained through the local jurisdiction. A copy is to be provided to the MLB.
 3. **Meetings:** Pre-Demolition Conference: The MLB may schedule a pre-demolition conference to be attended by the MLB, environmental consultant, and the successful Respondent and its subcontractors, as applicable. When no organizational meeting is called, the successful Respondent, before beginning any work, must meet with the staff of the MLB and arrange a work schedule for the project. Once the project has been started, the successful Respondent must carry it to completion without delay. Progress Meetings: The MLB may schedule progress meetings, in person or by phone conference, to be held whenever needed to supply information necessary to prevent job interruptions, to observe the work or to inspect completed work. The successful Respondent must be represented at each progress meeting by persons with full authority to act for the successful Respondent in regard to all portions of the Work.
 4. **Soil Erosion:** With respect to any earth disturbance associated with this contract, the successful Respondent shall comply with the Natural Resources and Environmental Protection Act; Soil Erosion and Sedimentation Control, 1994 PA 451 Part 91, as amended.
 - a. The successful Respondent shall be responsible for all application fees and obtaining a soil erosion and sedimentation control (SESC) permit.
 - b. The successful Respondent shall furnish, install, and maintain as long as necessary and remove when no longer required, all necessary engineering controls to prevent erosion and sedimentation of onsite soils in accordance with Part 91 of P.A. 451 and the SESC permit. The successful Respondent is expected to leave any soil erosion fencing in place upon completion.
 5. **Hazardous Material:** The successful Respondent shall use, handle, store, dispose of, process, transport and transfer any material considered a hazardous material in

accordance with all federal, State and local laws. If the successful Respondent encounters material reasonably believed to be a hazardous material and which may present a substantial danger, the successful Respondent shall immediately stop all affected work, give written notice to the MLB of the conditions encountered, and take appropriate health and safety precautions.

6. **Subcontractors:** Each Respondent shall include a list of subcontractors, if any are utilized, with their submission. The Respondent shall provide licensing data for trades for which licensing is required and, if applicable, indicate minority, woman or handicapped status. If the MLB objects, for good cause, to any listed subcontractor, the MLB, before issuing an award, may request replacement of that subcontractor at no increase in contract price and/or contract time. In that event, the Respondent shall provide a substitute subcontractor or the Respondent itself, if qualified for the work involved. If the Respondent declines, that Respondent shall not be considered.
 - a. All subcontractors are subject to the same qualification process as the Respondent.
 - b. Any replacement or addition to listed subcontractor(s) shall be required to meet the requirements of the RFP documents. If the MLB objects for good cause to any such newly listed subcontractor, the successful Respondent shall provide a replacement subcontractor at no increase in contract price and/or contract time.
7. **Use of Premises:** The successful Respondent shall confine its operations (including, but not limited to, construction equipment and laydown and storage) to the site and lands, areas, properties, facilities, rights-of-way and easements identified and permitted by the contract documents and shall not unreasonably encumber the Premises. The successful Respondent shall be responsible for any damage to the Premises (including, but not limited to, damage to any real and personal property) and for any damage to any adjacent lands, areas, properties, facilities, rights-of-way and easements (including, but not limited to, damage to any real and personal property) resulting from the successful Respondent's operations. The successful Respondent shall defend, indemnify and hold harmless the MLB and its environmental consultant against all claims, as construed in adjacent lands, areas, properties, facilities, rights-of-way and easements (inclusive of real and personal property), including loss of use, to the extent resulting from the successful Respondent's operations.
 - a. The successful Respondent shall keep the Premises free from accumulations of waste materials, rubbish and other debris, and shall not remove, injure, cut, alter or destroy trees, shrubs, plants or grass, unless otherwise provided elsewhere in the contract documents. At the completion of the work, the successful Respondent shall remove all obstructions, waste and surplus materials, rubbish, debris, tools and construction equipment and shall leave the site clean.
 - b. The successful Respondent shall restore to pre-existing conditions all walks, roadways, paved areas and other real and personal property not designated for alteration by the contract documents. To the extent the successful Respondent refuses, fails or neglects to replace all such altered premises and/or restore to its pre-existing condition any walk, roadway, paved or landscaped area and other property not designated for alteration by the contract documents, the successful Respondent shall bear its proportionate share of the delay and costs resulting from the successful Respondent's refusal, failure or neglect to do so.
 - c. The successful Respondent shall not subject any part of the work or adjacent property to stresses or pressures that will damage or endanger the work or adjacent property, or both.
 - d. Storage or sale of removed items or materials on-site will not be permitted without advance written approval from the MLB.

- e. The successful Respondent is responsible for any and all actions necessary to remedy situations involving material spilled or leaked in transit, or mud or dirt tracked off the site. This includes trucks carrying imported fill or other materials to the site (i.e. dust generated from trucks entering the site on adjacent roads). Perform cleanup in accordance with all applicable federal, State, and local regulations at no additional cost to MLB.
 - f. Reuse of Soil and/or Aggregates: Excavate, handle and/or stockpile any reused soil separately from all other materials. Provide each staging area with adequate thickness of polyethylene sheeting to completely cover all materials. Covers shall be large enough to cover the entire staging area when materials are stored. Arrange material stockpiles such that they can be covered and secured each day with polyethylene sheeting. In the event the stockpiles are arranged or sized such that they cannot be adequately covered, the successful Respondent shall reconfigure them at its sole expense. Cover all reuse soil stockpiles left untouched for 8 hours with a secured polyethylene tarp.
8. **Reports:** The successful Respondent shall maintain and make available to the MLB and environmental consultant daily field reports recording the onsite labor force and equipment (successful Respondent and subcontractors); materials/equipment received (at the site or at another location); visits by suppliers; significant in-progress and completed trade work within major areas; and other pertinent information. Such daily field reports shall be furnished by the successful Respondent promptly to the MLB and/or its environmental consultant upon their request, and shall be accepted for information only. Neither the MLB nor its environmental consultant's review of any daily field report shall be construed as agreement with the information contained in any such daily field report.
9. **Emergencies:** In emergencies affecting the safety or protection of persons, the work or property at or adjacent to the site, the successful Respondent, without any special instruction or authorization from the MLB, is obligated to act to prevent threatened damage, death, injury or loss. The successful Respondent shall give the MLB prompt written notice of any emergencies and any changes in the work resulting from the action taken. If the MLB concurs, the MLB will amend the contract documents to provide for those changes and, unless the emergency resulted in whole or in part from any act or omission within the control of the successful Respondent, will make any corresponding adjustment in contract price and/or contract time.
10. **Schedule:** A schedule of activities must be provided by the successful Respondent after award of contract and prior to beginning activities on the site.
11. **Debris Disposal:** Off-site disposal of materials must be in State licensed locations or landfills. Follow all applicable requirements and regulations.
12. **Inspections:** Following abatement activities, the successful Respondent shall contact the MLB's environmental consultant for a visual and/or air clearance examination. Any costs associated with clearance failures shall be deducted from successful Respondent's invoice(s). The MLB's environmental consultant shall be on site for the demolition of the structure and will provide written summary of demolition activities. It is the successful Respondent's responsibility to coordinate demolition with the consultant's availability.
13. **Signage and Safety:** The successful Respondent must post appropriate signs to advise the project personnel and visitors of the limits of construction work areas, hardhat areas, excavations, asbestos abatement, construction parking and staging areas, etc. Advertising signage by successful Respondents, subcontractors, or suppliers is not allowed. The successful Respondent must maintain safe and adequate pedestrian and vehicular access to fire hydrants, commercial and industrial

establishments, churches, schools, parking lots, hospitals, fire and police stations and like establishments. The successful Respondent must obtain written approval from the MLB ten (10) calendar days before connecting to existing facilities or interrupting the services on site.

- a. The successful Respondent must furnish, install and maintain as long as necessary and remove when no longer required adequate barriers, warning signs or lights at all dangerous points throughout the work for protection of property, workers and the public.
 - b. Street Barricades: The successful Respondent must erect and maintain all street barricades, signal lights and lane change markers during the periods that a traffic lane is closed for their operations. There must be full compliance with rules and ordinances respecting such street barricading and devices must be removed when hazard is no longer present
14. **Temporary Fencing:** The successful Respondent must entirely enclose the demolition activity area by means of woven wire or snow fence having minimum height of four feet if an open hole is left overnight. Gates must be provided at all points of access, as applicable. Gates must be closed and secured in place at all times when work is not in progress. The fence must be removed and grounds restored to original condition upon completion of the work.
15. **Changes in Scope of Work:** The MLB is entitled to make changes within the general scope of work outlined in the RFP consisting of additions, deletions or other revisions in the specifications and/or drawings, any means and methods or any MLB-furnished lands, equipment, materials or services, or directing acceleration of the work. Such changes will result in the release of an amendment to this RFP with applicable time extensions and changes in costs as deemed necessary.
16. **Underground Utilities:** The successful Respondent shall comply with all laws concerning underground utilities, including but not limited to, Michigan Public Act 174, Miss Dig Underground Facility Damage Prevention and Safety Act. In addition, the successful Respondent shall be responsible for immediately notifying the MLB of any contact with or damage to underground utilities, and for the safety, protection of and repairing of any damage done to any work and any surface and subsurface facilities. The successful Respondent shall bear an appropriate portion of the delay and costs relating to the obligations set forth in this paragraph except as outlined in PA 174, 460.728 Section 8.
17. **Request for Final Payment:** To receive final payment the successful Respondent must have submitted and/or completed the following:
 - a. Complete a substantial completion punch list, if any, within the contract time and date fixed by the MLB.
 - b. Submit all documentation outlined in Section I, C. Deliverables, above.
 - c. If applicable, the successful Respondent must complete any identified incomplete or defective work to the satisfaction of the MLB.

SECTION II SUBMISSION FORMAT

To be considered, each Respondent must submit a COMPLETE submission in response to this RFP using the format specified. Respondent's submission must be submitted in the format outlined below. There should be no attachments, enclosures, or exhibits other than those required in the RFP or considered by the Respondent to be essential to a complete understanding of the submission. Each section of the submission should be clearly identified with appropriate headings:

A) **SUBMISSION**

1. **Business Organization and History** – State the full name, address, and phone and facsimile number of your organization and, if applicable, the branch office or other subordinate element that will perform, or assist in performing, the work hereunder. Indicate whether it operates as an individual, partnership, or corporation; if as a corporation, include the state in which it is incorporated. If appropriate, the submission must state whether the organization is licensed to operate in the State of Michigan.
2. **Statement of the Problem** – State in succinct terms your understanding of MLB's intent presented by this RFP.
3. **Narrative** – Include a narrative summary description of the proposed effort and of the services(s)/products(s) that will be delivered.
4. **Technical Work Plans** – Provide detailed information on the qualifications that your firm has to accomplish each of the areas in the Scope of Work.
5. **Prior Experience** – Describe the prior experience of your organization which you consider relevant to the successful accomplishment of the project defined in this RFP. Include sufficient detail to demonstrate the relevance of such relevant experience. Submissions submitted should include, in this Section, descriptions of qualifying experience to include project descriptions, costs, and starting and completion dates of projects successfully completed; also include the name, address, and phone number of the responsible official of the client organization who may be contacted. The MLB may evaluate the Respondent's prior performance with the MLB or the State of Michigan, and prior performance information may be a factor in the award decision.
6. **Project Staffing** – The Respondent must be able to staff a project team which possesses talent and expertise in the field of the requirements of this RFP. Please provide a **brief** outline of qualifications and similar projects completed for each current staff member and their areas of expertise. Submit copies of any specialized training, certifications and current licenses for each staff member. Indicate which of these individuals you consider key to the successful completion of the work. Do not include any financials for the contemplated work within the Submission.
7. **Subcontractors** – Include a list of all subcontractors that may be engaged to supplement your work under a future contract; include firm name and address, contact person and complete description of work to be subcontracted. Include descriptive information concerning subcontractors' organization and abilities. Also, the information provided in response to A-5 and A-6, above, should include detailed information about each potential

subcontractors.

8. Financial Stability – Provide FY 2016 and 2017 Balance Sheets. Reviews will be made to reasonably ensure Respondent's financial position is such that it will continue to prosper as a business during the term of the contract, and beyond if appropriate, and have adequate financial resources to perform all contractual duties on a reimbursement basis.
9. Respondent's Authorized Expediter – Include the name and telephone number of person(s) in your organization authorized to expedite any proposed contract with the MLB.
10. Insurance – Provide a copy of your Certificate of Insurance including Commercial General Liability insurance, Automobile insurance, Workers Compensation insurance, and Errors and Omissions Liability insurance. All levels of insurance must meet, or exceed, the MLB's contract requirements.
 - a) Commercial General Liability – Occurrence form, including coverage for bodily injury, personal injury, property damage (broad form), premises/operations, blanket contractual, and products/completed operations. Coverage shall be endorsed to include MLB as additional insured for work performed by Contractor or for Contractor in accordance with this Agreement.

Minimum Limits:

 - \$1,000,000 per occurrence/\$2,000,000 general aggregate
 - \$2,000,000 aggregate for products and completed operations
 - \$1,000,000 personal and advertising injury
 - b) Automobile – Michigan no-fault coverage, and residual automobile liability, comprehensive form, covering owned, hired, and non-owned automobiles. Coverage shall be endorsed to include MLB as additional insured for work performed by or for Contractor in accordance with this Agreement.

Minimum Limits:

 - No-fault coverages – statutory
 - \$500,000 per person/\$1,000,000 per accident – bodily injury
 - \$500,000 per occurrence – property damage **OR**
 - A combined single limit of \$1,000,000 per occurrence
 - c) Workers' Compensation – statutory;

Employer's Liability - \$100,000 each accident/\$100,000 disease – each employee; and

\$500,000 disease – policy limit.
11. Additional Information and Comments – Include any other information that is believed to be pertinent, but not specifically asked for elsewhere.
12. References – Provide a minimum of three references for each type of service outlined in the Scope of Work. Include contact name, company name, contact information and very brief description of the work completed.
13. Violations – Briefly list and describe any state or federal environmental or safety violations

your firm has received in the past 5 years from State or Federal inspectors. Briefly summarize the nature of the violation, the current status of the violation and corrective measures taken to avoid future, similar violations.

B) PRICE PROPOSAL

Provide a turnkey price for the project as outlined. The MLB is exempt from federal excise tax, and state and local sales taxes. The Price Proposal should not include taxes. Costs for abatement and demolition should be presented separately.

Separate travel related expenses will not be accepted.

Subject to any agreed extension of the period for holding bids, bids shall remain valid for acceptance by the MLB for ninety (90) calendar days after the date of bid opening. In addition, the MLB expressly reserves the right, within the MLB's sole discretion, to reject any or all bids, to waive any irregularities, to issue post-bid Addenda and rebid the work without re-advertising, to re-advertise for bids, to withhold the award for any reason the MLB determines and/or to take any other appropriate action.

THE PRICE PROPOSAL AND TECHNICAL PORTION MUST BE IDENTIFIED ACCORDING TO THE INSTRUCTIONS OF THIS RFP. Price proposal files will remain unopened until the Joint Evaluation Committee (the "JEC") has completed evaluation of the technical proposals.

Respondents Please Note: Rates quoted in response to this RFP are firm for ninety (90) calendar days after the date of bid opening. No price increase will be permitted during the contract awarded to the successful Respondent.

C) SUBMISSION

Submit separately marked electronic files of your Technical Submission and Price Proposal as noted on the RFP cover page. The MLB has no obligation to consider any Submission that is not timely received. **Submissions will only be accepted as noted on the RFP cover page.**

Your files are limited to 15MB. You may upload more than one file for Price Proposal and/or Technical Submission in response to this RFP.

RESPONDENTS ARE RESPONSIBLE FOR ASSURING THAT THE FOLLOWING IDENTIFYING INFORMATION APPEARS IN THE FILE NAME OF YOUR SUBMISSION: "RFP-CASE-19-0010 Price Proposal" and "RFP-CASE-19-0010 Technical Submission."

SECTION III RFP PROCESS AND TERMS AND CONDITIONS

A) **QUESTIONS**

A pre-bid meeting will be held as noted on the RFP cover page. Questions from Respondents concerning the specifications in this RFP must be received as noted on the RFP cover page.

Questions that are phoned, faxed or sent through regular mail will not be accepted. The MLB has no obligation to respond to questions received after date noted on the RFP cover page

B) **SUBMISSIONS**

To be considered, Respondents must submit a complete response to this RFP, using the format provided in Section II of this RFP, as noted on the RFP cover page. No other distribution of submission is to be made by the Respondent.

The Cover Sheet must be **signed physically or electronically** by the Respondent's Authorized Signatory. The Cover Sheet must be the first page of the Technical Submission.

The proposal must include a statement as to the period during which it remains valid; this period must be at least ninety (90) days from the response date this RFP is due. The rates quoted in the Price Proposal must remain firm for the period indicated in Section II. All print and digital materials submitted become the property of the MLB and will not be returned to the Respondent.

C) **ECONOMY OF PREPARATION**

Each submission should be prepared simply and economically, providing a straightforward, concise description of the Respondent's ability to meet the requirements of the RFP. Emphasis should be on completeness and clarity of content.

D) **SELECTION CRITERIA**

Responses to this RFP will be evaluated based upon a three-step selection process. The submission must address the requirements described in Section II of this RFP.

1) **Step I – Initial evaluation for compliance**

- a) *Submission Content* – MLB staff will screen the submissions for technical compliance to include but not be limited to:
- Timely submission of the documentation.
 - Submission signed physically or electronically.
 - Submissions satisfy the form and content requirements of this RFP.

2) **Step II – Criteria for Satisfactory Submissions**

- a) During the second step of the selection process, submissions will be considered by a Joint Evaluation Committee (the "JEC") comprised of individuals selected by the MLB. Only those submissions that satisfy the requirements described in this

RFP, as determined in the sole discretion of the JEC, will be considered for evaluation in Step II. The JEC reserves the right to request additional information from any Respondent.

- b) *Competence, Experience and Staffing Capacity* – The submission should indicate the ability of the Respondent to meet the requirements of this RFP, especially the time constraints, quality, and recent projects similar to that described in this RFP. The submission should indicate the competence of the personnel whom the Respondent intends to assign to the project, including education and experience, with particular reference to experience on projects similar to that described in this RFP and qualifications of Respondent's Project Manager and the Project Manager's dedicated management time, as well as that of other key personnel working on this project.

		<u>Points Possible</u>
1.	Statement of Work	5
2.	Respondent Information/Completeness	15
3.	Prior Experience	30
4.	Staffing	30
5.	Financial Stability & Insurance	20
	TOTAL	100

- c) During the JEC's review, Respondents may be required to make oral presentations of their proposals to the JEC. These presentations provide an opportunity for the Respondents to clarify the proposals. The MLB will schedule these presentations, if required by the JEC.
- d) Only those proposals receiving a score of **80 or more** in the technical proposal evaluation will have their pricing evaluated to be considered for award.

3) Step III – Selection for Specific Projects

- a) Based on what is in the best interest of the MLB, the MLB will award the Contract considering value, quality, and the ability to meet the objectives of this RFP, of proposals that were approved as a result of this two-step evaluation process.
- b) The MLB reserves the right to consider the economic impact on the State of Michigan when evaluating proposal pricing. This includes, but is not limited to: job creation, job retention, tax revenue implications, and other economic considerations.
- c) The award recommendation will be made to the responsive and responsible qualified Respondent who offers the best value to the MLB and the State of Michigan. Best value will be determined by the MLB with the Respondent meeting the minimum point threshold and offering the *best proposal that meets the objectives of the RFP*.

E) RESPONDENTS COSTS

The MLB is not liable for any costs incurred by any Respondent prior to signing of a Contract by all parties.

F) TAXES

The MLB may refuse to qualify a Respondent who has failed to pay any applicable taxes or if the Respondent has an outstanding debt to the State of Michigan or the MLB.

Except as otherwise disclosed in an exhibit to the submission, Respondent certifies that all applicable taxes are paid as of the date the Respondent's Qualifications were submitted to the MLB and the Respondent owes no outstanding debt to the State of Michigan or the MLB.

G) CONFLICT OF INTEREST

The Respondent must disclose, in an exhibit to the submission, any possible conflicts of interest that may result from the award of a Contract or the services provided under a Contract.

Except as otherwise disclosed in the submission, the Respondent affirms that to the best of its knowledge there exists no actual or potential conflict between the Respondent, the Respondent's project manager(s) or its family's business or financial interests ("Interests") and the services provided under a Contract. In the event of any change in either Interests or the services provided under a Contract, the Respondent will inform the MLB regarding possible conflicts of interest which may arise as a result of such change and agrees that all conflicts shall be resolved to the MLB's satisfaction or the Respondent may be disqualified from consideration under this RFP. As used in this Section, "conflict of interest" shall include, but not be limited to, the following:

- 1) Giving or offering a gratuity, kickback, money, gift, or anything of value to a MLB official, officer, or employee with the intent of receiving a contract from the MLB or favorable treatment under a contract;
- 2) Having or acquiring at any point during the RFP process or during the term of any Contract, any contractual, financial, business or other interest, direct or indirect, that would conflict in any manner or degree with Respondent's performance of its duties and responsibilities to the MLB under a Contract or otherwise create the appearance of impropriety with respect to the award or performance of a Contract; or
- 3) Currently in possession of or accepting during the RFP process or the term of any Contract anything of value based on an understanding that the actions of the Respondent or its affiliates or Interests on behalf of the MLB will be influenced.

H) BREACH OF CONTRACT

Except as otherwise disclosed in an exhibit to Respondent's submission, Respondent is not in material default or breach of any contract or agreement that it may have with the State of Michigan or any of its departments, commissions, boards or agencies, or any other public body in the State of Michigan. Further, Respondent represents and warrants that it has not been a party to any contract with the State of Michigan or any public body that was terminated within the previous five (5) years because the Respondent failed to perform or otherwise breached an obligation of such contract.

I) DISCLOSURE OF LITIGATION

Except as otherwise disclosed in an exhibit to Respondent's submission, there is no criminal litigation, investigations or proceedings involving the Respondent (and each Subcontractor, if Subcontractors will be used to provide the goods/services requested under this RFP) or any of the Respondent's officers or directors or any litigation or proceedings under the Sarbanes-Oxley Act. In addition, Respondents must disclose in the exhibit requested under this Section of the RFP any civil litigation, arbitration or proceeding to which the Respondent (or, to the extent Respondent is aware, any Subcontractor) is a party and which involves: (1) disputes that might reasonably be expected to adversely affect the viability or financial stability of the Respondent (or Subcontractor); or (2) a claim or written allegation of fraud or breach of contract against Respondent (or, to the extent Respondent is aware, Subcontractor), by a governmental or public entity arising out of their business dealings with governmental or public entities. Details of any settlements which Respondent is prevented from disclosing under the terms of the settlement may be annotated as such.

J) FALSE INFORMATION

If the MLB determines that an Respondent purposefully or willfully submitted false information in response to this RFP, the Respondent will not be considered for an award and any resulting Contract that may have been executed may be terminated.

K) DISCLOSURE

All Respondents should be aware that submissions submitted to the MLB in response to this RFP may be subject to disclosure under the provisions of Public Act 442 of 1976, as amended, known as the Freedom of Information Act ("FOIA"). Accordingly, confidential information should be excluded from Respondents' submissions. Respondents, however, are encouraged to provide sufficient information to enable the MLB to determine the Respondent's qualifications and to understand or identify areas where confidential information exists and could be provided. The FOIA also provides for the complete disclosure of a Contract and any attachments or exhibits thereto.

L) PRICES HELD FIRM

LENGTH OF TIME PRICES ARE TO BE HELD FIRM: All rates quoted in Respondent's response to this RFP will be firm for at least ninety (90) days after the response date of this RFP submission. No price changes will be permitted. IN THE EVENT THAT PROPOSED CHANGES ARE NOT ACCEPTABLE TO THE MLB, THE CONTRACT SHALL BE TERMINATED, AND THE MODIFIED CONTRACT SHALL BE SUBJECT TO COMPETITIVE BIDDING.

M) CLARIFICATION/CHANGES IN THE RFP

Changes made to the RFP as the result of responses made to qualifying questions or concerns will be posted through the SIGMA system. Respondents are encouraged to regularly check this site for changes or other information related to the RFP.

If the initial period does not produce a viable response, the MLB may, at its discretion, extend the period until it receives a viable submission. Timelines will be moved to correspond to the accepted submission date. Notification of an extension will be made through SIGMA. The first qualifying submission that is received and accepted will end the extension period.

N) ELECTRONIC BID RECEIPT

YOUR SUBMISSION MUST BE RECEIVED AS NOTED ON THE RFP COVER PAGE.

Respondents are responsible for timely submission of their documentation. THE MLB HAS NO OBLIGATION TO CONSIDER ANY SUBMISSION THAT IS NOT RECEIVED BY THE APPOINTED DATE AND TIME.

O) RESERVATION OF MLB DISCRETION

Notwithstanding any other statement in this RFP, the MLB reserves the right to:

- 1) reject any and all submissions;
- 2) waive any errors or irregularities in the bidding process or in any submission;
- 3) rebid the project;
- 4) negotiate with any Respondent for a reduced price, or for an increased price to include any alternates that the Respondent may propose;
- 5) revise or reduce the scope of the project, and rebid or negotiate with any Respondent regarding the revised project;
- 6) defer or abandon the project;
- 7) amend or revise the RFP; and/or
- 8) request clarification of information submitted and to request additional information of one or more Respondents.

The MLB's decision is final and not subject to appeal. Any attempt by a Respondent, collaborating entity, or other party of interest to the project to influence the awards process, to appeal, and/or take any action, including, but not limited to, legal action, regarding the submission or awards process in general may result in the Respondent's disqualification and elimination from the award process.

P) JURISDICTION

The laws of the State of Michigan shall govern this Agreement. The Parties shall make a good faith effort to resolve any controversies that arise regarding this Agreement. If a controversy cannot be resolved, the Parties agree that any legal actions concerning this Agreement shall be brought in the Michigan Court of Claims or, as appropriate, the Ingham County Circuit Court in Ingham County, Michigan. By signing this Agreement, Respondent acknowledges that it is

subject to the jurisdiction of this court and agrees to service by first class or express delivery wherever Contractor resides, in or outside of the United States.

Q) ADDITIONAL CERTIFICATION

Pursuant to Public Act 517 of 2012, an Iran linked business is not eligible to submit a submission on a request for qualifications, with a public entity.

Respondents must certify on the Cover Sheet that it is not an Iran-linked business as defined in MCL 129.312.

Failure to sign this certification will result in disqualification from consideration.

ATTACHMENT A

Request for Proposal/Qualification Response Cover Sheet Form

(Attach as a cover sheet to your Technical Submission file)

DEMOLITION AND ABATEMENT CONTRACTOR

RFP-CASE-19-0010

General Information:

Firm Legal Name: _____ SIGMA ID #: _____

Firm's DBA (if any): _____

Firm's Address: _____

Firm's Telephone #: _____ Fax #: _____

Contact Name: _____ Contact's Telephone #: _____

Contact's Email Address: _____

Name of Authorized Signatory for the firm: _____

☐ Michigan Limited Liability Company ☐ Michigan Corporation

☐ Other: _____

Check if firm qualifies as any of the following: ☐ DBE ☐ MDE ☐ WBE

CERTIFICATIONS-Authorized Signatory to initial each of the following, as applicable:

_____ Respondent certifies that it is not an Iran-linked business as defined in MCL 129.312.

_____ Respondent certifies that taxes are paid to federal, state, and local jurisdictions as of this date.

_____ Respondent certifies that owes no outstanding debt to the State of Michigan or MLB.

_____ Respondent certifies that: (check one)

- ☐ To the best of its knowledge, there exists no actual or potential conflict of interest between Respondent, Respondent's project manager(s) or its family's business or financial interests ("Interests") and the service provided under a potential Contract.
- ☐ That there is an actual or potential conflict which is explained in the submittal.

Signature of Authorized Signatory

Date: _____

*Your SIGMA ID Number is located in your State of Michigan vendor file. If you are not currently registered as a vendor with the State of Michigan, you may go to: www.michigan.gov/SIGMAVSS and register. If you have any problems, please contact the SIGMA helpline at 1-800-856-6246.

ATTACHMENT B

INDEPENDENT PRICE DETERMINATION AND PRICES HELD FIRM CERTIFICATION

INDEPENDENT PRICE DETERMINATION

By submission of a proposal, the Respondent certifies, and in the case of a joint proposal, each party thereto certifies as to its own organization, that in connection with this proposal:

1. The prices in the proposal have been arrived at independently, without consultation, communication, or agreement, for the purpose of restricting competition as to any matter relating to such prices with any other Respondent or with any competitor;
2. Unless otherwise required by law, the prices which have been quoted in the proposal have not been knowingly disclosed by the Respondent and will not knowingly be disclosed by the Respondent prior to award directly or indirectly to any other Respondent or to any competitor; and
3. No attempt has been made or will be made by the Respondent to induce any other person or firm to submit or not submit a proposal for the purpose of restricting competition.

Each person signing the proposal certifies that she/he:

- A) Is the person in the Respondent's organization responsible within that organization for the decision as to the prices being offered in the proposal and has not participated (and will not participate) in any action contrary to 1, 2, and 3 above; or
- B) Is not the person in the Respondent's organization responsible within that organization for the decision as to the prices being offered in the proposal but has been authorized, in writing, to act as agent for the persons responsible for such decision in certifying that such persons have not participated (and will not participate) in any action contrary to 1, 2, and 3 above.

A proposal will not be considered for award if this Attachment B has been altered so as to delete or modify 1 or 3, above. If 2, above, has been modified or deleted, the proposal will not be considered for award unless the Respondent provides, with this Attachment B, a signed statement which sets forth, in detail, the circumstances of the disclosure and the MLB determines that such disclosure was not made for the purpose of restricting competition.

PRICES HELD FIRM

LENGTH OF TIME PRICES ARE TO BE HELD FIRM: All rates quoted in Respondent's response to this RFP will be firm for ninety (90) calendar days after the date of bid opening. No price changes will be permitted after award of the contract, other than those resulting from an agreed upon change in scope of work.

Signed: _____
Print Name: _____

Date: _____

ATTACHMENT C

**PRE-DEMOLITION ASBESTOS AND HAZARDOUS
MATERIALS SURVEY**

Conducted by AKT Peerless
Date: 11/7/18



Pre-Demolition and Hazardous Materials Survey

Former Glendale Elementary School
3001 Jefferson Street
Muskegon Heights, Michigan 49444

PREPARED FOR Michigan Land Bank Fast Track Authority
300 North Washington Square
Lansing, Michigan 48913

PROJECT # 13789s-2-194

DATE November 7, 2018

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FUNCTIONAL SPACE FIGURES

Figure 1	Subject Property Location Map
Figure 2	Subject Building #1 Functional Space Map
Figure 3	Subject Buildings #2 & #3 Functional Space Map

APPENDICES

Appendix A.....	Photographs
Appendix B.....	Functional Space Table
Appendix C.....	PCB, Mercury, and Other Hazardous Materials Table
Appendix D.....	ACM Laboratory Reports and Chain of Custody

PRE-DEMOLITION AND HAZARDOUS MATERIALS SURVEY

Former Glendale Elementary School
3001 Jefferson Street
Muskegon, Michigan 49444
AKT Peerless Project No. 13789s-2-194

1.0 Introduction

AKT Peerless Environmental Services (AKT Peerless) was retained by the Michigan Land Bank Fast Track Authority (Client) to conduct a Pre-Demolition and Hazardous Materials Surveys of the former Glendale Elementary School located at 3001 Jefferson Street, Muskegon Heights, Michigan. AKT Peerless' scope of work is based on its proposal PS-23358, as well as the terms and conditions of the agreement with the Client. AKT Peerless' Pre-Demolition and Hazardous Materials Survey was performed for the benefit of the Michigan Land Bank Fast Track Authority.

1.1 Purpose

The purpose of AKT Peerless' Pre-Demolition and Hazardous Materials (HazMat) Survey was to identify the location and presence of: (1) asbestos-containing building materials (ACBMs); (2) potential polychlorinated biphenyl (PCB) containing electrical or hydraulic equipment; (3) potentially hazardous or regulated materials/wastes located in containers and drums; (4) potential, mercury or radioactive-containing equipment or materials located in the building; and (5) any other materials that would require special handling or disposal requirements and should be segregated from general construction debris.

1.2 Scope of Work

The scope of work for this survey is specifically designed to support facility demolition, as identified within proposals PS-23358. AKT Peerless understands that the scope of demolition at the site includes all interior and accessible exterior components of the subject buildings.

Michigan Licensing and Regulatory Affairs (LARA) accredited Asbestos Inspectors: Mr. Mark Breeden (A44842) and Mr. Heath Bobick (A43315) of AKT Peerless conducted the Pre-Demolition and Hazardous Materials Survey of the property.

1.2.1 Asbestos Survey

The scope of work for AKT Peerless' asbestos survey is based on the Asbestos School Hazard Abatement Reauthorization Act (ASHARA). The purpose of ASHARA is to extend the Asbestos Hazard Emergency Response Act (AHERA) inspection and management requirements to commercial and industrial buildings. Since the facility is slated for demolition, it is also subject to Environmental Protection Agency (EPA) National Emission Standards for Hazardous Air Pollutants (NESHAP) standards.

Asbestos Containing Material (ACM) survey activities were completed according to the following protocol:

1. Functional spaces were identified for the purpose of assessing all suspect materials, as appropriate.
2. The ACM inspection was performed in an effort to determine the extent and location of ACM present in the subject buildings. This survey was qualitative and quantitative in that an attempt was made to locate accessible friable and non-friable ACM areas, as well as estimate the amount of ACM. All accessible locations of the survey areas were inspected with exception of inaccessible areas or materials not surveyed that are identified in Section 1.3.
3. Bulk samples of suspect ACMs were collected in accordance with professional standards by a Michigan-accredited Asbestos Building Inspector.
4. Bulk samples were collected in each homogeneous area in accordance with EPA-recommended sampling guidelines.
5. Samples of suspect ACM were analyzed by a National Voluntary Laboratory Accreditation Program (NVLAP)-accredited laboratory for analysis, via Polarized Light Microscopy and dispersion staining (PLM) following the EPA Test Method (EPA-600/M4-82-020) and the National Institute of Standards and Technology (NIST) Bulk Asbestos Handbook.
6. In an effort to minimize costs, the laboratory analyses were performed using first positive stop analysis methodologies. First positive stop involves analyzing samples by homogeneous area groupings. Laboratory analyses proceeded sample by sample, within each homogeneous area grouping until a sample was determined to be asbestos containing.
7. Upon completion of the field inspection and receipt of laboratory data, this report was prepared and includes: (a) a general description of the suspect ACM identified and non-suspect homogeneous materials that were visually evaluated; (b) quantity of suspect materials observed as able to be determined; and (c) laboratory testing results.

1.2.2 PCB, Mercury, Lead, and Other Hazardous Materials

The survey for PCBs, potential lead/mercury-containing equipment, and containers that may contain universal hazardous wastes or regulated materials/wastes were completed according to the following procedures:

1. The building was inspected for potential hazardous materials such as PCB-containing light ballasts, batteries, chlorofluorocarbon-containing equipment, smoke detectors, exit signs, and mercury light tubes and switches. The survey of lighting/alarm systems comprised a visual inspection of the exterior of accessible emergency, light and exit sign fixtures, panels or components for possible PCB-containing ballast systems, mercury vapor lighting fixtures, batteries, or other hazardous materials. No intrusive examination or contact with manufacturers, sample collection, or testing of this equipment was performed. Limited sampling was performed as summarized, and as part of the survey report, an inventory of the materials identified has been included that summarizes the quantities of the hazardous building materials observed.

During execution of this survey, the work was performed using commercially reasonable best efforts consistent with the level and skill ordinarily exercised by members of the profession currently practicing under similar conditions.

1.3 Limitations and Exceptions of the Survey

The following general limitations were encountered during the preparation of this survey:

- AKT Peerless uses trained and licensed inspectors in attempting to locate and identify materials potentially containing some form of hazardous material (i.e., asbestos, lead, PCB, etc.). The possibility exists that AKT Peerless did not identify all hazardous materials within the buildings. Some buildings have hidden spaces that may not be immediately obvious to a surveyor, who is not intimately familiar with the building, and who has only a limited time in the building. There may be additional hazardous materials that were not found because they were not visible or accessible to the inspection team. Asbestos, PCB, lead, and mercury were used in a variety of building components and in many types of materials in the construction of buildings. In some of these materials, a hazardous material may be present, not as an intentional ingredient, but as a contaminant.

The following building-specific limitations apply to this Pre-Demolition and Hazardous Materials Survey:

- Areas enclosed by fixed wall, ceiling systems, and roofing systems were restricted to limited visual access in identifying materials such as, but not limited to; pipe wrap, mud fittings, roof flashing, caulks, etc. Fixed wall and ceiling systems may include plaster, drywall partitions, ceramic tile finish, concrete, and masonry, and roofing systems, and may potentially contain multiple layers of building materials. These systems are installed throughout the exterior and interior areas of the building(s). Representative intrusive observations were made above drop ceilings, inside walls, and below flooring materials such as carpeting and roofing, whereas applicable. As such, a complete survey and delineation of all hidden materials were not performed. **Due to these limitations, actual quantities of hazardous materials present may be greater than those inventoried as part of this survey.**
- AKT Peerless conducted limited sampling of accessible roofing materials. Roofing materials not sampled are assumed to contain asbestos, whereas applicable, noted in Section 3.1.
- Access to suspect ACM potentially were located within restricted areas defined as being located within a regulated confined space (i.e., such as pipe chases, pipe trenches, attics, elevator shafts, etc.). These areas require the use of trained confined space professionals, personnel protective equipment, and rescue personnel. AKT Peerless did not access confined space areas.
- Inaccessible suspect materials observed were assumed to contain asbestos.
- The subject buildings are currently vacant. AKT Peerless used portable spotlights and flashlights to improve general viewing conditions whereas applicable.
- During the survey areas of stored items, building contents, and/or building furnishings limited the inspection.
- During the survey, no dismantling of electrical or mechanical equipment was conducted. Since trade personnel was not available (i.e. electricians, plumbers, etc.), no dismantling of equipment was performed to identify the existence of PCB containing components, mercury switches, or asbestos insulation.

- Estimated and not estimated quantities of materials reported are based on observations and estimates made by AKT Peerless at the time of the inspection. Specific materials including, but not limited to: roof flashing, roofing materials, tar coatings, thermal insulation and fittings, pipe wraps and debris, mud fittings, building caulks, and wall adhesives were located in inaccessible areas such as behind fixed walls or ceilings, unsafe areas, confined spaces, and/or elevated heights. **Due to these limitations, actual quantities may vary from those estimated as part of this survey.**

Other limitations pertaining to material accessibility or characterization may also be described in the survey data tables contained herein.

Quantities of identified ACM reported in this document are provided for reference only and are not authorized to be relied upon for Contractor abatement bidding purposes. AKT Peerless strongly cautions against utilizing the reported material quantities without field verification. It is expected that contractors will utilize their own quantities when preparing bid pricing. AKT Peerless recommends that a contingency allowance be used to address estimating method uncertainties for quantified materials.

2.0 Asbestos Survey Methodology

The following sections of this survey outline the approach, procedures, and methods employed by AKT Peerless to complete the ACM Survey of the subject property. Photographs of the subject property are attached as Appendix A.

2.1 Description of Homogenous Areas

During the asbestos survey, AKT Peerless identified Homogeneous Areas (HA) based on appearances and type of materials observed. As defined under AHERA, a homogeneous area is an area (material) that appears similar throughout in terms of its color, texture, and date of material application.

In addition, building materials suspect for asbestos content are also described based on one of three following material classifications:

Surfacing Materials: A material that is sprayed-on, troweled-on, or otherwise applied to surfaces, such as acoustical plaster on ceilings and fireproofing materials on structural members, or other materials on surfaces for acoustical, fireproofing, or other purposes. Glued-on ceiling panels are interpreted by the State of Michigan as a surfacing material.

Thermal System Insulation: A material that is applied to pipes, fittings, boilers, breeching, tanks, ducts, or other interior structural components to prevent heat lost or gain, or water condensation, or for other purposes.

Miscellaneous Materials: A building material on structural components, structural members or fixtures, such as floor and ceiling panels, and does not include surfacing material or thermal system insulation.

AKT Peerless identified homogeneous suspect ACMs at the subject property for sampling. Homogeneous areas were identified based on the site inspection by AKT Peerless. Any materials that were identified, but were not sampled due to inaccessibility were recorded.

2.2 Description of Functional Spaces

In general, functional spaces are defined as spatially distinct units or areas within the building, which contain identifiable populations of building occupants. Functional spaces can also include storage spaces, mechanical rooms, closets and services areas, etc. However, a functional space can also be delineated based on general building layout, facility use factors, and can be assigned using various arbitrary factors that were useful in the completion of this survey.

A Functional Space Table is included in Appendix B.

2.3 Bulk Sample Material Inventory

Based on homogeneous and functional areas identified during the survey, AKT Peerless collected bulk samples for analysis. Samples were collected in polyethylene containers and labeled with an identification number. In general, AKT Peerless' sampling protocol consisted of: (a) wetting or misting the sample as appropriate; (b) extracting a sample with a clean knife, chisel, or coring tool; and (c) placing the sample into its properly labeled sample container.

The sampling protocol used to procure the appropriate number of samples for an identified homogeneous area of suspect ACM is based on sampling guidelines outlined under AHERA or as proposed in the approved scope of work.

2.4 Laboratory Analytical Procedures

All samples collected by AKT Peerless were submitted to Apex Research, Inc. (Apex) of Whitmore Lake, Michigan for analysis. Apex is accredited by the American Industrial Hygiene Association (AIHA) and participates in the NVLAP. Samples were submitted under chain-of-custody guidelines to ensure proper handling and delivery of the samples. The samples were analyzed using PLM with dispersion staining in accordance with the following USEPA guidance document *Determination of Asbestos in Bulk Building Materials*: EPA/600/R-93/116, dated July 1993.

The USEPA defines ACM as those materials that contain **greater than one percent** asbestos. Friable materials are defined as those that can be crumbled or reduced to powder by hand pressure. The NESHAP for asbestos, dated November 1990 stipulates that any friable material identified as containing asbestos in concentrations greater than one percent must be considered ACM.

Materials containing one (1) percent or less asbestos are generally considered non-asbestos-containing, and therefore are not regulated by NESHAP. The OSHA definition of ACM is similarly any material containing more than one (1) percent asbestos. However, specific work practices must be followed under OSHA regulations for materials containing less than one percent asbestos if an individual layer exceeds one percent. Under the PLM method, percentages and types of fibrous components in these samples were determined by visual estimation of the amount of fibrous materials versus the total amount of material present.

Current USEPA guidelines specify that when initial laboratory analysis of friable or non-friable materials regulated under NESHAP detects the presence of asbestos in a quantity between less than one percent (or trace) and less than ten percent, a verification analysis using the point counting analytical method should be considered or the material in question should be treated as ACBM as identified by PLM analysis.

AKT Peerless utilized the “positive-stop” method of sample analyses. In this method, the analyses of a homogeneous material is stopped on a group of samples once the first positive (e.g., greater than 1% asbestos) sample is analyzed. According to the USEPA, if one sample of a homogenous material is identified to be asbestos-containing, the entire material must be considered asbestos-containing.

Based on appearances and type of materials, suspect ACMs were grouped into homogeneous areas and functional spaces as appropriate based on apparent age and similarity in texture and color. Upon completion of these activities, representative bulk samples of the suspect materials were collected. A copy of the bulk sample laboratory report and chain-of-custody record is presented in Appendix D.

3.0 Asbestos and Other Hazardous Materials Conclusions and Recommendations

AKT Peerless was retained by the Client to conduct a Pre-Demolition and Hazardous Materials Survey of the former Glendale Elementary School located at 3001 Jefferson Street, Muskegon Heights, Michigan. The purpose of the survey was to identify hazardous materials that will require special handling procedures or removal activities prior to demolition activities. The following sections of this report summarize the findings of the Pre-Demolition and Hazardous Materials Survey of the three (3) Subject Buildings.

3.1 Homogeneous Area & Asbestos Containing Materials (ACMs)

Based on the results of the asbestos survey, the following ACMs were identified:

Subject Building #1 Summary of Homogeneous Areas & Asbestos Containing Materials

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
Texture Plaster Ceilings*	1-1	Throughout	11,500 SF	F	10% CHR
Interior Glazed Dark Gray Cinder Block and Associated Mortar	2-1	Throughout	NE	NF	NAD
Tan Square Pattern Flooring	3-1	FS-12 Classroom #5	200 SF	NF	NAD
Interior and Exterior Wall Brick and Associated Mortar	4-1	Throughout	NE	NF	Brick NAD Mortar NAD
Dark Brown Cove Base and Associated Adhesives	5-1	Throughout	680 SF	NF	Cove NAD Adhesives NAD

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
Light Gray Cove Base and Associated Adhesives	6-1	FS-15 Office #2 FS-19 Hallway #2 FS-23 Classroom #7	250 LF	NF	Cove NAD Adhesives NAD
9" Gray w/White and Red Streaks Floor Tiles w/Mastic*	7-1	FS-1 Hallway #1 FS-12 Classroom #5 FS-13 Classroom #6 FS-19 Hallway #2 FS-23 Classroom #7 FS-25 Storage Room #3	3,300 SF	NF	Floor Tiles 10% CHR Mastic NAD
Interior Cinder Block and Associated Mortar	8-1	Throughout	NE	NF	Block NAD Mortar NAD
Interior Glazed Tan Cinder Block and Associated Mortar	9-1	FS-20 Gym	980 SF	NF	Block NAD Mortar NAD
9" Tan w/Black Streaks Floor Tiles w/Mastic*	10-1	FS-3 Classroom #2 FS-5 Classroom #4 FS-20 Gym	3,900 SF	NF	Floor Tiles 10% CHR Mastic NAD
9" Black Floor Tiles w/Mastic*	11-1	FS-20 Gym	45 SF	NF	Floor Tiles 10% CHR Mastic NAD
9" Green w/White Streaks Floor Tiles w/Mastic*	12-1	FS-4 Classroom #3 FS-22 Kitchen	1,000 SF	NF	Floor Tiles 10% CHR Mastic NAD
9" Light Green Floor Tiles w/Mastic	13-1	FS-22 Kitchen	5 SF	NF	Floor Tiles NAD Mastic NAD
12" Gray and White Mottled Floor Tiles w/Glue	14-1	FS-19 Hallway #2	120 SF	NF	Floor Tiles NAD Glue NAD
9" Light Green w/Black and White Streaks Floor Tiles	15-1	FS-1 Hallway #1 FS-19 Hallway #2	45 SF	NF	Floor Tiles NAD Glue NAD
Glazed Pink Cinder Block and Associated Mortar	16-1	FS-26 Bathroom #2	675 SF	NF	Block NAD Mortar NAD

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
Glazed Yellow w/Black Spots Cinder Block and Associated Mortar	17-1	FS-27 Bathroom #3	675 SF	NF	Block NAD Mortar NAD
12" White w/Red and Green Streaks Floor Tiles w/Mastic	18-1	FS-1 Hallway #1	10 SF	NF	Floor Tiles NAD Mastic NAD
9" Mottled Brown Floor Tiles w/Mastic*	19-1	FS-9 Office #1	160 SF	NF	Floor Tiles 10% CHR Mastic NAD
9" Light Brown Mottled Floor Tiles*	20-1	FS-9 Office #1	160 SF	NF	Floor Tiles 10% CHR Mastic NAD
Plaster in Skylight Boxes	21-1	FS-1 Hallway #1 FS-19 Hallway #2	200 SF	F	NAD
Pink Ceramic Wall Tiles and Associated Adhesives (Mortar)	22-1	FS-29 Bathroom #4	100 SF	NF	Ceramic Wall Tiles NAD Mortar NAD
Multi-Colored Ceramic Floor Tiles and Associated Adhesives (Mortar)	23-1	FS-26 Bathroom #2 FS-29 Bathroom #4	240 SF	NF	Ceramic Floor Tiles NAD Mortar NAD
6" Square Ceramic Floor Tiles and Associated Adhesives	24-1	FS-1 Hallway #1 FS-14 Lobby FS-18 Vestibule FS-19 Hallway #2	720 SF	NF	Ceramic Floor Tiles NAD Mortar NAD
Glue Pods Behind Chalk and Cork Boards	25-1	FS-2 Classroom #1 FS-3 Classroom #2 FS-4 Classroom #3 FS-5 Classroom #4 FS-12 Classroom #5 FS-13 Classroom #6 FS-23 Classroom #7	550 SF	NF	NAD
Gray and White Caulk on Aluminum Door Frames	26-1	FS-14 Lobby FS-18 Vestibule	50 LF	NF	NAD

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
Yellow and White Ceramic Floor Tiles and Associated Mortar	27-1	FS-27 Bathroom #3	260 SF	NF	Ceramic Floor Tiles NAD Mortar NAD
Green Base Cove and Associated Adhesives*	28-1	FS-23 Classroom #7	140 LF	NF	Cove NAD Yellow Adhesives NAD Brown Glue 1.50% CHR (PC)
Smooth Plaster Ceilings	29-1	Throughout	2,400 SF	F	NAD
White and Tan Square Pattern Flooring	30-1	FS-20 Gym	120 SF	F	NAD
4' x 8' White Textured Ceiling Panels*	31-1	FS-20 Gym	2,280 SF	F	Assumed
Pipe Insulation*	32-1	FS-8 Boiler Room	100 LF	F	10% CHR 15% AMO
Pipe Fitting Insulation*	33-1	FS-20 Gym	26 CT	F	2% CHR 15% AMO
Exterior Building Caulk on Door Frames*	34-1	FS-31 Exterior	258 LF	NF	10% CHR
Exterior Awning Stucco	35-1	FS-31 Exterior	740 SF	F	NAD
Exterior Black Foundation Tar*	36-1	FS-31 Exterior	NE	NF	20% CHR
Glazing on Exterior Aluminum Window Frames*	37-1	FS-31 Exterior	75 CT	NF	10% CHR
Exterior Suspect Vent Pipe/Fill Port Covering Materials -Gray	38-1	FS-31 Exterior	6 SF	F	NAD
Exterior Building Caulk on Door Frames – Brown	39-1	FS-31 Exterior	21 LF	NF	NAD
Exterior Building Caulk Dark Brown on Utility and HVAC Vents	40-1	FS-31 Exterior	14 LF	NF	NAD
Exterior Building Caulk on Aluminum Framed Windows – Thick Bead	41-1	FS-31 Exterior	208 LF	NF	NAD

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
Exterior Building Caulk on Aluminum Framed Windows – Metal Panes to Frame	42-1	FS-31 Exterior	1,504 LF	NF	NAD
Exterior Building Caulk - Window Frames to Building – Thin Bead	43-1	FS-31 Exterior	566 LF	NF	NAD
Roofing/Flashing Materials*	44-1	FS-31 Exterior	8,100 SF	NF	Felt NAD Roofing Cement 20% CHR White Caulk NAD Membrane NAD Mesh NAD Brown Caulk NAD
Concrete Pad	45-1	Throughout	NE	NF	NAD
Carpet Glue	46-1	Throughout	NE	NF	NAD
Brick Inside Incinerator*	47-1	FS-8 Boiler Room	60 SF	F	Assumed
Fire Doors and Frames	48-1	Throughout	NE	NF	Assumed
Chalk Boards*	49-1	Throughout	NE	NF	Assumed

*Remove All Layers as Asbestos Containing

Table Notes:

F = Friable NF = Non-friable FS = Functional Space NAD = No Asbestos Detected CHR = Chrysotile
 AMO = Amosite SF = Square Feet LF = Linear Feet PC = Point Count NE = Not Estimated
 CRO = Crocidolite ACT = Actinolite T = Tile M = Mastic MF = Mud Fittings CF = Cubic Feet
 ACM = Asbestos Containing Material (Greater than 1% Asbestos Content) NS = Not Sampled
 ASSUMED = Suspect material that was not sampled, but was assumed asbestos-containing

Subject Building #2
Summary of Homogeneous Areas & Asbestos Containing Materials

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
2' x 4' White Ceiling Tiles w/Pinoles and Fissures	1-1	FS-1 Classroom	770 SF	F	NAD
12" White Ceiling Tiles w/Pinholes	2-1	FS-1 Classroom	770 SF	F	NAD

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
White Square Pattern Flooring	3-1	FS-3 Bathroom #1 FS-5 Bathroom #2	120 SF	NF	NAD
Drywall	4-1	Throughout	200 SF	NF	NAD
Yellow Crackle Pattern Flooring	5-1	FS-2 Storage Room	20 SF	NF	NAD
Brown Cove Base and Associated Adhesives	6-1	FS-3 Bathroom #1 FS-5 Bathroom #2	35 LF	NF	NAD
Exterior Building Caulks – Red and Brown	7-1	FS-7 Exterior	160 LF	NF	NAD
Carpet Adhesives	8-1	FS-1 Classroom	770 SF	NF	NAD
Roofing Materials	9-1	FS-7 Exterior	1,480 SF	NF	NAD
Foundation Cinder Block and Associated Mortar	10-1	FS-7 Exterior	NE	NF	NAD
Exterior Brick and Associated Mortar	11-1	FS-7 Exterior	NE	NF	Brick NAD Mortar NAD

***Remove All Layers as Asbestos Containing**

Table Notes:

F = Friable NF = Non-friable FS = Functional Space NAD = No Asbestos Detected CHR = Chrysotile
 AMO = Amosite SF = Square Feet LF = Linear Feet PC = Point Count NE = Not Estimated
 CRO = Crocidolite ACT = Actinolite T = Tile M = Mastic MF = Mud Fittings CF = Cubic Feet
 ACM = Asbestos Containing Material (Greater than 1% Asbestos Content) NS = Not Sampled
 ASSUMED = Suspect material that was not sampled, but was assumed asbestos-containing

Subject Building #3
Summary of Homogeneous Areas & Asbestos Containing Materials

Material Description	HA	Identified Locations	Estimated Quantity	F/NF	Asbestos Content
White Textured Paint	1-1	FS-1 Interior	1,700 SF	F	NAD
Drywall and Joint Compound	2-1	FS-1 Interior	3,700 SF	NF	NAD
Drywall Adhesives	3-1	FS-1 Interior	70 SF	NF	NAD
12" White and Tan Mottled Floor Tiles	4-1	FS-1 Interior	150 SF	NF	NAD
Exterior Cementitious Panels	5-1	FS-2 Exterior	2,050 SF	NF	NAD
Roofing Materials	6-1	FS-2 Exterior	1,775 SF	NF	NAD

***Remove All Layers as Asbestos Containing**

Table Notes:

F = Friable NF = Non-friable FS = Functional Space NAD = No Asbestos Detected CHR = Chrysotile
AMO = Amosite SF = Square Feet LF = Linear Feet PC = Point Count NE = Not Estimated
CRO = Crocidolite ACT = Actinolite T = Tile M = Mastic MF = Mud Fittings CF = Cubic Feet
ACM = Asbestos Containing Material (Greater than 1% Asbestos Content) NS = Not Sampled
ASSUMED = Suspect material that was not sampled, but was assumed asbestos-containing

The following summarizes our recommendations regarding the ACMs identified:

1. Green Cove Base and Associated Adhesives (HA-28) were observed within Classroom #7 (FS-28). Analytical results for the Brown Adhesives identified as part of HA-28 tested positive for ACM content. Other types of Cove Base and Associated Adhesives were identified during the survey, and sampled, and analytical results yielded non-detect for asbestos for the Cove Base and non-detect for the associated adhesives. However, due to variable ACM content of the Cove Base Adhesives per functional space, AKT Peerless recommends that all Cove Base with Associated Adhesives, similar in appearance to HA-28 Brown Adhesives, and potential associated materials that potentially are impacted, such as but not limited to; walling, cove base, flooring, etc., be treated as ACM containing and/or impacted in accordance with all applicable state and federal regulations. The Brown Adhesive present in HA-28 is similar in color, texture, etc. to non-detect adhesives and creates an inability to delineate between areas of asbestos containing and non-asbestos containing materials.
2. ACMs not accessible or sampled as part of the survey, or discovered during the demolition, are required to be assumed asbestos containing and handled appropriately in accordance with state and federal regulations. Assumed materials must be removed by a licensed contractor in accordance with applicable state and federal regulations or sampled to verify asbestos content.
3. Based on the findings of the Asbestos Survey and the anticipated demolition of the buildings, AKT Peerless recommends that all identified ACMs that can be safely removed, be properly removed by a licensed contractor in accordance with applicable state and federal regulations.
4. Suspect materials discovered during demolition activities are required to be assumed asbestos containing and handled appropriately in accordance with state and federal regulations unless determined through laboratory testing identifying them as no-asbestos containing.
5. AKT Peerless attempted to quantify materials based on visual observations made during the survey. Further, it is AKT Peerless' opinion additional quantities of ACM may be identified during demolition activities and disposed of in accordance with State and Federal Regulations.

3.2 Summary of Identified Other Potentially Hazardous Materials

During the Hazardous Material Survey, AKT Peerless observed the existence of various types of potentially hazardous materials within the various buildings. In general, these materials were stored in containers of various capacities. An inventory of hazardous building materials and containers was prepared and is included in Appendix C.

The survey was conducted to identify universal hazardous wastes or regulated materials/wastes. The building was inspected for potential hazardous materials, such as PCBs or oil containing light ballasts,

batteries, chlorofluorocarbon-containing equipment, smoke detectors, exit signs, mercury light tubes and switches, and underground storage tanks (USTs). No intrusive examination or contact with manufacturers, sample collection, or testing of this equipment was performed. No sampling of any hazardous component materials was performed.

AKT Peerless recommends that qualified contractors perform the removal of these materials and follow appropriate special handling and disposal measures, which are required before general building demolition activities. Based on the conditions observed it is recommended that unknown waste materials and oil stained concrete, as well as standing water that may be identified during demolition activities within but not limited to cisterns, basements, sump basins, and/or potential storm water discharge pits are appropriately characterized for waste disposal or recycling purposes, whereas applicable.

Hazardous Materials Recommendation:

The following summarizes our recommendations regarding the hazardous materials identified:

1. During AKT Peerless' site inspection, a suspected fill port and vent pipe was observed on the exterior of the northern portion of Subject Building 1. The potential exists these items are associated with an underground storage tank (UST). AKT Peerless recommends further on-site investigation and/or assessment in order to evaluate the suspected fill port and vent pipe, prior to demolition activities.
2. The materials included in Hazardous / Regulated Materials Summary and other items banned from landfill disposal, identified during the demolition should be properly removed and disposed of in accordance with applicable regulations.
3. AKT Peerless recommends that qualified contractors perform the removal of these materials and follow appropriate special handling and disposal measures, which are required before general building demolition. Based on the conditions observed, it is recommended that unknown waste materials, and oil stained concrete be sampled and appropriately characterized for waste disposal or recycling purposes, whereas applicable.
4. During any future demolition activities, in the event of any identified oil stained concrete, the contractor must delineate materials and segregate materials from the recyclable materials.

3.3 Electrical Transformers

AKT Peerless identified one pole mounted electrical transformer located at the Eastern portion of the subject property.

4.0 Limitations

The information and opinions obtained in this report are for the exclusive use of the Client. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without written consent or as required by law or by a Court order. The information and opinions contained in the report are given in light of that assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed upon by the parties and as limited therein. Any third parties, who have been extended the right to

rely on the contents of this report by AKT Peerless (which is expressly required prior to any third-party release), agrees to be bound by the original terms and conditions entered into by AKT Peerless and the Client.

Subject to the above and the terms and conditions, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession but disclaims any responsibility for consequential damages. Although AKT Peerless believes that results contained herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive or that the information provided by the Client(s) or third parties is complete or accurate.

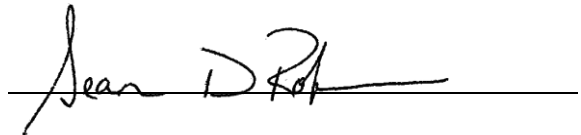
5.0 Signatures of Environmental Professionals

The following individuals contributed to the completion of this report.



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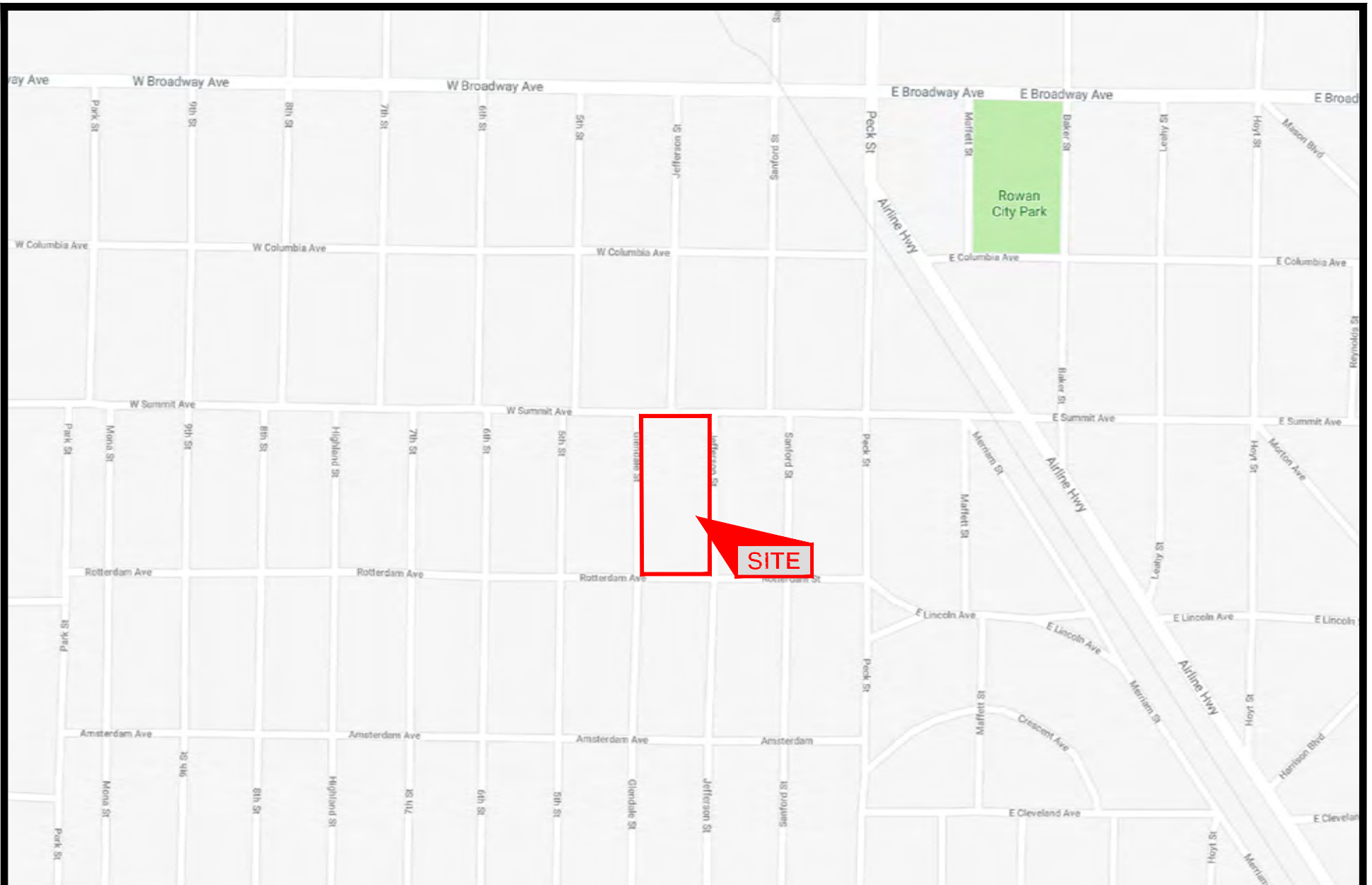
The following also contributed to the completion of this report.



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AKT Peerless
Saginaw, Michigan Office

MIOSHA LARA CSHD Asbestos Inspector
Accreditation No. A51774

Functional Space Figures



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SUBJECT PROPERTY LOCATION MAP

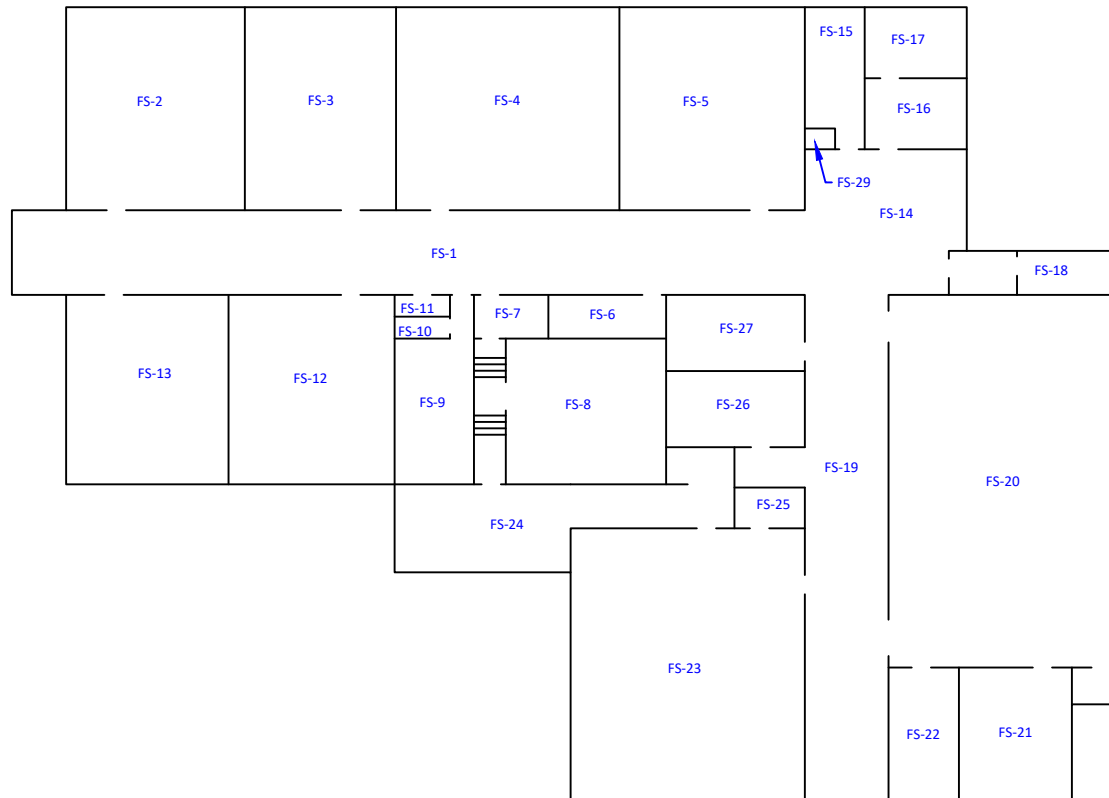
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-4-194

LEGEND



DRAWN BY: OGO
DATE: 11/01/2018

FIGURE 1



FS-28 - PIPE CHASE
FS-30 - STEAM TUNNEL
FS-31 - EXTERIOR



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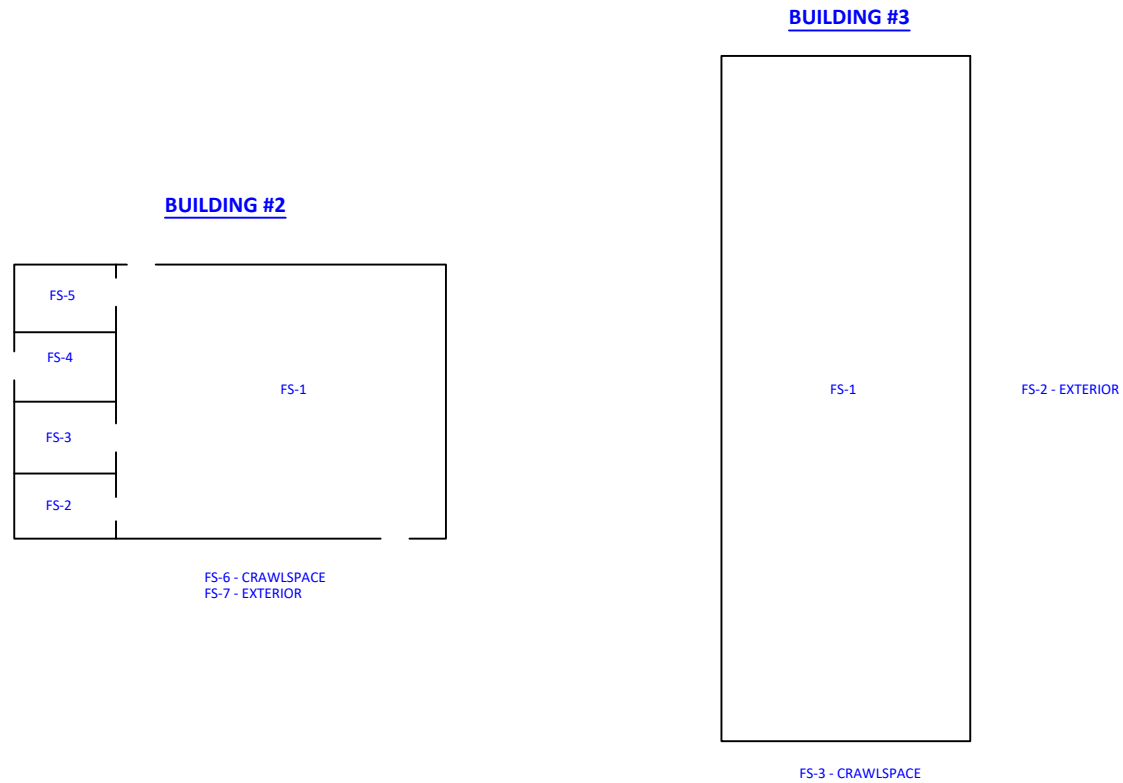
FUNCTIONAL SPACE MAP - BUILDING 1

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-4-194

DRAWN BY: OGO
DATE: 11/01/2018

0 15 30
SCALE: 1" = 30'

FIGURE 2



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FUNCTIONAL SPACE MAP - BUILDINGS 2 & 3

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-4-194

DRAWN BY: OGO
DATE: 11/01/2018

0 10 20
SCALE: 1" = 10'

FIGURE 3

Appendix A

Photographs



VIEW OF SUBJECT BUILDING 1 FACING SOUTHWEST



VIEW OF SUBJECT BUILDING 1 FACING NORTH



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



**VIEW OF SUBJECT BUILDING 1
SUSPECT VENT PIPE AND ASSOCIATED UNDERGROUND STORAGE TANK**



**INTERIOR VIEW OF SUBJECT BUILDING 1
BOILER ROOM**



**INTERIOR VIEW OF SUBJECT BUILDING 1
UTILITY CLOSET**



**INTERIOR VIEW OF SUBJECT BUILDING 1
HALLWAY**



**INTERIOR VIEW OF SUBJECT BUILDING 1
REPRESENTATIVE CLASSROOM**



**INTERIOR VIEW OF SUBJECT BUILDING 1
GYMNASIUM**



PROPERTY PHOTOGRAPHS

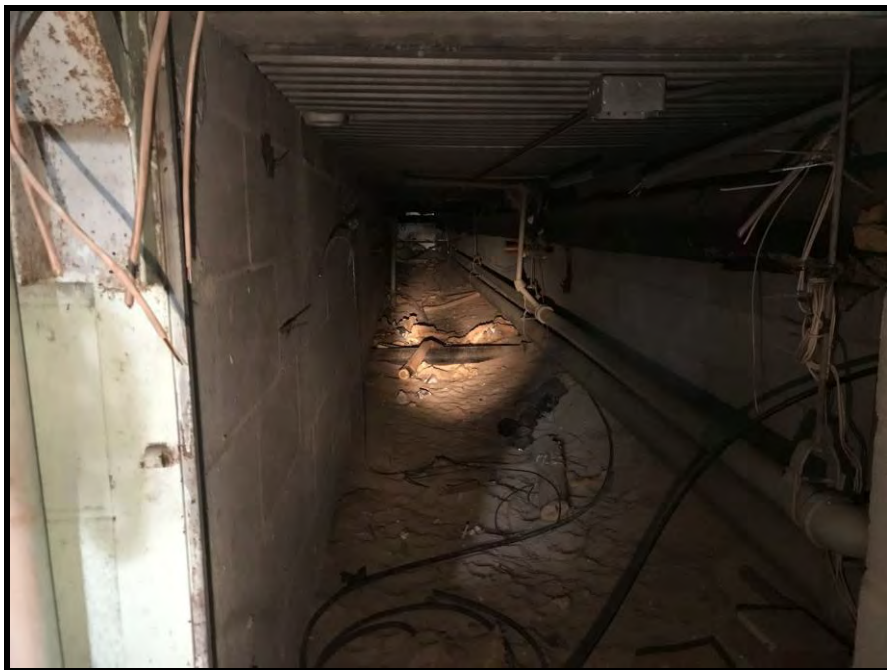
FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



**INTERIOR VIEW OF SUBJECT BUILDING 1
LOBBY**



**INTERIOR VIEW OF SUBJECT BUILDING 1
PIPE CHASES**



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



VIEW OF SUBJECT BUILDING 2 EAST



VIEW OF SUBJECT BUILDING 2 FACING WEST



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



**INTERIOR VIEW OF SUBJECT BUILDING 2
CLASSROOM**



**INTERIOR VIEW OF SUBJECT BUILDING 2
CLASSROOM**



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



**VIEW OF SUBJECT BUILDING 2
CRAWLSPACE**



VIEW OF SUBJECT BUILDING 3 FACING SOUTHEAST



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



VIEW OF SUBJECT BUILDING 3 FACING NORTHWEST



INTERIOR VIEW OF SUBJECT BUILDING 3



PROPERTY PHOTOGRAPHS

FORMER GLENDALE ELEMENTARY SCHOOL
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



**INTERIOR VIEW OF SUBJECT BUILDING 3
CRAWLSPACE**



**VIEW OF SUBJECT PROPERTY
STORM WATER ACCESS PORT**

Appendix B

Functional Space Table

FUNCTIONAL SPACE (FS) LISTING

CLIENT: Michigan Land Bank Fast Track Authority
PROJECT NO: 13789s-2-194
Project Name: Former Glendale Elementary School
PROJECT ADDRESS: 3001 Jefferson Street, Muskegon Heights, MI

Functional Space No.	Description
Building #1	
FS-1	Hallway #1
FS-2	Classroom #1
FS-3	Classroom #2
FS-4	Classroom #3
FS-5	Classroom #4
FS-6	Storage Room #1
FS-7	Utility Room
FS-8	Boiler Room
FS-9	Office #1
FS-10	Bathroom #1
FS-11	Janitor's Closet
FS-12	Classroom #5
FS-13	Classroom #6
FS-14	Lobby
FS-15	Office #2
FS-16	Office #3
FS-17	Office #4
FS-18	Vestibule
FS-19	Hallway #2
FS-20	Gym
FS-21	Storage Room #2
FS-22	Kitchen
FS-23	Classroom #7
FS-24	Hallway #3
FS-25	Storage Room #3
FS-26	Bathroom #2
FS-27	Bathroom #3
FS-28	Pipe Chase
FS-29	Bathroom #4
FS-30	Steam Tunnel
FS-31	Exterior
Building #2	
FS-1	Classroom
FS-2	Storage Room
FS-3	Bathroom #1
FS-4	Utility Room
FS-5	Bathroom #2

FUNCTIONAL SPACE (FS) LISTING

CLIENT: Michigan Land Bank Fast Track Authority
PROJECT NO: 13789s-2-194
Project Name: Former Glendale Elementary School
PROJECT ADDRESS: 3001 Jefferson Street, Muskegon Heights, MI

Functional Space No.	Description
FS-6	Crawlspace
FS-7	Exterior
Building #3	
FS-1	Interior
FS-2	Exterior
FS-3	Crawlspace

Appendix C

PCB, Mercury, and Other Hazardous Materials Table

Client: Michigan Land Bank Fast Track Authority
 Project No: 13789s-2-194
 Project Name: Former Glendale Elementary School
 Project Address: 3001 Jefferson Street, Muskegon Heights, Michigan

HAZARDOUS MATERIALS INVENTORY

Materials Location Functional Space #	Miscellaneous Hazardous Materials	Exit Signs w/Lighting & Battery	Types of Bulbs		Light Ballasts	Smoke Detectors	Compressed Gasses	Automobiles, Trucks, Vehicles	Door Actuator	Gas Powered Lawnmowers, Motors, Snow Blowers, etc.	Thermostat / Thermometer	Fire Extinguishers	Televisions	Misc. Electronics	Appliances (Stoves, Refrigerators, etc.)	Aerosol Cans	Misc. Cleaners	Misc. Paints, Varnish, Stains & Adhesives	Tires	Automotive Fluids
			CFL's, Mercury Vapor, High Pressure Sodium, Miscellaneous Bulb	Fluorescent Tube Lighting																
Subject Building #1																				
FS-1		1				1			2		1									
FS-2						1					1									
FS-3						1					1									
FS-4						1														
FS-5					1	1														
FS-6						1														
FS-7																	1			
FS-8	Hot Water Heater - 1 CT, Mercury Switch - 1 CT, Air Compressor - 1 CT		4			1			1											
FS-9						2					1									

Client: Michigan Land Bank Fast Track Authority
 Project No: 13789s-2-194
 Project Name: Former Glendale Elementary School
 Project Address: 3001 Jefferson Street, Muskegon Heights, Michigan

HAZARDOUS MATERIALS INVENTORY

Materials Location Functional Space #	Miscellaneous Hazardous Materials	Exit Signs w/Lighting & Battery	Types of Bulbs		Light Ballasts	Smoke Detectors	Compressed Gasses	Automobiles, Trucks, Vehicles	Door Actuator	Gas Powered Lawnmowers, Motors, Snow Blowers, etc.	Thermostat / Thermometer	Fire Extinguishers	Televisions	Misc. Electronics	Appliances (Stoves, Refrigerators, etc.)	Aerosol Cans	Misc. Cleaners	Misc. Paints, Varnish, Stains & Adhesives	Tires	Automotive Fluids
			CFL's, Mercury Vapor, High Pressure Sodium, Miscellaneous Bulb	Fluorescent Tube Lighting																
FS-10	No Hazardous Materials Identified During Survey																			
FS-11	No Hazardous Materials Identified During Survey																			
FS-12						1					1									
FS-13						1					1									
FS-14					1	1														
FS-15													1							
FS-16				2	1															
FS-17						1														
FS-18											1									
FS-19				2					2		1									
FS-20				61	34	6														
FS-21				86	46	1					1									
FS-22						1					1									
FS-23				14	7						1									

Client: Michigan Land Bank Fast Track Authority
 Project No: 13789s-2-194
 Project Name: Former Glendale Elementary School
 Project Address: 3001 Jefferson Street, Muskegon Heights, Michigan

HAZARDOUS MATERIALS INVENTORY

Materials Location Functional Space #	Miscellaneous Hazardous Materials	Exit Signs w/Lighting & Battery	Types of Bulbs		Light Ballasts	Smoke Detectors	Compressed Gasses	Automobiles, Trucks, Vehicles	Door Actuator	Gas Powered Lawnmowers, Motors, Snow Blowers, etc.	Thermostat / Thermometer	Fire Extinguishers	Televisions	Misc. Electronics	Appliances (Stoves, Refrigerators, etc.)	Aerosol Cans	Misc. Cleaners	Misc. Paints, Varnish, Stains & Adhesives	Tires	Automotive Fluids
			CFL's, Mercury Vapor, High Pressure Sodium, Miscellaneous Bulb	Fluorescent Tube Lighting																
FS-24											1									
FS-25	No Hazardous Materials Identified During Survey																			
FS-26						1														
FS-27				2		1					1									
FS-28			1																	
FS-29	No Hazardous Materials Identified During Survey																			
FS-30	No Hazardous Materials Identified During Survey																			
FS-31	HVAC Roof Top System - 1 CT, Suspect Vent Pipe and Suspect Associated UST - 1 CT		3																	
Subject Building #2																				
FS-1				18	9	2					1	1				33				
FS-2	No Hazardous Materials Identified During Survey																			
FS-3			1													1				
FS-4	AC Unit - 1 CT																			

Client: Michigan Land Bank Fast Track Authority
 Project No: 13789s-2-194
 Project Name: Former Glendale Elementary School
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HAZARDOUS MATERIALS INVENTORY

Materials Location Functional Space #	Miscellaneous Hazardous Materials	Exit Signs w/Lighting & Battery	Types of Bulbs		Light Ballasts	Smoke Detectors	Compressed Gases	Automobiles, Trucks, Vehicles	Door Actuator	Gas Powered Lawnmowers, Motors, Snow Blowers, etc.	Thermostat / Thermometer	Fire Extinguishers	Televisions	Misc. Electronics	Appliances (Stoves, Refrigerators, etc.)	Aerosol Cans	Misc. Cleaners	Misc. Paints, Varnish, Stains & Adhesives	Tires	Automotive Fluids
			CFL's, Mercury Vapor, High Pressure Sodium, Miscellaneous Bulb	Fluorescent Tube Lighting																
FS-5	No Hazardous Materials Identified During Survey																			
FS-6	No Hazardous Materials Identified During Survey																			
FS-7			1																	
Subject Building #3																				
FS-1						1							2							
FS-2			1																	
FS-3	No Hazardous Materials Identified During Survey																			
Totals																				
Totals		0	11	185	99	24	0	0	3	0	12	1	3	0	0	34	1	0	0	0

Appendix D

ACM Laboratory Reports and Chain of Custody

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 01
Cust. #: 1-1
Material: Textured Plaster Ceiling
Location:
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Cellulose - 35%
Other - 55%

Lab ID #: 80685 - 02
Cust. #: 1-2
Material: Textured Plaster Ceiling
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 03
Cust. #: 1-3
Material: Textured Plaster Ceiling
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



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Saginaw, MI 48607

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Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 04
Cust. #: 1-4
Material: Textured Plaster Ceiling
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 05
Cust. #: 1-5
Material: Textured Plaster Ceiling
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 06
Cust. #: 1-6
Material: Textured Plaster Ceiling
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



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Saginaw, MI 48607

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Date Collected: 10/24/18
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Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 07

Asbestos Present:

Cust. #: 1-7

Material: Textured Plaster Ceiling

Location:

NOT ANALYZED

Appearance:

Layer: of

Lab ID #: 80685 - 08

Asbestos Present: **NO**

Other - 100%

Cust. #: 2-1

No Asbestos Observed

Material: Interior Glazed Dk Grey Cinder Block

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

Lab ID #: 80685 - 09

Asbestos Present: **NO**

Other - 100%

Cust. #: 2-2

No Asbestos Observed

Material: Interior Glazed Dk Grey Cinder Block

Location:

Appearance: grey,nonfibrous,homogenous

Layer: 1 of 1

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Project # :13789s-2-194 Building #1



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Date Collected: 10/24/18
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Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 10
Cust. #: 3-1
Material: Tan Square Pattern Flooring
Location:
Appearance: beige, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 10%
Fiberglass - 10%
Other - 80%

Lab ID #: 80685 - 11
Cust. #: 3-2
Material: Tan Square Pattern Flooring
Location:
Appearance: beige, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 10%
Fiberglass - 10%
Other - 80%

Lab ID #: 80685 - 12
Cust. #: 4-1
Material: Interior/Exterior Wall Brick
Location:
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



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Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 12a
Cust. #: 4-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 13
Cust. #: 4-2
Material: Interior/Exterior Wall Brick
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 13a
Cust. #: 4-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



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Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 14
Cust. #: 5-1
Material: Dark Brown Cove Base
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 14a
Cust. #: 5-1
Material: Adhesive
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 15
Cust. #: 5-2
Material: Dark Brown Cove Base
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



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AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
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Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 15a
Cust. #: 5-2
Material: Adhesive
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 16
Cust. #: 6-1
Material: Light Grey Cove Base
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 16a
Cust. #: 6-1
Material: Adhesive
Location:
Appearance: white,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 17 Cust. #: 6-2 Material: Light Grey Cove Base Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 17a Cust. #: 6-2 Material: Adhesive Location: Appearance: white,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 18 Cust. #: 7-1 Material: 9" Grey w/ White/Red Streaks FT Location: Appearance: grey,fibrous,homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 3001 Jefferson, Muskegon Heights, MI
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ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 18a
Cust. #: 7-1
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 19
Cust. #: 7-2
Material: 9" Grey w/ White/Red Streaks FT
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 19a
Cust. #: 7-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 20
Cust. #: 8-1
Material: Interior Cinder Block
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 20a
Cust. #: 8-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 21
Cust. #: 8-2
Material: Interior Cinder Block
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 21a
Cust. #: 8-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 22
Cust. #: 9-1
Material: Interior Glazed Tan Cinder Block
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 22a
Cust. #: 9-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 23
Cust. #: 9-2
Material: Interior Glazed Tan Cinder Block
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 23a
Cust. #: 9-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 24
Cust. #: 10-1
Material: 9" Tan w/ Black Streaks Floor Tile
Location:
Appearance: brown,fibrous,homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 24a
Cust. #: 10-1
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 25
Cust. #: 10-2
Material: 9" Tan w/ Black Streaks Floor Tile
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 25a
Cust. #: 10-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Robert T. Letarte Jr., Laboratory Director

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 26
Cust. #: 11-1
Material: 9" Black Floor Tile
Location:
Appearance: black, fibrous, homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 80685 - 26a
Cust. #: 11-1
Material: Mastic
Location:
Appearance: black, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 27
Cust. #: 11-2
Material: 9" Black Floor Tile
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 27a
Cust. #: 11-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 28
Cust. #: 12-1
Material: 9" Green w/ White Streaks Floor Tile
Location:
Appearance: green,fibrous,homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 80685 - 28a
Cust. #: 12-1
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 29
Cust. #: 12-2
Material: 9" Green w/ White Streaks Floor Tile
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 29a
Cust. #: 12-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 30
Cust. #: 13-1
Material: 9" Light Green Floor Tile
Location:
Appearance: green,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 30a Cust. #: 13-1 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 80685 - 31 Cust. #: 13-2 Material: 9" Light Green Floor Tile Location: Appearance: green,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 31a Cust. #: 13-2 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 32
Cust. #: 14-1
Material: 12" Grey/White Mottled Floor Tile
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 32a
Cust. #: 14-1
Material: Glue
Location:
Appearance: yellow,nonfibrous,nonhomogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 1%
Other - 99%

Lab ID #: 80685 - 33
Cust. #: 14-2
Material: 12" Grey/White Mottled Floor Tile
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 33a Cust. #: 14-2 Material: Glue Location: Appearance: yellow,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 80685 - 34 Cust. #: 15-1 Material: 9" Lt Green w/ Black/White Streaks FT Location: Appearance: green,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 34a Cust. #: 15-1 Material: Glue Location: Appearance: yellow,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 35 Cust. #: 15-2 Material: 9" Lt Green w/ Black/White Streaks FT Location: Appearance: green,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 35a Cust. #: 15-2 Material: Glue Location: Appearance: yellow,nonfibrous,nonhomogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 80685 - 36 Cust. #: 17-1 Material: Glazed Yellow, Black Spots Cinder Block Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 37
Cust. #: 17-2
Material: Glazed Yellow, Black Spots Cinder Block
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 37a
Cust. #: 17-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 38
Cust. #: 18-1
Material: 12" White, Red/Green Streaks Floor Tile
Location:
Appearance: white,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 38a Cust. #: 18-1 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 39 Cust. #: 18-2 Material: 12" White, Red/Green Streaks Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 39a Cust. #: 18-2 Material: Mastic Location: Appearance: black,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 40 Cust. #: 19-1 Material: 9" Mottled Brown Floor Tile Location: Appearance: brown, fibrous, homogenous Layer: 1 of 2	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 80685 - 40a Cust. #: 19-1 Material: Mastic Location: Appearance: black, nonfibrous, homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 41 Cust. #: 19-2 Material: 9" Mottled Brown Floor Tile Location: Appearance: Layer: 1 of 2	Asbestos Present: NOT ANALYZED	

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 41a
Cust. #: 19-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 42
Cust. #: 20-1
Material: 9" Light Brown Mottled Floor Tile
Location:
Appearance: brown,fibrous,homogenous
Layer: 1 of 2

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

Lab ID #: 80685 - 42a
Cust. #: 20-1
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 43
Cust. #: 20-2
Material: 9" Light Brown Mottled Floor Tile
Location:
Appearance:
Layer: 1 of 2

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 43a
Cust. #: 20-2
Material: Mastic
Location:
Appearance: black,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 44
Cust. #: 21-1
Material: Plaster in Skylight Boxes
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 45
Cust. #: 21-2
Material: Plaster in Skylight Boxes
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 46
Cust. #: 21-3
Material: Plaster in Skylight Boxes
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 47
Cust. #: 22-1
Material: Pink Ceramic Wall Tile
Location:
Appearance: pink,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 47a
Cust. #: 22-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 48
Cust. #: 22-2
Material: Pink Ceramic Wall Tile
Location:
Appearance: pink,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 48a
Cust. #: 22-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Test Method, Polarized Light Microscopy (PLM)

Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1


Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 49 Cust. #: 23-1 Material: Multicolored Ceramic Floor Tile Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 49a Cust. #: 23-1 Material: Mortar Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 50 Cust. #: 23-2 Material: Multicolored Ceramic Floor Tile Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 50a
Cust. #: 23-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 51
Cust. #: 24-1
Material: 6" Square Ceramic Floor Tile
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 51a
Cust. #: 24-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 52
Cust. #: 24-2
Material: 6" Square Ceramic Floor Tile
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 52a
Cust. #: 24-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 53
Cust. #: 25-1
Material: Glue Pods Behind Chalk/Cork Boards
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 54
Cust. #: 25-2
Material: Glue Pods Behind Chalk/Cork Boards
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 55
Cust. #: 26-1
Material: Grey/White Caulk
Location: On Aluminum Door Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 56
Cust. #: 26-2
Material: Grey/White Caulk
Location: On Aluminum Door Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 57 Cust. #: 27-1 Material: Yellow Ceramic Tile Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 57a Cust. #: 27-1 Material: Mortar Location: Appearance: grey,nonfibrous,homogenous Layer: 2 of 4	Asbestos Present: NO No Asbestos Observed	Cellulose - 1% Other - 99%
Lab ID #: 80685 - 57b Cust. #: 27-1 Material: White Ceramic Tile Location: Appearance: white,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 57c
Cust. #: 27-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 4 of 4

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 58
Cust. #: 27-2
Material: Yellow Ceramic Tile
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 1 of 4

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 58a
Cust. #: 27-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 4

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 1%
Other - 99%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 58b
Cust. #: 27-2
Material: White Ceramic Tile
Location:
Appearance: white,nonfibrous,homogenous
Layer: 3 of 4

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 58c
Cust. #: 27-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 4 of 4

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 59
Cust. #: 28-1
Material: Green Cove Base
Location:
Appearance: green,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 59a
Cust. #: 28-1
Material: Adhesive
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 60
Cust. #: 28-2
Material: Green Cove Base
Location:
Appearance: green,nonfibrous,homogenous
Layer: 1 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 60a
Cust. #: 28-2
Material: Adhesive
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 2 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 60b Cust. #: 28-2 Material: Brown Glue Location: Appearance: brown, fibrous, homogenous Layer: 3 of 3	Asbestos Present: YES Chrysotile - 1.50% POINT COUNT RESULT	Other - 98.50%
Lab ID #: 80685 - 61 Cust. #: 29-1 Material: Smooth Plaster Ceilings Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 62 Cust. #: 29-2 Material: Smooth Plaster Ceilings Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 63 Cust. #: 30-1 Material: White/Tan Square Pattern Flooring Location: Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 80685 - 64 Cust. #: 30-2 Material: White/Tan Square Pattern Flooring Location: Appearance: brown, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 80685 - 65 Cust. #: 31-1 Material: 4'x8' White Textured Ceiling Panels Location: Assumed/Not Sampled Appearance: Layer: of	Asbestos Present: NO SAMPLE RECEIVED	

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 66
Cust. #: 32-1
Material: Pipe Insulation
Location:
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%
Amosite - 15%

Other - 75%

Lab ID #: 80685 - 67
Cust. #: 32-2
Material: Pipe Insulation
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 68
Cust. #: 32-3
Material: Pipe Insulation
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 69 Cust. #: 33-1 Material: Pipe Fitting Insulation Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 2% Amosite - 15%	Other - 83%
Lab ID #: 80685 - 70 Cust. #: 33-2 Material: Pipe Fitting Insulation Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 80685 - 71 Cust. #: 33-3 Material: Pipe Fitting Insulation Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 72 Cust. #: 34-1 Material: Exterior Building Caulk on Door Frames Location: Appearance: white, fibrous, homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 10%	Other - 90%
Lab ID #: 80685 - 73 Cust. #: 34-2 Material: Exterior Building Caulk on Door Frames Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	
Lab ID #: 80685 - 74 Cust. #: 34-3 Material: Exterior Building Caulk on Door Frames Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 75 Cust. #: 34-4 Material: Exterior Building Caulk on Door Frames Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED
--	---

Lab ID #: 80685 - 76 Cust. #: 35-1 Material: Exterior Awning Stucco Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
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Lab ID #: 80685 - 77 Cust. #: 35-2 Material: Exterior Awning Stucco Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
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Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 78 Cust. #: 35-3 Material: Exterior Awning Stucco Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 79 Cust. #: 36-1 Material: Exterior Black Foundation Tar Location: Appearance: black,fibrous,homogenous Layer: 1 of 1	Asbestos Present: YES Chrysotile - 20%	Other - 80%
Lab ID #: 80685 - 80 Cust. #: 36-2 Material: Exterior Black Foundation Tar Location: Appearance: Layer: of	Asbestos Present: NOT ANALYZED	

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis

Test Method, Polarized Light Microscopy (PLM)

Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



Report To:

Mr. Mark Breeden
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214 Janes Ave.
Saginaw, MI 48607

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 81
Cust. #: 36-3
Material: Exterior Black Foundation Tar
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 82
Cust. #: 36-4
Material: Exterior Black Foundation Tar
Location:
Appearance:
Layer: of

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 83
Cust. #: 37-1
Material: Glazing
Location: On Ext. Aluminum Window Frames
Appearance: white, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **YES**
Chrysotile - 10%

Other - 90%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 84	Asbestos Present:
Cust. #: 37-2	
Material: Glazing	
Location: On Ext. Aluminum Window Frames	NOT ANALYZED
Appearance:	
Layer: of	

Lab ID #: 80685 - 85	Asbestos Present:
Cust. #: 37-3	
Material: Glazing	
Location: On Ext. Aluminum Window Frames	NOT ANALYZED
Appearance:	
Layer: of	

Lab ID #: 80685 - 86	Asbestos Present:
Cust. #: 37-4	
Material: Glazing	
Location: On Ext. Aluminum Window Frames	NOT ANALYZED
Appearance:	
Layer: of	

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 87 Cust. #: 37-5 Material: Glazing Location: On Ext. Aluminum Window Frames Appearance: Layer: of	Asbestos Present: NOT ANALYZED
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Lab ID #: 80685 - 88 Cust. #: 38-1 Material: Ext. Suspect Vent Pipe Fill Port Covering Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Other - 90%
---	---	--------------------------------

Lab ID #: 80685 - 89 Cust. #: 38-2 Material: Ext. Suspect Vent Pipe Fill Port Covering Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Other - 90%
---	---	--------------------------------

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 90
Cust. #: 39-1
Material: Exterior Brown Building Caulk
Location: On Door Frames
Appearance: brown,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 91
Cust. #: 39-2
Material: Exterior Brown Building Caulk
Location: On Door Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 92
Cust. #: 40-1
Material: Dark Brown Caulk
Location: Exterior Utility/HVAC Vent Caulk
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 93 Cust. #: 40-2 Material: Dark Brown Caulk Location: Exterior Utility/HVAC Vent Caulk Appearance: grey,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 94 Cust. #: 41-1 Material: Ext. Bldg Caulk- Thick Bead Location: On Aluminum Framed Windows Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 95 Cust. #: 41-2 Material: Ext. Bldg Caulk- Thick Bead Location: On Aluminum Framed Windows Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 96
Cust. #: 41-3
Material: Ext. Bldg Caulk- Thick Bead
Location: On Aluminum Framed Windows
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 97
Cust. #: 41-4
Material: Ext. Bldg Caulk- Thick Bead
Location: On Aluminum Framed Windows
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 98
Cust. #: 42-1
Material: Ext. Bldg Caulk Alum. Framed Windows
Location: Metal Panel to Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 99
Cust. #: 42-2
Material: Ext. Bldg Caulk Alum. Framed Windows
Location: Metal Panel to Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 100
Cust. #: 42-3
Material: Ext. Bldg Caulk Alum. Framed Windows
Location: Metal Panel to Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 101
Cust. #: 42-4
Material: Ext. Bldg Caulk Alum. Framed Windows
Location: Metal Panel to Frames
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 102
Cust. #: 43-1
Material: Ext. Bldg Caulk- Thin Bead
Location: Window Frames to Building
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 103
Cust. #: 43-2
Material: Ext. Bldg Caulk- Thin Bead
Location: Window Frames to Building
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 104
Cust. #: 43-3
Material: Ext. Bldg Caulk- Thin Bead
Location: Window Frames to Building
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 105 Cust. #: 43-4 Material: Ext. Bldg Caulk- Thin Bead Location: Window Frames to Building Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 106 Cust. #: 44-1 Material: Roofing/Roof Felt Location: Appearance: black,fibrous,nonhomogenous Layer: 1 of 3	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 30% Other - 50%
Lab ID #: 80685 - 106a Cust. #: 44-1 Material: Roof Cement Location: Appearance: grey,fibrous,homogenous Layer: 2 of 3	Asbestos Present: YES Chrysotile - 20%	Other - 80%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 106b
Cust. #: 44-1
Material: White Caulk
Location:
Appearance: white, nonfibrous, homogenous
Layer: 3 of 3

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 107
Cust. #: 44-2
Material: Roofing/Roof Felt
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 4

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 10%
Fiberglass - 30%
Other - 60%

Lab ID #: 80685 - 107a
Cust. #: 44-2
Material: Roof Cement
Location:
Appearance:
Layer: 2 of 4

Asbestos Present:

NOT ANALYZED

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 107b Cust. #: 44-2 Material: White Caulk Location: Appearance: white,nonfibrous,homogenous Layer: 3 of 4	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 107c Cust. #: 44-2 Material: Membrane Location: Appearance: black,fibrous,homogenous Layer: 4 of 4	Asbestos Present: NO No Asbestos Observed	Synthetic - 20% Other - 80%
Lab ID #: 80685 - 108 Cust. #: 44-3 Material: Roofing/Roof Felt Location: Appearance: black,fibrous,homogenous Layer: 1 of 4	Asbestos Present: NO No Asbestos Observed	Fiberglass - 20% Other - 80%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 108a
Cust. #: 44-3
Material: Mesh
Location:
Appearance: black, fibrous, homogenous
Layer: 2 of 4

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 70%
Other - 30%

Lab ID #: 80685 - 108b
Cust. #: 44-3
Material: Roof Cement
Location:
Appearance:
Layer: 3 of 4

Asbestos Present:

NOT ANALYZED

Lab ID #: 80685 - 108c
Cust. #: 44-3
Material: Brown Caulk
Location:
Appearance: brown, nonfibrous, homogenous
Layer: 4 of 4

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80685 - 109 Cust. #: 45-1 Material: Concrete Pad Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 110 Cust. #: 45-2 Material: Concrete Pad Location: Appearance: grey,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80685 - 111 Cust. #: 46-1 Material: Carpet Glue Location: Appearance: yellow,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 112
Cust. #: 46-2
Material: Carpet Glue
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 113
Cust. #: 16-1
Material: Glazed Pink Cinder Block
Location:
Appearance: pink,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 113a
Cust. #: 16-1
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #1



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80685
Date Collected: 10/24/18
Date Received: 10/30/18
Date Analyzed: 11/06/18
Date Reported: 11/06/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80685 - 114
Cust. #: 16-2
Material: Glazed Pink Cinder Block
Location:
Appearance: pink,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 114a
Cust. #: 16-2
Material: Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80685 - 115
Cust. #: 29-3
Material: Smooth Plaster Ceilings
Location:
Appearance: white,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the US Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.





Customer Name: AKT Peerless
 Address: 214 Janes Avenue
 City, St., Zip: Saginaw, MI 48607
 Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 24, 2018
 Project: 3001 Jefferson, Muskegon Heights, MI
 Project #: 13789s-2-194 Building #1
 Contact Person: Mark Breeden
 Email: breedenm@aktpeerless.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Page 1 of 4

Turn Around Times:

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Bulk X

Wipe _____ PCM _____

Lead:

Paint _____

Wipe _____

***Terms and conditions on the other side.

Lab ID	Customer ID #	Material/Location	Results
1	1-1	Textured Plaster Ceiling	
2	1-2	Textured Plaster Ceiling	
3	1-3	Textured Plaster Ceiling	
4	1-4	Textured Plaster Ceiling	
5	1-5	Textured Plaster Ceiling	
6	1-6	Textured Plaster Ceiling	
7	1-7	Textured Plaster Ceiling	
8	2-1	Interior Glazed Dark Grey Cinder Block and Associated Mortar	
9	2-2	Interior Glazed Dark Grey Cinder Block and Associated Mortar	
10	3-1	Tan Square Pattern Flooring	
11	3-2	Tan Square Pattern Flooring	
12	4-1	Interior and Exterior Wall Brick and Associated Mortar	
13	4-2	Interior and Exterior Wall Brick and Associated Mortar	
14	5-1	Dark Brown Cove Base and Associated Adhesive	
15	5-2	Dark Brown Cove Base and Associated Adhesive	
16	6-1	Light Grey Cove Base and Associated Adhesive	
17	6-2	Light Grey Cove Base and Associated Adhesive	
18	7-1	9" Grey with White and Red Streaks Floor Tile	
19	7-2	9" Grey with White and Red Streaks Floor Tile	
20	8-1	Interior Cinder Block and Associated Mortar	
21	8-2	Interior Cinder Block and Associated Mortar	
22	9-1	Interior Glazed Tan Cinder Block and Associated Mortar	
23	9-2	Interior Glazed Tan Cinder Block and Associated Mortar	
24	10-1	9" Tan with Black Streaks Floor Tile	
25	10-2	9" Tan with Black Streaks Floor Tile	
26	11-1	9" Black Floor Tile	
27	11-2	9" Black Floor Tile	
28	12-1	9" Green with White Streaks Floor Tile	
29	12-2	9" Green with White Streaks Floor Tile	
30	13-1	9" Light Green Floor tile	
31	13-2	9" Light Green Floor tile	
32	14-1	12" Grey and White Mottled Floor Tile	
33	14-2	12" Grey and White Mottled Floor Tile	
34	15-1	9" Light Green with Black and White Streaks Floor Tile	
35	15-2	9" Light Green with Black and White Streaks Floor Tile	

Relinquished By: [Signature]

Date: October 26, 2018 901am

Revision Date: June/2011

Received By: [Signature]

Date: 10/30/18

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80685

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.

Web Site: <http://apexresearch-inc.com>. Email: Robert.Letarte@apexresearchlab.com

Customer Name: AKT Peerless
 Address: 214 Janes Avenue
 City, St., Zip: Saginaw, MI 48607
 Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 24, 2018
 Project: 3001 Jefferson, Muskegon Heights, MI
 Project #: 13789s-2-194 Building #1
 Contact Person: Mark Breedon
 Email: breedonm@aktpeerless.com

Lab Use Only
 Log-In: _____
 Report: _____
 Fax: _____
 Verbal: _____
 Email: _____

Page 2 of 4

***Terms and conditions on the other side.

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Bulk X

Wipe _____ PCM _____

Lead:

Paint _____

Wipe _____

Lab ID	Customer ID #	Material/Location	Results
36	17-1	Glazed Yellow with Black Spots Cinder Block and Associated Mortar	
37	17-2	Glazed Yellow with Black Spots Cinder Block and Associated Mortar	
38	18-1	12" White with Red and Green Streaks Floor Tile	
39	18-2	12" White with Red and Green Streaks Floor Tile	
40	19-1	9" Mottled Brown Floor Tile	
41	19-2	9" Mottled Brown Floor Tile	
42	20-1	9" Light Brown Mottled Floor Tile	
43	20-2	9" Light Brown Mottled Floor Tile	
44	21-1	Plaster in Skylight Boxes	
45	21-2	Plaster in Skylight Boxes	
46	21-3	Plaster in Skylight Boxes	
47	22-1	Pink Ceramic Wall Tile and Associated Adhesive	
48	22-2	Pink Ceramic Wall Tile and Associated Adhesive	
49	23-1	Multi-Colored Ceramic Floor Tile and Associated Adhesive	
50	23-2	Multi-Colored Ceramic Floor Tile and Associated Adhesive	
51	24-1	6" Square Ceramic Floor Tile and Associated Adhesive	
52	24-2	6" Square Ceramic Floor Tile and Associated Adhesive	
53	25-1	Glue Pods Behind Chalk and Cork Boards	
54	25-2	Glue Pods Behind Chalk and Cork Boards	
55	26-1	Grey and White Caulk on Aluminum Door Frames	
56	26-2	Grey and White Caulk on Aluminum Door Frames	
57	27-1	Yellow and White Ceramic Floor tile and Associated Mortar	
58	27-2	Yellow and White Ceramic Floor tile and Associated Mortar	
59	28-1	Green Cove Base and Associated Adhesive	
60	28-2	Green Cove Base and Associated Adhesive	
61	29-1	Smooth Plaster Ceilings	
62	29-2	Smooth Plaster Ceilings	
63	30-1	White and Tan Square Pattern Flooring	
64	30-2	White and Tan Square Pattern Flooring	
65	31-1	4'x8' White Textured Ceiling Panels	Assumed / Not Sampled
66	32-1	Pipe Insulation	
67	32-2	Pipe Insulation	
68	32-3	Pipe Insulation	
69	33-1	Pipe Fitting Insulation	
70	33-2	Pipe Fitting Insulation	

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Date: October 26, 2018 918am

Revision Date: June/2011

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Date: _____

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APEX RESEARCH

80685

APEX Research, Inc.

11054 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.
 Web Site: <http://apexresearch-inc.com>. Email: Robert.Letarte@apexresearchlab.com

Customer Name: AKT Peerless

Address: 214 Janes Avenue

City, St., Zip: Saginaw, MI 48607

Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 24, 2018

Project: 3001 Jefferson, Muskegon Heights, MI

Project #: 13789s-2-194 Building #1

Contact Person: Mark Breedon

Email: breedonm@aktpeerless.com

Lab Use Only

Log-In: _____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Page 3 of 4

Turn Around Times:

***Terms and conditions on the other side.

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Bulk X

Wipe _____ PCM _____

Lead:

Paint _____

Wipe _____

Lab ID	Customer ID #	Material/Location	Results
71	33-3	Pipe Fitting Insulation	
72	34-1	Exterior Building Caulk on Door Frames	
73	34-2	Exterior Building Caulk on Door Frames	
74	34-3	Exterior Building Caulk on Door Frames	
75	34-4	Exterior Building Caulk on Door Frames	
76	35-1	Exterior Awning Stucco	
77	35-2	Exterior Awning Stucco	
78	35-3	Exterior Awning Stucco	
79	36-1	Exterior Black Foundation Tar	
80	36-2	Exterior Black Foundation Tar	
81	36-3	Exterior Black Foundation Tar	
82	36-4	Exterior Black Foundation Tar	
83	37-1	Glazing on Exterior Aluminum Window Frames	
84	37-2	Glazing on Exterior Aluminum Window Frames	
85	37-3	Glazing on Exterior Aluminum Window Frames	
86	37-4	Glazing on Exterior Aluminum Window Frames	
87	37-5	Glazing on Exterior Aluminum Window Frames	
88	38-1	Exterior Suspect Vent Pipe Fill Port Coverings	
89	38-2	Exterior Suspect Vent Pipe Fill Port Coverings	
90	39-1	Exterior Brown Building Caulk on Door Frames	
91	39-2	Exterior Brown Building Caulk on Door Frames	
92	40-1	Dark Brown Exterior Utility / HVAC Vent Caulk	
93	40-2	Dark Brown Exterior Utility / HVAC Vent Caulk	
94	41-1	Exterior Building Caulk on Aluminum Framed Windows - Thick Bead	
95	41-2	Exterior Building Caulk on Aluminum Framed Windows - Thick Bead	
96	41-3	Exterior Building Caulk on Aluminum Framed Windows - Thick Bead	
97	41-4	Exterior Building Caulk on Aluminum Framed Windows - Thick Bead	
98	42-1	Exterior Building Caulk Aluminum Framed Windows - Metal Panel to Frames	
99	42-2	Exterior Building Caulk Aluminum Framed Windows - Metal Panel to Frames	
100	42-3	Exterior Building Caulk Aluminum Framed Windows - Metal Panel to Frames	
101	42-4	Exterior Building Caulk Aluminum Framed Windows - Metal Panel to Frames	
102	43-1	Exterior Building Caulk - Window Frames to Building - Thin Bead	
103	43-2	Exterior Building Caulk - Window Frames to Building - Thin Bead	
104	43-3	Exterior Building Caulk - Window Frames to Building - Thin Bead	
105	43-4	Exterior Building Caulk - Window Frames to Building - Thin Bead	

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Date: October 26, 2018 940am

Revision Date: June/2011

Received By: _____

Date: _____

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OCT 30 2018

Customer Name: AKT Peerless
Address: 214 Janes Avenue
City, St., Zip: Saginaw, MI 48607
Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 24, 2018
Project: 3001 Jefferson, Muskegon Heights, MI
Project #: 13789s-2-194 Building #1
Contact Person: Mark Breeden
Email: breedenm@aktpeerless.com

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

*****Terms and conditions on the other side.**

Turn Around Times:

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Lead:

Bulk **X**

Paint

Wipe	PCM
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
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97	1
98	1
99	1
100	1

Wipe

[illegible]

Relinquished By: [Signature]
Date: October 26, 2018 950am
Revision Date: June/2011

Received By: _____
Date: OCT 30 2018



Customer Name: AKT Peerless
Address: 214 Janes Avenue
City, St., Zip: Saginaw, MI 48607
Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 24, 2018
Project: 3001 Jefferson, Muskegon Heights, MI
Project #: 13789s-2-194 Building #1
Contact Person: Mark Breeden
Email: breedenm@aktpeerless.com

Lab Use Only
Log-In: _____
Report: _____
Fax: _____
Verbal: _____
Email: _____

***Terms and conditions on the other side.

Turn Around Times:

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Bulk **X**

Wipe PCM

Lead:

Paint

Wipe

[illegible]

Relinquished By: [Signature]
Date: October 26, 2018 940am
Revision Date: June/2011

Received By: [Signature]
Date: _____

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OCT 30 2018

APEX RESEARCH

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 01
Cust. #: 1-1
Material: 2'x4' White w/ Pinholes/Fissures CT
Location:
Appearance: grey,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Mineral Wool - 35%
Other - 30%

Lab ID #: 80643 - 02
Cust. #: 1-2
Material: 2'x4' White w/ Pinholes/Fissures CT
Location:
Appearance: grey,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Mineral Wool - 35%
Other - 30%

Lab ID #: 80643 - 03
Cust. #: 1-3
Material: 2'x4' White w/ Pinholes/Fissures CT
Location:
Appearance: grey,fibrous,nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 35%
Mineral Wool - 35%
Other - 30%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 04
Cust. #: 2-1
Material: 12" White w/ Pinholes Ceiling Tile
Location:
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 80643 - 05
Cust. #: 2-2
Material: 12" White w/ Pinholes Ceiling Tile
Location:
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

Lab ID #: 80643 - 06
Cust. #: 2-3
Material: 12" White w/ Pinholes Ceiling Tile
Location:
Appearance: brown, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 90%
Other - 10%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80643 - 07 Cust. #: 3-1 Material: White Square Pattern Flooring Location: Appearance: grey,fibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 30% Other - 70%
Lab ID #: 80643 - 08 Cust. #: 3-2 Material: White Square Pattern Flooring Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 10% Fiberglass - 10% Other - 80%
Lab ID #: 80643 - 09 Cust. #: 4-1 Material: Drywall Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Other - 80%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 10
Cust. #: 4-2
Material: Drywall
Location:
Appearance: grey,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Other - 80%

Lab ID #: 80643 - 11
Cust. #: 4-3
Material: Drywall
Location:
Appearance: grey,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 20%
Other - 80%

Lab ID #: 80643 - 12
Cust. #: 5-1
Material: Yellow Crackle Pattern Flooring
Location:
Appearance: beige,fibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Other - 70%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 13
Cust. #: 5-2
Material: Yellow Crackle Pattern Flooring
Location:
Appearance: beige, fibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Cellulose - 30%
Other - 70%

Lab ID #: 80643 - 14
Cust. #: 6-1
Material: Brown Cove Base
Location:
Appearance: brown, nonfibrous, homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80643 - 14a
Cust. #: 6-1
Material: Adhesive
Location:
Appearance: yellow, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

Test Method EPA 600/R-93/116 was used to analyze the above samples. Matrix interference and/or resolution limits may yield false/negative results in certain circumstances. Suspect floor tiles containing <1% should be tested with SEM or TEM. This certificate of analysis relates only to the samples tested and to insure the integrity of the results, may only be reproduced in full. This certificate must not be used by the customer to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government. APEX Research Inc. is not responsible for the accuracy of the results for layered samples or samples comprising multiple materials. Liability limited to cost of analysis.



Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80643 - 15 Cust. #: 6-2 Material: Brown Cove Base Location: Appearance: brown,nonfibrous,homogenous Layer: 1 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80643 - 15a Cust. #: 6-2 Material: Adhesive Location: Appearance: yellow,nonfibrous,homogenous Layer: 2 of 2	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80643 - 16 Cust. #: 7-1 Material: Exterior Red/Brown Building Caulk Location: Appearance: clear,nonfibrous,nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

A handwritten signature in black ink, appearing to read "Robert T. Letarte Jr.".

Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 17
Cust. #: 7-2
Material: Exterior Red/Brown Building Caulk
Location:
Appearance: clear,nonfibrous,nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80643 - 18
Cust. #: 8-1
Material: Carpet Adhesive
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80643 - 19
Cust. #: 8-2
Material: Carpet Adhesive
Location:
Appearance: yellow,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 20
Cust. #: 9-1
Material: Roofing Material
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 20%
Other - 80%

Lab ID #: 80643 - 21
Cust. #: 9-2
Material: Roofing Material
Location:
Appearance: black, fibrous, nonhomogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Fiberglass - 20%
Other - 80%

Lab ID #: 80643 - 22
Cust. #: 10-1
Material: Foundation Cinder Block/Mortar
Location:
Appearance: grey, nonfibrous, homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 23
Cust. #: 10-2
Material: Foundation Cinder Block/Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80643 - 24
Cust. #: 11-1
Material: Exterior Brick/Mortar
Location:
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80643 - 25
Cust. #: 11-2
Material: Exterior Brick/Mortar
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #2



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80643
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80643 - 25a
Cust. #: 11-2
Material: Mortar
Location:
Appearance: beige, nonfibrous, homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

For Layered Samples, each component will be analyzed and reported separately.

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APEX Research, Inc.

1 Hi Tech Drive, Whitmore Lake, MI 48189. Phone: (734) 449 - 9990, Fax (734) 449 - 9991.

Web Site: <http://apexresearch-inc.com>. Email: Robert.Letarte@apexresearchlab.com



Customer Name: AKT Peerless
Address: 214 Janes Avenue
City, St., Zip: Saginaw, MI 48607
Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 23, 2018
Project: 3001 Jefferson, Muskegon Heights, MI
Project #: 13789s-2-194 Building #2
Contact Person: Mark Breeden
Email: breedenm@aktpeerless.com

****Terms and conditions on the other side.*

Lab Use Only

Log-In:_____

Report: _____

Fax: _____

Verbal: _____

Email: _____

Turn Around Times:

5 Days

TTP **YES**

(Test Till Positive)

Asbestos:

Bulk **X**

Wipe _____ PCM _____

Lead:

Paint _____

Wipe _____

[illegible]Relinquished By:

Date: October 25, 2018 445pm

Revision Date: June/2011

Received By:

Date: 10/29/18 0936

RECEIVED

~~OCT 29 2018~~

APEX RESEARCH

Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #3



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80641 - 01 Cust. #: 1-1 Material: White Textured Paint Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Other - 70%
Lab ID #: 80641 - 02 Cust. #: 1-2 Material: White Textured Paint Location: Appearance: grey,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Other - 70%
Lab ID #: 80641 - 03 Cust. #: 1-3 Material: White Textured Paint Location: Appearance: brown,fibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 20% Fiberglass - 10% Other - 70%

For Layered Samples, each component will be analyzed and reported separately.

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Robert T. Letarte Jr., Laboratory Director

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #3



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80641 - 04 Cust. #: 2-1 Material: Drywall/Joint Compound Location: Appearance: white, fibrous, nonhomogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Cellulose - 2% Other - 98%
Lab ID #: 80641 - 05 Cust. #: 2-2 Material: Drywall/Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80641 - 06 Cust. #: 2-3 Material: Drywall/Joint Compound Location: Appearance: white, nonfibrous, homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #3



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information	Asbestos Type/Percent	Non-Asbestos Material
Lab ID #: 80641 - 07 Cust. #: 3-1 Material: Drywall Adhesive Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80641 - 08 Cust. #: 3-2 Material: Drywall Adhesive Location: Appearance: beige,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%
Lab ID #: 80641 - 09 Cust. #: 4-1 Material: 12" White/Tan Mottled Floor Tile Location: Appearance: white,nonfibrous,homogenous Layer: 1 of 1	Asbestos Present: NO No Asbestos Observed	Other - 100%

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Certificate of Laboratory Analysis
Test Method, Polarized Light Microscopy (PLM)
Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #3



Report To:

Mr. Mark Breeden
AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80641 - 10
Cust. #: 4-2
Material: 12" White/Tan Mottled Floor Tile
Location:
Appearance: white,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80641 - 11
Cust. #: 5-1
Material: Exterior Cementitious Panels
Location:
Appearance: grey,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80641 - 12
Cust. #: 5-2
Material: Exterior Cementitious Panels
Location:
Appearance: beige,nonfibrous,homogenous
Layer: 1 of 1

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

For Layered Samples, each component will be analyzed and reported separately.

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Project : 3001 Jefferson, Muskegon Heights, MI
Project # :13789s-2-194 Building #3



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AKT Peerless
214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80641 - 13
Cust. #: 6-1
Material: Roofing Material
Location:
Appearance: black,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80641 - 13a
Cust. #: 6-1
Material: Roofing Material
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #: 80641 - 14
Cust. #: 6-2
Material: Roofing Material
Location:
Appearance: black,nonfibrous,homogenous
Layer: 1 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

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Project # :13789s-2-194 Building #3



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214 Janes Ave.
Saginaw, MI 48607

ARI Report # 18-80641
Date Collected: 10/23/18
Date Received: 10/29/18
Date Analyzed: 11/02/18
Date Reported: 11/05/18

Sample Information

Asbestos Type/Percent

Non-Asbestos Material

Lab ID #: 80641 - 14a
Cust. #: 6-2
Material: Roofing Material
Location:
Appearance: brown,nonfibrous,homogenous
Layer: 2 of 2

Asbestos Present: **NO**
No Asbestos Observed

Other - 100%

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

Lab ID #:
Cust. #:
Material:
Location:
Appearance:
Layer: of

Asbestos Present:

For Layered Samples, each component will be analyzed and reported separately.

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APEX Research, Inc.

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Web Site: <http://apexresearch-inc.com>. Email: Robert.Letarte@apexresearchlab.com



Customer Name: AKT Peerless

Address: 214 Janes Avenue

City, St., Zip: Saginaw, MI 48607

Phone: 989-754-9896 Fax: 989-754-3804

Date of Survey: October 23, 2018

Project: 3001 Jefferson, Muskegon Heights, MI

Project #: 13789s-2-194 Building #3

Contact Person: Mark Breeden

Email: breedenm@aktpeerless.com

***Terms and conditions on the other side.

Lab Use Only

Log-In: _____

Report: _____

Fax:

Verbal:

Email:

Turn Around Times:

5 Days

TTP YES

(Test Till Positive)

Asbestos:

Bulk	X
------	---

Wipe	PCM
1	1
2	1
3	1
4	1
5	1
6	1
7	1
8	1
9	1
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96	1
97	1
98	1
99	1
100	1

Lead:

Paint

Wipe

[illegible]

Relinquished By:

Date: October 225 2018 445pm

Received By:

Date: 10/29/18 0936

APEX RESEARCH

ATTACHMENT D

PHASE I REPORT

Conducted by AKT Peerless
Date: 11/6/2018



PHASE I ENVIRONMENTAL SITE ASSESSMENT

3001 Jefferson Street, Muskegon Heights, Michigan

PREPARED FOR Michigan Land Bank Fast Track Authority
300 North Washington Square
Lansing, Michigan 48913

PROJECT # 13789s-1-17

DATE November 6, 2018

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PHASE I ENVIRONMENTAL SITE ASSESSMENT

3001 Jefferson Street, Muskegon Heights, Michigan

AKT Peerless Project No. 13789s-1-17

Executive Summary

AKT Peerless Environmental Services (AKT Peerless) conducted a Phase I Environmental Site Assessment (ESA) for the subject property as described below in accordance with United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 CFR Part 312] and ASTM Standard Practice E 1527-13 (ASTM Practice E 1527). This Phase I ESA was performed for Michigan Land Bank Fast Track Authority (Client) in connection with an evaluation of the subject property.

Subject Property Description

Address	3001 Jefferson Street, Muskegon Heights, Michigan
Land Area	2.36Acres
Parcel ID Number(s)	26-770-011-0001-00
Number of Building(s)	Three
Date(s) of Construction	Subject Building 1: Between 1955-1962 Subject Building 2: Between 1981-1991 Subject Building 3: Between 1997-2005
Building Square Footage	Subject Building 1: 16,000 Subject Building 2: 1,200 Subject Building 3: 1,500
Current Use	None
Current Occupants	Unoccupied
Past Use	School, residential, commercial
Adjoining Property Uses	North: Residential Northeast: Residential East: Residential Southeast: Residential South: Residential Southwest: Residential West: Residential Northwest: Residential
Inferred Groundwater Flow Direction	South

Address	3001 Jefferson Street, Muskegon Heights, Michigan
Approximate Groundwater Depth	Unknown

OPINIONS AND CONCLUSIONS

Recognized Environmental Conditions (RECs)

This assessment has revealed no evidence of known RECs in connection with the subject property, except for the following:

REC 1 - During AKT Peerless' site reconnaissance, a suspected fill port and vent pipe was observed on the northern portion exterior of Subject Building 1. The potential exists these items are associated with an UST. AKT Peerless' research did not identify any registered USTs associated with the subject property. The potential exists that hazardous substances and/or petroleum products from abandoned USTs may have impacted the subsurface of the subject property. In AKT Peerless' opinion, the potential presence of USTs of unknown contents and unknown condition presents a REC.

Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of the REC. Further, AKT Peerless recommends a ground-penetrating radar (GPR) survey to identify any anomalies consistent with an abandoned UST.

Controlled Recognized Environmental Conditions (CRECs)

This assessment has revealed no evidence of known CRECs in connection with the subject property.

Historical Recognized Environmental Conditions (HRECs)

This assessment has revealed no evidence of known HRECs in connection with the subject property.

The Executive Summary above is an overview of the opinions and conclusions of this Phase I ESA and shall not be considered apart from the entire report, which contains the rationale and qualifications used by AKT Peerless in making the opinions and conclusions presented herein. Furthermore, non-ASTM scope considerations, if any, are reported in Section 6.4 and Other Potential Environmental Concerns (PECs), if any, are reported in Section 7.5. These conditions are not included in this Executive Summary.

1.0 Introduction

Michigan Land Bank Fast Track Authority (Client) retained AKT Peerless Environmental (AKT Peerless) to conduct a Phase I Environmental Site Assessment (ESA) of 3001 Jefferson Street in Muskegon Heights, Muskegon County, Michigan (subject property). This Phase I ESA was conducted in accordance with: (1) the United States Environmental Protection Agency (USEPA) Standards and Practices for All Appropriate Inquiries [(AAI), 40 CFR Part 312] and (2) guidelines established by the American Society for Testing and Materials (ASTM) in the *Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process/Designation E 1527-13* (ASTM Practice E 1527).

For the purpose of this Phase I ESA, the Client is the party that retained AKT Peerless to complete this Phase I ESA. AKT Peerless has not made an independent determination if its Client is also a *User* that intends to rely on this Phase I ESA to qualify for Landowner Liability Protection (LLP) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980. In accordance with ASTM Practice E 1527, a *User* is the party seeking to use ASTM Practice E 1527 to complete an environmental site assessment of the subject 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. Furthermore, a *User* seeking to qualify for an LLP to CERCLA liability has specific obligations for completing a successful application of this practice. AKT Peerless' scope of work does not include an evaluation or completion of these specific user obligations under ASTM Practice E 1527, unless otherwise noted.

1.1 Purpose

The purpose of this Phase I ESA was to evaluate the current and historical conditions of the subject property in an effort to identify *recognized environmental conditions* (RECs)¹, *historical recognized environmental conditions* (HRECs)², *controlled recognized environmental conditions* (CRECs)³, and *de minimis conditions*⁴ in connection with the subject property. Moreover, this practice may permit certain users of this Phase I ESA to satisfy environmental due diligence requirements to qualify for the bona fide prospective purchaser, contiguous landowner, or innocent landowner limitations under CERCLA, the Superfund Amendments and Reauthorization Act (SARA) of 1986, and the Small Business Liability and Brownfield Revitalization Act (Brownfield Amendments) of 2002. This Phase I ESA is intended to reduce, but not eliminate, uncertainty regarding the potential for environmental conditions in connection with the subject property.

¹ ASTM Standard Practice E 1527-13 defines the term REC as the presence or likely presence of any hazardous substance or petroleum product 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.

² ASTM Standard Practice E 1527-13 defines the term HREC as a past release of any hazardous substance 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 residential use criteria established by a regulatory authority, without subjecting the property to any required controls.

³ ASTM Standard Practice E 1527-13 defines the term CREC as a REC resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority, with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls.

⁴ ASTM Standard Practice E 1527-13 defines the term de minimis condition as a condition that generally does not present a threat to human health or the environment and that generally would not be subject to an enforcement action if brought to the attention of appropriate government agencies.

1.2 Scope of Services

AKT Peerless' scope-of-services is based on its proposal PS-23358, dated October 18, 2018, and the terms and conditions of that agreement. This Phase I ESA included the following:

- An inquiry of environmental conditions by an Environmental Professional.
- A review of specialized knowledge reported by the Client.
- A review of relevant public and historical records, including those maintained by federal, state, tribal, and local government agencies.
- Interviews with relevant regulatory officials and personnel associated or knowledgeable with the subject property, including as appropriate past and present owners, or neighbors if the subject property is abandoned.
- A reconnaissance of the subject property. The adjoining properties were observed from the subject property and from readily accessible public rights-of-way.

1.3 Limiting Conditions and Exceptions

A list of general limitations and exceptions typically encountered when completing Phase I ESAs is provided in Appendix A. In certain instances, limiting conditions, data failures, or data gaps, as defined by ASTM, may prevent adherence to all ASTM Practice E 1527 requirements. In such cases, the limiting conditions, data gaps, or data failures are discussed in the appropriate sections of this report.

Should additional information become available to the Client that differs significantly from our understanding of conditions presented in this report, AKT Peerless requests that such information be forwarded immediately to our attention, so that we may reassess the conclusions provided herein and amend this project's scope of services as necessary and appropriate.

1.4 Special Terms and Conditions

To the best of AKT Peerless' knowledge, no special terms or conditions, or client-imposed constraints, apply to the preparation of this Phase I ESA, except for the following:

- At the request of the Client, AKT Peerless did not review Fire Insurance Maps for the area of the subject property.
- At the request of the Client, AKT Peerless did not request documentation pertaining to the subject property from the Michigan Department of Environmental Quality (MDEQ), Licensing and Regulatory Affairs (LARA), Muskegon County Health Department, Muskegon Heights Fire Department, or Muskegon Heights Building Department.

1.5 Reliance

AKT Peerless performed this Phase I ESA for the benefit of its Client, Michigan Land Bank Fast Track Authority. AKT Peerless acknowledges that this party may rely on the contents and conclusions presented in this report. Unless stated otherwise in writing, AKT Peerless makes no other warranty, representation, or extension of reliance upon the findings of this report to any other entity or third party.

2.0 User and/or Client Provided Information

In order to qualify for one of the LLPs offered by the Small Business Liability Relief and Brownfields Revitalization Act of 2002 (the “Brownfields Amendments”), a *User* must conduct certain inquiries as described in 40 CFR 312. If the Client intends to use ASTM Practice E 1527 to qualify for a LLP to CERCLA liability, then AAI requires that certain tasks be performed by - or on behalf of - that party. As appropriate, these inquiries must also be conducted by EPA Brownfield Assessment and Characterization grantees.

The following subsections summarize the information provided by the Michigan Land Bank Fast Track Authority.

2.1 Environmental Liens or Activity and Use Limitations

ASTM Practice E 1527 Section 6.2 and AAI (40 CFR 312.20, 25, and 26) require that Users search recorded title and judicial records for registered Environmental Liens or/and Activity and Use Limitations (AULs). The results of the User’s search should be communicated to the Environmental Professional. This search is in addition to the review of environmental liens and AULs conducted by the Environmental Professional (refer to Section 4.3.2 of this Phase I ESA).

The Client did not report any: (1) environmental cleanup liens against the subject property that are filed or recorded under federal, tribal, state, or local law; (2) AULs, such as engineering controls, land use restrictions or institutional controls, that are in place at the subject property and/or have been filed or recorded in a registry under federal, tribal, state, or local law; or (3) recorded land title or judicial records.

2.2 Specialized Knowledge or Experience of the User

ASTM Practice E 1527 Section 6.3 and AAI (40 CFR 312.28) require that the User take into account their specialized knowledge to identify conditions indicative of releases or threatened releases associated with the subject property, and suggests this information be communicated to the Environmental Professional before the site reconnaissance.

The Client did not report any specialized knowledge or experience regarding the environmental condition of the subject property.

2.3 Actual Knowledge of the User

ASTM Practice E 1527 Section 6.4 suggests that the User communicate actual knowledge of any environmental lien or AULs associated with the subject property to the Environmental Professional.

The Client did not report any actual knowledge of environmental liens or AULs associated with the subject property.

2.4 Value Reduction Due to Contamination

For transactions involving the purchase of commercial real estate, ASTM Practice E 1527 Section 6.5 and AAI (40 CFR 312.29) require the User consider the relationship of the purchase price to the fair market value of the subject property as an indicator of potential contamination and make a written record of that explanation.

The Client did not report knowledge of, or reason to anticipate, a reduction in the value of the subject property for environmental issues.

2.5 Commonly Known or Reasonably Ascertainable Information

ASTM Practice E 1527 Section 6.6 and AAI (40 CFR 312.30) require the User to take into account commonly known or reasonably ascertainable information within the local community about the subject property.

The Client did not report any such commonly known or reasonably ascertainable information.

2.6 Presence or Likely Presence of Contamination

ASTM Practice E 1527 Section 6.7 and AAI (40 CFR 312.31) require the User to consider the degree of obviousness of the presence or likely presence of contamination at the subject property, and the ability to detect the contamination by appropriate investigation.

The Client did not report on the degree of obviousness of the presence or likely presence of contamination at the subject property or the ability to detect the contamination by appropriate investigations.

2.7 Reason for Performing this Phase I ESA

ASTM Practice E 1527 requires that the User provide the Environmental Professional with the reason for performing the Phase I ESA.

The Client reported that this Phase I ESA was conducted as part of environmental due diligence related to the evaluation of the subject property.

3.0 Subject Property Description

3.1 Location and Legal Description

The subject property is located in the northeast ¼ of the southeast ¼ Section 6 in Muskegon Heights (T.9N. /R.16E.), Muskegon County, Michigan. The subject property south of West Summit Avenue, west of Jefferson Street, north of Rotterdam Street, and east of Glendale Street. See the following table for additional subject property details:

Subject Property Identifiers

Address	Tax Identification Number	Owner of Record	Approximate Acreage
3001 Jefferson Street	26-770-011-0001-00	Michigan Land Bank Fast Track	2.36

Refer to Figure 1, Topographic Location Map; Figure 2, Subject Property Map; and Figure 3, Subject Property Location Map. The legal description of the subject property is presented in Appendix B.

3.2 Subject Property and Vicinity Characteristics

The subject property is currently zoned Commercial (C-2) and is located in an area of Muskegon Heights that is characterized by residential properties, surface roadways, municipal sanitary sewer and water, as well as electrical and gas utilities.

3.3 Description of Structures and Other Improvements

General information regarding the on-site buildings is presented in the following tables:

Subject Building 1: 3001 Jefferson Street (Main School Building)

General Construction	One-story, flat roof, concrete and steel frame, metal and brick exterior, concrete slab on grade foundation, steam tunnels
Predominant Interior Finish	Concrete, acoustical ceiling tiles, paint, vinyl floors, drywall, wood, metal, glass, concrete, carpet
Square Footage (Approximate floor plan)	16,000
Construction and Other Improvement Dates	Constructed between 1955-1962
Interior Areas	Classrooms, gymnasium, bathrooms, hallways, offices, storage and utility rooms

Subject Building 2: 3001 Jefferson Street (Secondary School Building)

General Construction	One-story, flat roof, steel frame, brick and wood exterior, concrete slab on grade foundation, crawlspace
Predominant Interior Finish	Wood and vinyl floors, carpet, drywall, acoustical ceiling tiles, paint, wood, metal, glass, concrete
Square Footage (Approximate floor plan)	1,200
Construction and Other Improvement Dates	Constructed between 1981-1991
Interior Areas	Classroom, bathrooms, utility closets

Subject Building 3: 3001 Jefferson Street (Modular Classroom)

General Construction	One-story, flat roof, steel frame, metal exterior, concrete slab on grade foundation, crawlspace
Predominant Interior Finish	Wood floors, acoustical ceiling tiles, drywall, carpet, paint, wood, metal, glass
Square Footage (Approximate floor plan)	1,500
Construction and Other Improvement Dates	Constructed between 1997-2005
Interior Areas	Classroom, bathroom

The exterior of the subject property consists of asphalt parking areas and grassy lawns areas.

Photographs taken during AKT Peerless' subject property reconnaissance are provided in Appendix C.

3.4 Current Use of the Subject Property

The subject property is currently unoccupied, most recently used as an elementary school.

3.5 Utilities and Municipal Services

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

Subject Property Utility Data

Utility / Service	Type	Utility Company or Municipality	Comments/Historical Services
Heat	Natural Gas	DTE Energy	Natural gas is available to the subject property; however, is not connected due to structural vacancy. According to DTE Energy, natural gas was connected to the subject property in 1989.
Potable water	Municipal	City of Muskegon Heights	Municipal water is available to the subject property; however, is not connected due to structural vacancy.
Electricity	Electric lines/ transformer	Consumers Energy	Electricity is available to the subject property; however, is not connected due to structural vacancy.
Sewage disposal	Municipal	City of Muskegon Heights	Municipal sanitary sewer is available to the subject property; however, is not connected due to structural vacancy.
Storm water	County	Muskegon County	Storm water utilities are available to the subject property.

The possibility exists that a well and/or septic system was used by previous occupants of the subject property, prior to the connection and/or availability of municipal water and sanitary sewer.

The possibility exists that alternative heating fuels (i.e. steam, propane, wood, electric, coal, and/or fuel oil) were used by previous occupants of the subject property prior to the connection and/or availability of natural gas.

3.6 Current Uses of the Adjoining Properties

The following table describes the current uses and/or occupants of the adjoining properties, as identified during this Phase I ESA:

Adjoining Property Data

Direction	Address	Current Use / Occupant
Northwest	Not determined	Residential
North	Not determined	Residential
Northeast	Not determined	Residential
East	Not determined	Residential
Southeast	Not determined	Residential
South	Not determined	Residential
Southwest	Not determined	Residential
West	Not determined	Residential

4.0 Records Review

The objective of the records review is to evaluate reasonably ascertainable databases, historical records, and physical setting records to help identify RECs at the subject property and, to the extent identifiable, at surrounding properties.

4.1 Physical Setting Sources

AKT Peerless reviewed various available physical setting sources about the geologic, hydrogeologic, hydrologic, and topographic characteristics that may affect potential contaminant migration to the subject property, or within or from the subject property. The results of AKT Peerless' review are presented in the following table:

Physical Setting Data

Physical Setting Information		Data Sources
General Topography and Hydrogeology		
Subject Property Elevation	629 feet above the National Geodetic Vertical Datum	United States Geological Survey (USGS) Topographic Map of the Muskegon West, Michigan Quadrangle (photo revised 2017)
Topographic Gradient	Generally flat	
Closest Surface Water	Mona Lake located approximately 0.75 miles south of subject property.	
General Soil and Geology		
Bedrock	Marshall Sandstone of an unassigned group, which is included in the Osagian series within the Mississippian system of the Paleozoic Era.	Michigan Department of Natural Resource (MDNR) Geological Survey Division's <i>Bedrock Geology of Southern Michigan</i> (1987)
Quaternary Soils Description	Lacustrine sand and gravel, described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel, chiefly quartz sand but gravel is rich in igneous and metamorphic rocks. These soils occur chiefly as former beach and near-offshore littoral deposits of glacial Great Lakes and may include intercalated lacustrine clay. Locally veneered by discontinuous sheets or small dunes of eolian sand and may include areas of organic soils. In the eastern part of the northern peninsula of Michigan these sands commonly grade upstream (north- or northwest- ward) into outwash deposits. Soil thickness ranges from 3 to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.	Michigan Geological Survey Division's publication, <i>Quaternary Geology of Southern Michigan</i> (1982)
County Soil Survey Description	Plainfield-Urban land complex is described as "nearly level to gently sloping, excessively drained soils that have a course textured subsoil over a coarse textured subsoil over a course textured substratum".	USCS Online Survey
Site-Specific Geology and Hydrogeology		
Soil and bedrock characteristics	No site-specific soil or bedrock information was identified.	Not applicable

Physical Setting Information		Data Sources
Groundwater characteristics	No site-specific groundwater information was identified.	Not applicable

Based on the information presented above, AKT Peerless infers that groundwater in the vicinity of the subject property flows toward the south, with potential influence from Mona Lake. However, local manmade structures (e.g., buildings, roads, sewer systems, and utility service lines) may influence both surface water and groundwater flow. AKT Peerless was unable to precisely document the groundwater flow direction beneath the subject property. To determine the site-specific groundwater flow direction, subsurface information would be necessary.

AKT Peerless did not identify any water supply wells or monitoring wells at the subject property. Groundwater from the area of the subject property does not serve as the primary drinking water source for properties in the City of Muskegon Heights, which obtains its municipal water from Lake Michigan.

4.2 Standard Environmental Record Sources

AKT Peerless retained a third-party vendor to provide current environmental database information compiled by a variety of federal and state regulatory agencies. The purpose of obtaining this data was to evaluate potential environmental risks associated with the subject property, adjoining properties, and nearby sites that are: (1) identified on target lists and (2) within varying distances of up to one mile from the subject property. Refer to the database report included as Appendix D for information regarding database descriptions, search radii, and most recent dates the database information was updated by the vendor.

4.2.1 Subject Property Listings

The database report does not identify the subject property on the referenced databases.

4.2.2 Adjoining Properties

The database report does not identify any adjoining properties on the referenced databases.

4.2.3 Nearby Sites

AKT Peerless' review of the referenced databases also considered the potential or likelihood of contamination from nearby sites. To evaluate which of the nearby sites identified in the database report present an environmental risk to the subject property, AKT Peerless considered the following criteria:

- Type of database on which the site is identified.
- Topographic position of the identified site relative to the subject property.
- Direction and distance of the identified site from the subject property.
- Local soil conditions in the subject property area.
- Known or inferred groundwater flow direction in the subject property area.
- Status of the respective regulatory agency-required investigation(s) of the identified site, if any.
- Surface and subsurface obstructions and diversions (e.g., buildings, roads, sewer systems, utility service lines, rivers, lakes, and ditches) located between the identified site and the subject property.

Only those nearby sites that are judged to present a potential environmental risk to the subject property are further evaluated by reviewing agency file information. Using the above criteria and based upon a review of readily available information contained within the database report, AKT Peerless did not identify nearby sites that present a potential environmental risk to the subject property.

4.3 Regulatory Agency File and Records Review

4.3.1 MDEQ Resource Management Group (RMG)

At the request of the Client, a request was not made to the MDEQ for any records pertaining to the subject property.

AKT Peerless reviewed the MDEQ RMG Waste Data System (WDS) for information regarding waste disposal operations at the subject property. The WDS tracks activities at facilities regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste (LIW) programs.

According to the MDEQ RMG WDS, no file information exists pertaining to the subject property.

4.3.2 MDEQ Remediation and Redevelopment Division (RRD)

AKT Peerless reviewed the MDEQ RRD Perfected Lien List, dated November 2, 2018, to determine if environmental cleanup liens had been filed against the subject property.

AKT Peerless also referenced the MDEQ Storage Tank Information Database (SID) for information regarding the subject property.

At the request of the Client, a request was not made to the MDEQ for any records pertaining to the subject property.

According to the Perfected Lien List, the MDEQ does not have record of environmental cleanup liens filed against the subject property. Further, the subject property was not listed on the MDEQ SID.

4.3.3 Michigan Department of Licensing and Regulatory Affairs (LARA)

At the request of the Client, a request was not made to the LARA for any records pertaining to the subject property.

4.3.4 MDEQ Office of Oil, Gas and Minerals (OOGM)

AKT Peerless reviewed the MDEQ's GeoWebFace online geologic mapping program for oil and gas well records associated with the subject property; however, no records were identified.

4.4 Additional Environmental Record Sources

4.4.1 Local Health Department

At the request of the Client, a request was not made to the Muskegon County Health Department for any records pertaining to the subject property.

4.4.2 Local Fire Department

At the request of the Client, a request was not made to the Muskegon Heights Fire Department for any records pertaining to the subject property.

4.4.3 Previous Environmental Reports

AKT Peerless was not provided with copies of reports that document previous investigations or assessments of the subject property, nor did AKT Peerless identify the existence of such documents during this assessment.

4.5 Historical Use Information

The objective of reviewing historical sources is to: (1) develop a history of previous uses or specific occupancies of the subject property, (2) identify those uses or specific occupancies that are likely to have led to potential environmental concerns at the subject property, and to the extent identifiable, at adjoining properties, and (3) identify obvious uses of the subject property from the present, back to the property's *obvious* first developed use, or back to 1940, whichever is earlier.

Historical Summary – Subject Property

The following table summarizes the general development and use of the subject property, as identified by AKT Peerless based on the referenced data sources:

Subject Property Historical Use Summary

Time Period	Improvements	Use	Owner / Occupant	Data Source(s)
1930-1955	Residential homes and former school	School, Residential	Glendale School	Aerial photographs City Directories
1962-1981	Subject Building 1 Former School	School	Glendale School	Aerial photographs City Directories
1991-1997	Subject Building 1 Subject Building 2 Two Modular Buildings	School	Glendale School	Aerial photographs City directories
2005-2012	Subject building 1 Subject Building 2 Subject Building 3 Parking Lot	School	Glendale School	Aerial photographs City directories
2013-Present	Subject building 1 Subject Building 2 Subject Building 3 Parking Lot	None	Michigan Land Bank	Aerial Photographs City Directories Interviews Site reconnaissance

AKT Peerless was unable to determine the use of the subject property prior to 1930. According to records reviewed during this assessment, the subject property was developed with residential structures and a school as of 1930. As such, AKT Peerless was unable to identify the first developed use of the subject property and was therefore unable to achieve the historical research objectives identified in ASTM Practice E 1527 even after reviewing the standard historical sources identified in ASTM Practice E 1527 that were reasonably ascertainable and likely to be useful. AKT Peerless excluded certain standard historical sources from its review since past experience indicates that such standard historical sources

are not likely to be sufficiently useful, accurate, or complete in terms of satisfying the historical research objectives. However, this data failure is not considered likely to have a material impact upon the findings and conclusions of this report due to the first identifiable use of the subject property and, therefore, does not constitute a significant data gap.

Historical Summary – Adjoining Properties

The adjoining properties have included residential developments since at least 1930.

4.5.1 Aerial Photographs

AKT Peerless obtained aerial photographs for the subject property from ERIS. AKT Peerless' observations noted during the review of these photographs are summarized in the following table. Photocopies of select aerial photographs are presented as Appendix E.

Subject Property Aerial Photography Summary

Photograph Dates	Observations (Subject Property)	Potential Environmental Concerns
1938, 1955	The subject property appears developed with residential structures on the northern portions of the subject property and the former school structure on the southern portion of the subject property.	None observed
1962, 1968, 1974, 1981	The former residences appear razed and subject property appears developed with Subject Building 1 on the northern portion of the subject property and the former school structure on the southern portion of the subject property.	None observed
1981	The former school structure on the southern portion of the subject property appears razed.	None observed
1991, 1997	The subject property appears developed with Subject Building 2 , along with two small structures.	None observed
2005, 2006, 2009, 2010, 2012	The subject property appears developed with Subject Buildings 1, 2, and 3, consistent with current conditions.	None observed

AKT Peerless' review of historical aerial photographs of the adjoining properties is summarized in the following table.

Adjoining Property Aerial Photography Summary

Photograph Dates	Potential Environmental Concerns (Adjoining Properties)
1938-2012	No obvious evidence or indications of environmental concerns were noted with respect to the adjoining properties and nearby sites during AKT Peerless' review of the referenced aerial photographs.

4.5.2 Fire Insurance Maps

At the request of the Client, a review of fire insurance maps was not completed.

4.5.3 City Directories

City Directories from various years between 1930 through 2018 were reviewed by ERIS. The purpose of this review was to determine the past occupancy of the subject property. Directories were reviewed in approximately 5-year intervals, or as available. Information obtained from the reviewed directories is summarized in the following table:

City Directories Data

Year	Address	Listing
1930-1992	3001 Jefferson Street	No listing
1997-2018	3001 Jefferson Street	Glendale Elementary School

Additional addresses associated with the subject property included the 3000 block of Glendale Street (even addresses), 100 Block of Rotterdam Street (even), and 100 Block of West Summit Avenue (odd).

West Summit Avenue consisted of single-family residential listings from 1930 to 1954. Jefferson Street consisted of single-family residential listings from 1930 to 1954. In 1949, Kane Oil Burner Sales and Service was listed along Jefferson Street, southeastern portion of the subject property. It is AKT Peerless' opinion that this former site operation does not represent a REC to the subject property due to duration of operation and lack of regulatory records pertaining to a release at the subject property.

Rotterdam Street was listed as Glendale School from 1930 to 1980 and Glendale School Playground from 1985 to 1990.

AKT Peerless also reviewed city directories for select adjoining properties to determine their past occupancy. No obvious or potential environmental concerns associated with historical occupants of the adjoining properties.

4.5.4 Assessing Department Records

At the request of the Client, a request was not made to the Muskegon Heights Assessing Department for any records pertaining to the subject property.

4.5.5 Building Department Records

At the request of the Client, a request was not made to the Muskegon Heights Building Department for any records pertaining to the subject property.

4.5.6 Recorded Land Title Records

Unless otherwise noted, AKT Peerless did not identify or research any recorded land title records for the subject property.

4.5.7 Other Historical Information

AKT Peerless did not identify any other relevant historical information for the subject property.

5.0 Interviews

5.1 Interview with Subject Property Owner

AKT Peerless interviewed a representative of the Michigan Land Bank Fast Track Authority regarding their knowledge of the subject property. They acquired the property in June 2013 and indicated the subject property was formerly used as a school. No information was reported that would be considered material to identifying recognized environmental conditions in connection with the subject property.

5.2 Interview with Key Site Manager

Refer to section 5.1.

5.3 Interview with Subject Property Occupant(s)

The subject property is unoccupied.

5.4 Interview(s) with Others

AKT Peerless did not conduct interviews with others during this assessment because the historical use of the subject property has been identified. Further, interviews with the occupants of adjoining and nearby properties were not conducted because the subject property is not considered abandoned, as referenced by ASTM.

6.0 Subject Property Reconnaissance

6.1 Methodology and Limiting Conditions

The subject property reconnaissance consisted of visual and physical observations of the subject property. AKT Peerless visually and/or physically observed the periphery of the subject property. In addition, AKT Peerless observed the subject property from all adjacent public thoroughfares. AKT Peerless viewed the subject property following a grid pattern designed to cover representative portions of the unimproved areas.

Mr. Josh Cichy of AKT Peerless conducted the subject property reconnaissance on October 23, 2018. AKT Peerless did not encounter project specific facts or conditions that limited our ability to access the subject property, except for the following:

- AKT Peerless did not access the subgrade steam tunnels or crawlspaces.

6.2 General Subject Property Setting and Operations

The subject property consists of a large school building, a smaller secondary school building, and a modular classroom building. Exterior portions of the subject property consisted of asphalt and concrete pavement, as well as grassy lawns. In general, the subject property is equal elevation to the adjoining properties. AKT Peerless did not observe operations at the subject property, which has been vacant since 2012.

6.3 Observations

6.3.1 Hazardous Substances and Petroleum Products

AKT Peerless did not observe hazardous substances or petroleum products at the subject property.

6.3.2 Hazardous and Non-Hazardous Waste

AKT Peerless did observe hazardous or non-hazardous waste at the subject property including general refuse stored within an on-site dumpster. No evidence of improper waste disposal was observed.

Hazardous and Non-Hazardous Waste

Location	Material	Quantity	Observations
Subject Buildings 1, 2, 3	Aerosol cans, household cleaners, general refuse, building materials	Not determined	No evidence of a release to the subsurface was observed

6.3.3 Storage Tanks

AKT Peerless did not observe evidence of current or former UST systems (e.g., vent pipes, fill ports, dispensing pumps, patched pavement, etc.) at the subject property, except for suspected fill port within the grass and vent pipe located on the northern exterior wall of Subject Building 1.

AKT Peerless did not observe evidence of current or former AST systems (e.g., stands, secondary containments, etc.) at the subject property.

6.3.4 Unidentified Substances/Containers

AKT Peerless did not observe evidence of unidentified substances or other suspect containers on the subject property.

6.3.5 Potential Polychlorinated Biphenyl (PCB) Containing Electrical Equipment

AKT Peerless inspected the subject property for the presence of liquid-cooled electrical units such as transformers and large capacitors. Such units are notable since they may be potential sources of PCBs. AKT Peerless did not observe suspect PCB-containing electrical equipment at the subject property except for the following:

Potential PCB-Containing Electrical Equipment

Source Description	Source Location	Responsibility	Observations
Pole-mounted transformer	Eastern portion of subject property exterior	Consumers Energy	No evidence of a release

AKT Peerless observed a pole-mounted transformer on the eastern portion of the subject property. The transformer is the responsibility of Consumers Energy. In the event of a release incident, Consumers Energy will repair the damaged or leaking electrical unit(s), and return the quality of the affected soil and groundwater, if any, to its pre-release condition. AKT Peerless did not observe evidence or indication of oil stains, leaks, or spills near the transformer.

6.3.6 Interior Staining/Corrosion

AKT Peerless did not observe interior staining or corrosion within the subject buildings.

6.3.7 Drains and Sumps

AKT Peerless did not observe drains or sumps in the subject building, except for the following:

Drains

Description	Location	Observed Environmental Concerns
Floor drain	Subject Building 1 - Boiler Room	None
Storm water crock	Southern exterior portion of Subject Building 1	None
Storm water crock w/ pump	Western exterior of Subject Building 3	None

6.3.8 Discharge Features

Storm water that falls upon the subject property appears to evaporate, percolate directly into the ground to discharge to storm water drains located on the subject property.

6.3.9 Pits, Ponds, and Lagoons

AKT Peerless did not observe pits, ponds, or lagoons in connection with waste treatment or waste disposal at the subject property.

6.3.10 Solid Waste Dumping/Landfilling

AKT Peerless did not observe evidence of solid waste dumping or landfilling at the subject property.

6.3.11 Stained Soil, Stressed Vegetation, Stained Pavement

AKT Peerless did not observe any evidence of stained soil, stressed vegetation, or stained pavement at the subject property.

6.3.12 Well and Septic Systems

AKT Peerless did not observe physical evidence or indication of wells or septic systems at the subject property.

6.3.13 Other Observations

AKT Peerless did not observe evidence of other potential environmental concerns at the subject property.

6.3.14 Adjoining Properties

Based on AKT Peerless' visual observations, the current uses of the adjoining properties do not appear to pose an environmental concern to the subject property.

6.4 Non-ASTM Scope Considerations

AKT Peerless did not evaluate any other potential environmental conditions (i.e., further areas of possible business/environmental concern and/or liability) that are outside the scope of ASTM Practice E 1527. Examples of such potential environmental conditions that were beyond the scope of this Phase I ESA include: asbestos containing materials (ACMs), cultural and historic resources, ecological resources, endangered species, health and safety, high-voltage power lines, indoor air quality, industrial hygiene, lead-based paints (LBPs), lead in drinking water, moisture intrusion/suspect mold growth, noise pollution, radon, regulatory compliance/non-compliance and/or wetlands.

Users of this document, who wish to obtain an evaluation of the subject property relative to any of the aforementioned non-ASTM issues, may contact AKT Peerless to provide these services.

7.0 Findings, Opinions, and Conclusions

AKT Peerless has performed a Phase I ESA in conformance with the scope and limitations of ASTM Practice E 1527 of 3001 Jefferson Street, Muskegon Heights, Muskegon County, Michigan, the subject property. Any exceptions to, or deletions from, this practice are described in Section 8.0 of this report. AKT Peerless' findings and opinions with respect to potential RECs are presented throughout this report, including discussion and analysis of potential RECs that, after further consideration and research, were not determined to be RECs, HRECs, or CRECs. Such findings and opinions are discussed in the appropriate sections of this report.

7.1 Recognized Environmental Conditions

This assessment has revealed no evidence of known recognized environmental conditions in connection with the subject property, except for the following:

REC 1 - During AKT Peerless' site reconnaissance, a suspected fill port and vent pipe was observed on the northern portion exterior of Subject Building 1. The potential exists these items are associated with an UST. AKT Peerless' research did not identify any registered USTs associated with the subject property. The potential exists that hazardous substances and/or petroleum products from abandoned USTs may have impacted the subsurface of the subject property. In AKT Peerless' opinion, the potential presence of USTs of unknown contents and unknown condition presents a REC.

Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of the RECs. Further, AKT Peerless recommends a ground-penetrating radar (GPR) survey to identify any anomalies consistent with an abandoned UST.

7.2 Controlled Recognized Environmental Conditions

This assessment has revealed no evidence of known CRECs in connection with the subject property.

7.3 Historical Recognized Environmental Conditions

This assessment has revealed no evidence of known HRECs in connection with the subject property.

7.4 De Minimis Conditions

During the course of Phase I ESAs, AKT Peerless often encounters conditions that generally do 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. These conditions are not considered RECs, HRECs, or CRECs, but are defined by ASTM Standard E1527 as *de minimis* conditions. In the interest of brevity, AKT Peerless did not develop a full list of *de minimis* conditions in this section, rather evaluated and identified these conditions in the appropriate sections of this report.

7.5 Areas of Potential Environmental Concern

AKT Peerless did not identify other potential environmental concerns (PECs) in connection with the subject property during the course of this Phase I ESA, except for the following:

- The possibility exists that a well and/or septic system was used at the subject property prior to the connection and/or availability of municipal water and sanitary sewer.
In AKT Peerless' opinion, if any septic systems or drinking water wells are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations.
- The possibility exists that alternative heating fuels (i.e. fuel oil and/or coal) were used on the subject property prior to the connection and/or availability of natural gas.
In AKT Peerless' opinion, if any heating oil containers are identified or encountered during future development activities, they should be decommissioned, removed, and/or disposed in accordance with applicable federal, state, and local regulations. Additional action beyond that recommended above may be warranted if evidence of actual or historical heating oil USTs is identified at the subject property in the future.

8.0 Deviations

AKT Peerless did not deviate from ASTM Practice E 1527 when performing this Phase I ESA (i.e., no components of that practice were deleted, and no additions to it were made), except for the following:

- At the request of the Client, AKT Peerless did not review Fire Insurance Maps for the area of the subject property.
- At the request of the Client, AKT Peerless did not request documentation pertaining to the subject property from the Michigan Department of Environmental Quality (MDEQ), Licensing and Regulatory Affairs (LARA), Muskegon County Health Department, Muskegon Heights Fire Department, or Muskegon Heights Building Department.

9.0 Data Gaps

AKT Peerless did not identify or encounter any instances of significant data gaps during the course of this ESA.

10.0 Project Resources and References

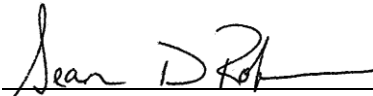
AKT Peerless referred to the following resources between October 19, 2018, and November 6, 2018 to complete its ESA:

- USEPA
- United States Geological Survey (USGS)
- United States Department of Agriculture (USDA)
- Michigan Department of Environmental Quality (MDEQ)
- Muskegon County Health Department
- Environmental Risk Information Service (ERIS)

Other individuals and resources are cited in the appropriate sections of this report.

11.0 Signatures of Environmental Professionals

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



Sean Robinson, CHMM
Group Leader – Project Manager

AKT Peerless

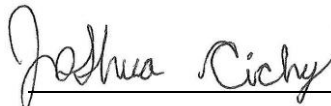
Great Lakes Bay Region, MI

Phone: 989.754.9896

Fax: 989.754.3804

robinsons@aktpeerless.com

The following other consultants contributed to the completion of this report:



Joshua Cichy
Environmental Consultant

AKT Peerless

Saginaw, Michigan Office

Qualifications

Sean D. Robinson

Leader of Field Services/Project Manager CHMM



Mr. Robinson has over 16 years of experience in environmental due diligence, assessment, environmental response activities, corrective action and regulatory compliance management. Mr. Robinson has conducted hundreds of investigations to evaluate the presence, nature, and extent of environmental impact on soil, groundwater, and air.

PROFESSIONAL EXPERIENCE

Senior Environmental Consultant
AKT Peerless Environmental Services

Environmental Field Technician
Peerless Environmental Services, Inc.

AREAS OF EXPERTISE

- Site investigation activities associated with numerous leaking underground storage tank sites
- Completion of Phase I Environmental Site Assessments to meet or exceed ASTM standards
- Coordinate and conduct historical research, interviews, site reconnaissance, and technical writing
- Direct Phase II Subsurface Investigations to completion
- The completion of Baseline Environmental Assessments
- Maintain direct client and regulatory agency contact
- Responsible for job costing and budgeting
- Interpretation of laboratory analytical results and technical report writing
- Conducted groundwater and soil sampling
- Design, install, operate and maintain specialized remediation systems to address soil and groundwater contamination.
- Directed emergency response activities to mitigate potential environmental impacts

EDUCATION

BS: Biology, 1998
Central Michigan University, Mt. Pleasant, MI

CERTIFICATIONS

ASTM International Risk-Based Corrective Action Training
October 2003

OSHA 29 CFR 1910.120
40 and 8 Hour Refresher HAZWOPER Training

Cardiopulmonary Resuscitation (CPR) and Standard First Aid Training Certification

Certified Hazardous Materials Manager (CHMM) by the Institute of Certified Hazardous Materials Managers (CHMM # 13024)

Certified Storm Water (Industrial and Construction Sites) Management Operator by the Michigan Department of Environmental Quality (Certification # C-13162)

SUMMARY OF SELECTED PROJECTS

Prepared cost estimate for removal of underground storage tanks at commercial fueling facility. Conducted soil and groundwater investigation to determine the extent of impact. Evaluate and implement remediation alternatives. Prepared cost estimate for excavation of impacted soil to meet target cleanup goals.

Conducted excavation oversight and verification sampling to verify the effectiveness of remediation. Completed and submitted required compliance reports to the Michigan Department of Environmental Quality (MDEQ).

Conducted soil and groundwater investigations at a leaking underground storage tank site. Free product was encountered in several monitoring wells during the investigation. Conducted monthly groundwater monitoring and bail down tests to determine the most effective free product recovery method.

Designed, installed and operated a free product recovery program, which utilized both passive and vacuum enhanced recovery techniques. Free product monitoring and groundwater monitoring is on going at the site.

Prepared cost estimate to conduct Phase I ESAs, Phase II ESAs, and Due Care Plans at contaminated sites on behalf of a client. Provided technical oversight during completion assessments at each site. Developed remedial strategies for each contaminated site to aid in future redevelopment.

Prepared a Site Assessment Grant Application for a core community on behalf of a municipal client. Upon award of the grant, completed site assessment activities utilizing MDEQ grant money to quantify environmental concerns to promote the redevelopment of the properties.

Conducted initial response activities to mitigate acute and physical hazards following the release of a substantial quantity of a petroleum product within the interior of a residence. Completed remediation activities to address residual soil and groundwater contamination resulting from the release.

Designed, constructed and operated a pump and treat system which used activated carbon to remove contaminants. Conducted site investigation and monitoring activities to evaluate the extent of contamination and verify the effectiveness of remediation efforts. Completed required reporting documenting all activities completed to successfully obtain unrestricted closure of the release from the MDEQ.

Joshua M. Cichy

Environmental Consultant

Mr. Cichy is an Environmental Consultant, focusing on Environmental Investigations and Due Diligence services.

EDUCATION

BS: Bachelor of Science - Geology, 2018 / Central Michigan University, Mount Pleasant, Michigan

CERTIFICATIONS

OSHA 29 CFR 1910.120 / 29 CFR 1926.65 - 40 Hour HAZWOPER Training

American Red Cross / Adult CPR/AED and First Aid

American Institute of Professional Geologists

Central Michigan University Student Chapter President / ID: 205470

EXPERIENCE

Environmental Consultant

AKT Peerless Environmental Services

SKILLS

Phase I & Phase II Environmental Site Assessment to meet or exceed ASTM standards

Coordinate and conduct historical research, interview, site reconnaissance, and technical writing

Interpolation of laboratory analytical results

ArcGIS

Surfer Software

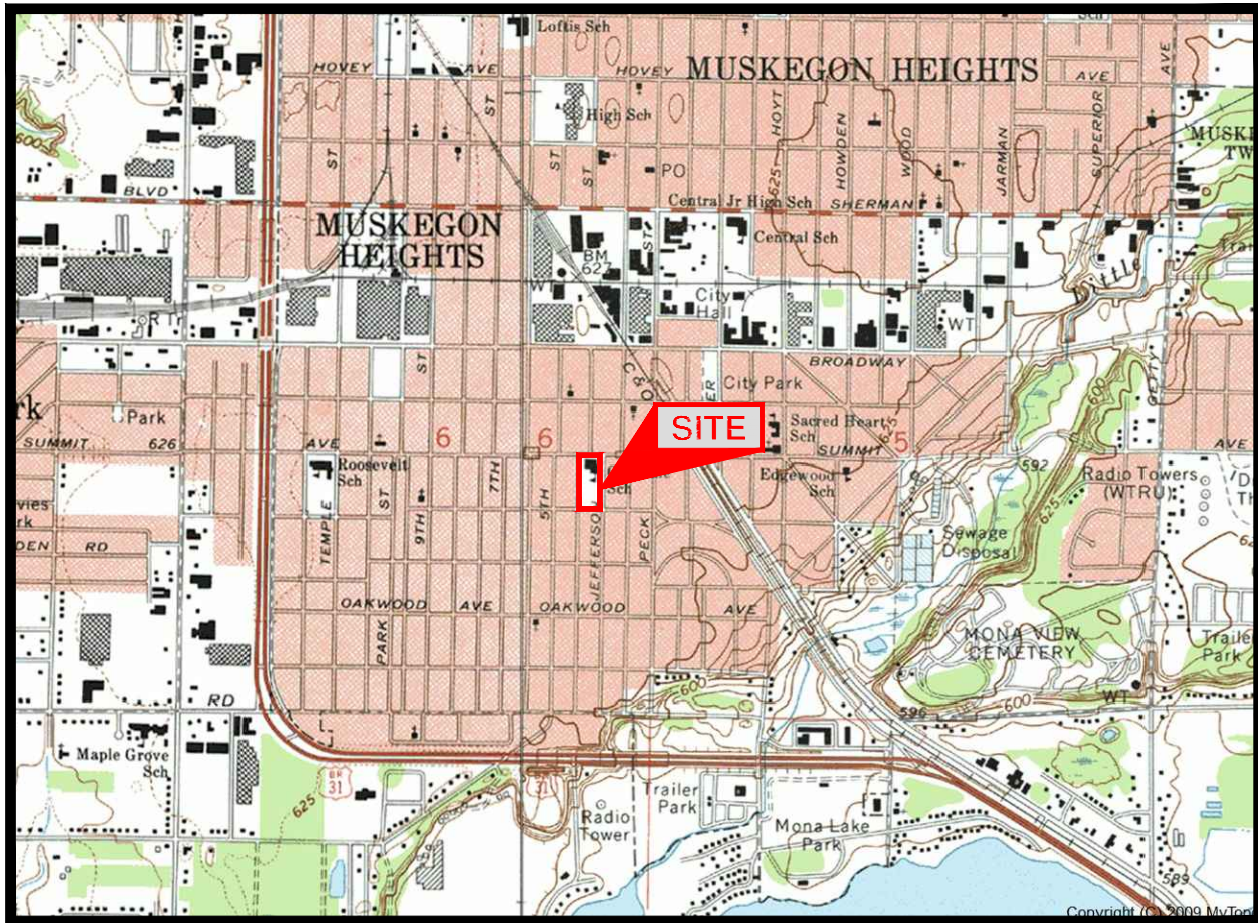
Stanford Geostatistical Modeling Software (SGeMS)

Figures

MUSKEGON EAST QUADRANGLE

MICHIGAN - MUSKEGON COUNTY

7.5 MINUTE SERIES (TOPOGRAPHIC)



T.9 N.-R.16 W.

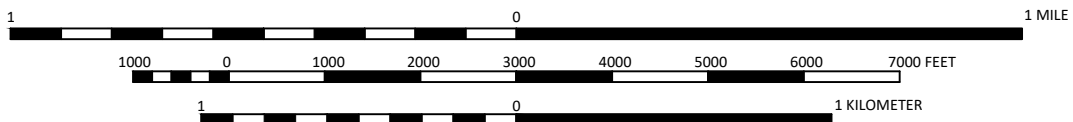
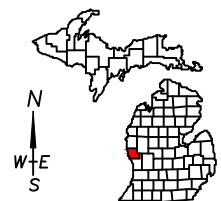


IMAGE TAKEN FROM 1972 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1980

MICHIGAN
QUADRANGLE LOCATION



TOPOGRAPHIC LOCATION MAP

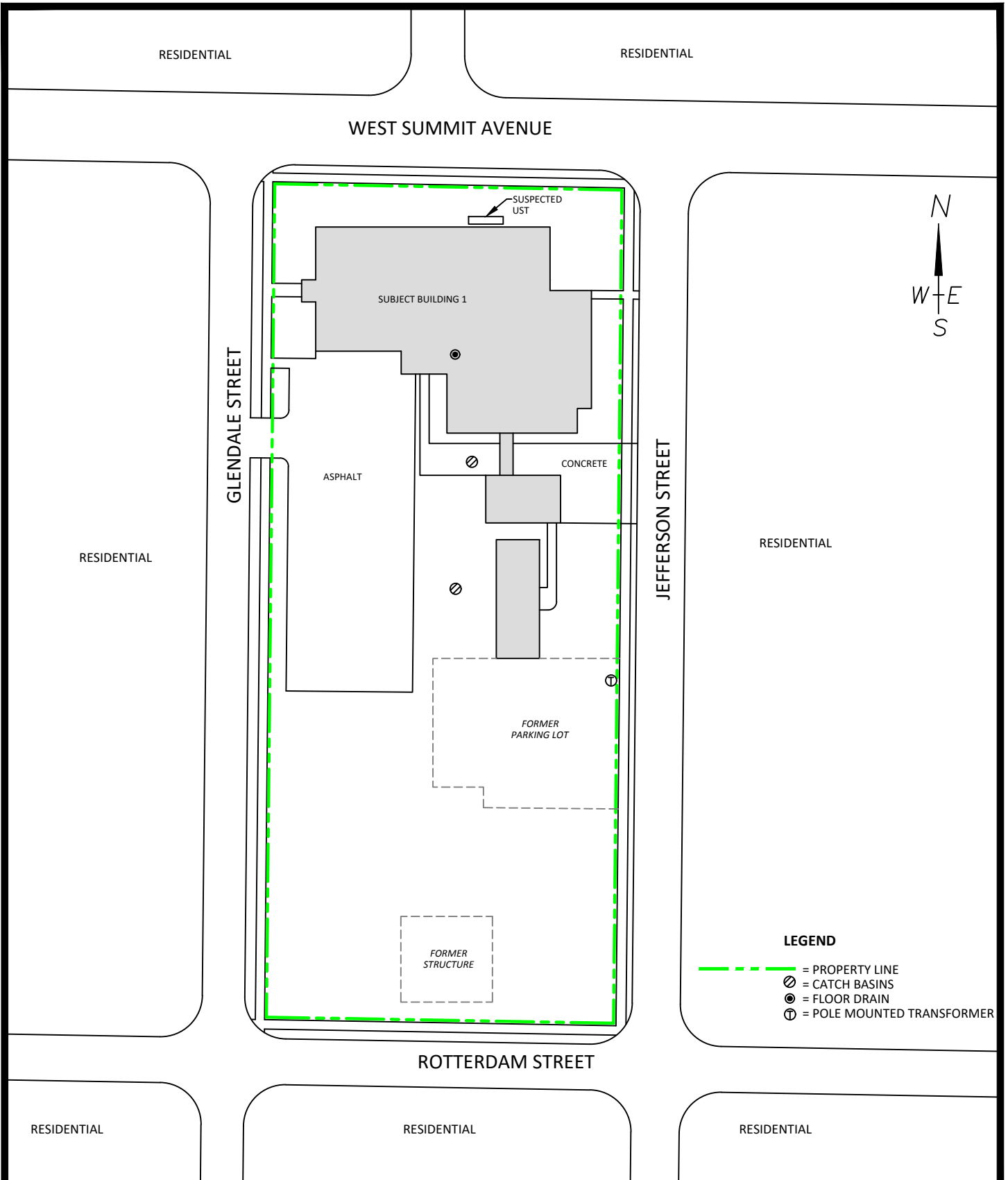
3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-1-17

DRAWN BY: OGO
DATE: 10/30/2018

AKTPEERLESS

www.aktpeerless.com

FIGURE 1



www.aktpeerless.com

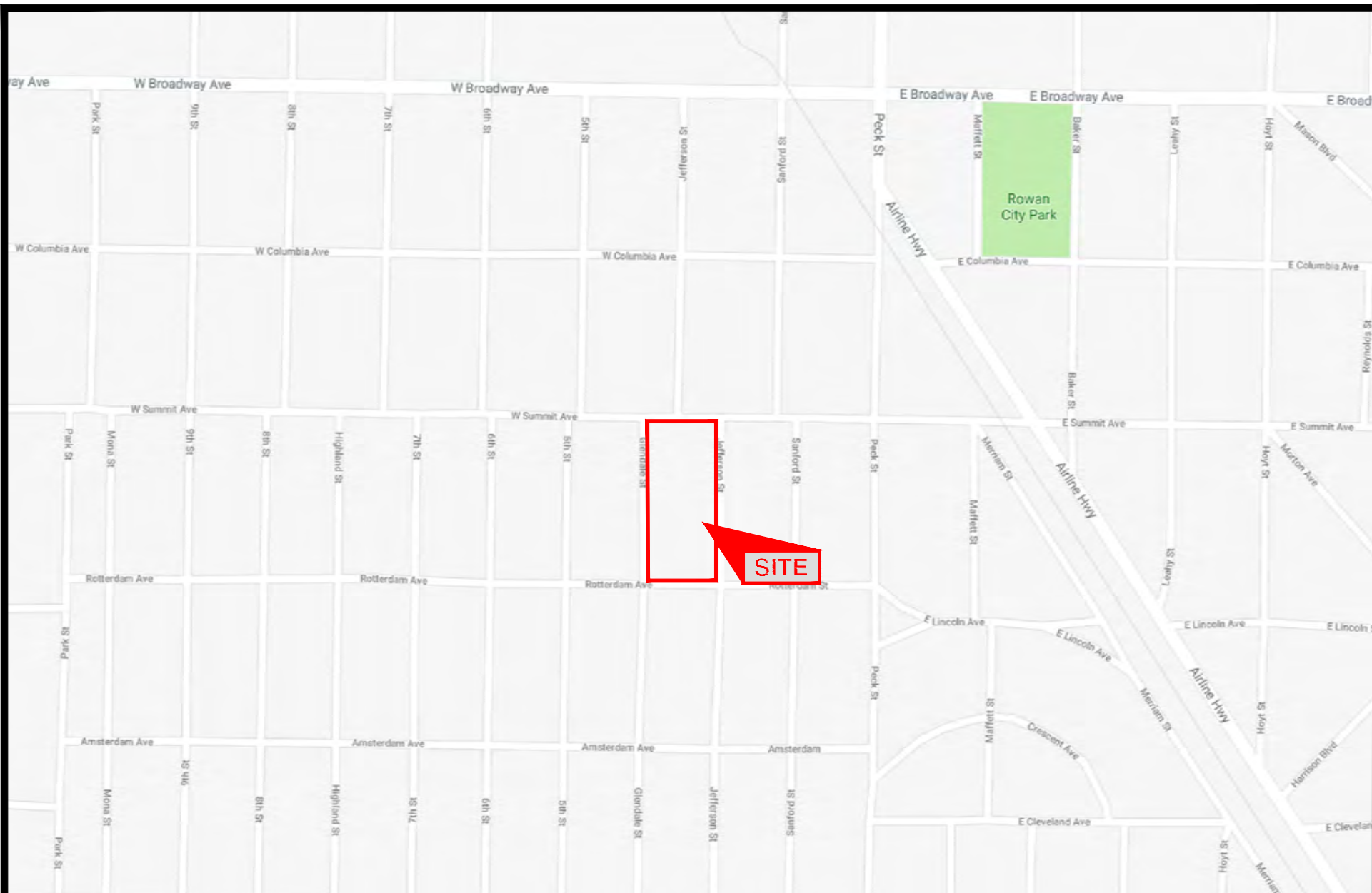
SUBJECT PROPERTY MAP

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-1-17

DRAWN BY: OGO
DATE: 10/30/2018

0 40 80
SCALE: 1" = 80'

FIGURE 2



SUBJECT PROPERTY LOCATION MAP

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-1-17

LEGEND



DRAWN BY: OGO
DATE: 10/30/2018

FIGURE 3

Appendix A

General Limitations and Exceptions

General Limitations and Exceptions

Subject to the proposal, scope-of-services, and the related terms and conditions referenced in Section 1.0 of this Phase I ESA, AKT Peerless accepts responsibility for the competent performance of its duties in executing the assignment and preparing reports in accordance with the normal standards of the profession, but disclaims any responsibility for consequential damages.

Although AKT Peerless believes that the findings, opinions, and recommendations contained herein are reliable and appropriate, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive, or that the information obtained from any data sources is complete or accurate.

Along with the inherent limitations set forth in various sections of ASTM Standard Practice E 1527-13 (ASTM Practice E 1527), the accuracy and completeness of this report may be limited by the following facts or conditions:

- Due to the poor scale of the historical aerial photographs, the presence or absence of small features (e.g., individual drums, fuel dispensers) could not be discerned reliably.
- The poor resolution and/or illegibility of fire insurance map documentation provided to AKT Peerless may have limited accurate interpretation of the historical uses of the subject and adjoining properties.
- AKT Peerless made reasonable efforts to determine if USTs or related equipment (collectively referred to as UST systems) are or have been present at the subject property. AKT Peerless defines reasonable efforts as obtaining and evaluating information from visual observations of unobstructed areas and from the secondary sources cited in this report. AKT Peerless recognizes, and suggests users of this assessment acknowledge, that the accuracy of our conclusions relative to the on-site presence or use of UST systems may be directly affected by the presence of physical obstructions at the time of the reconnaissance, or affected by our receipt and evaluation of incorrect information.
- AKT Peerless' evaluation of soil and groundwater features at and near the subject property was based only on published maps and other readily available information. AKT Peerless used this information to assess soil types and groundwater flow directions to determine if conditions at any nearby sites present an environmental threat to the subject property.
- Unless specifically noted otherwise, invasive investigation of any kind has not been performed during this Phase I ESA, nor has observation under floors, above ceilings, behind walls, within the surface and subsurface soil, within groundwater, within confined spaces, roof tops, or inaccessible areas been performed.
- AKT Peerless did not conduct sampling or analysis of air, soil, groundwater, soil gas, surface water, or building materials as part of this Phase I ESA, unless specifically noted otherwise.
- This Phase I ESA did not include a physical inspection of the adjoining properties, which AKT Peerless observed from the subject property and from readily accessible public rights-of-way.
- Client understands that in the event AKT Peerless determines a regulatory agency file review is necessary for the subject, adjoining, and nearby properties, and such files are not reasonably ascertainable as defined under ASTM Practice E 1527, that at an additional cost, the Client may elect to retain AKT Peerless for additional tasks to attempt to secure such regulatory agency files or seek information from alternative sources.
- Client understands that a *User* seeking to qualify for an LLP to CERCLA liability has specific obligations for completing a successful application of this Phase I ESA. AKT Peerless' scope of

work does not include an evaluation or completion of these specific user obligations under ASTM Practice E 1527.

- AKT Peerless' scope of services did not include conducting a review of property title documentation. AKT Peerless requested property title documentation and environmental cleanup liens from the Client, but was not provided this information, unless specifically noted otherwise.
- Unless specifically noted, this assessment did not include a review or audit of operational environmental compliance issues, or of any environmental management systems, that may be associated with the subject property. Furthermore, this Phase I ESA does not address requirements of any state or local laws or of any federal laws other than the all appropriate inquiry provisions of the LLPs. Users are cautioned that federal, state, and local laws may impose environmental assessment obligations that are beyond the scope of this Phase I ESA. Users should also be aware that there are likely to be other legal obligations.
- Unless specifically noted, this Phase I ESA did not include any investigation or evaluation of issues not specifically related to petroleum products or hazardous substances as defined in CERCLA (i.e., other areas of potential business environmental risk such as radon, lead in drinking water, etc.).
- The information and opinions contained in the report are given in light of this assignment. The report must be reviewed and relied upon only in conjunction with the terms and conditions expressly agreed-upon by the parties and as limited therein.
- Although AKT Peerless believes the results contained in herein are reliable, AKT Peerless cannot warrant or guarantee that the information provided is exhaustive, or that the information provided by the Client, individuals, regulatory agency representatives, environmental database vendors, third parties, or the secondary information sources cited in this report is complete or accurate.
- AKT Peerless is not in a position to provide an opinion regarding the Fair Market Value of the subject property. Therefore, a comparison of the purchase price of the subject property to other similar real estate transactions was not conducted during this assessment.
- Nothing in this report constitutes a legal opinion or legal advice. Furthermore, AKT Peerless' Phase I ESA is not intended to provide legal advice or guidance to qualify for Landowner Liability Protections (LLPs) to CERCLA liability. AKT Peerless recommends Client seek legal counsel and advice to evaluate and determine the requirements to qualify for an LLP to CERCLA liability.
- AKT Peerless relied upon specific or common knowledge of the Client, or information provided to the Client, to identify environmental liens, institutional controls, activity use limitations, or property valuation issues. As possible within the time frame and cost of this project, AKT Peerless looked for any obvious environmental information regarding these issues made readily available during the course of this ESA.
- Environmental conditions and regulations are subject to constant change and reinterpretation. One should not assume that any on-site conditions and/or regulatory statutes or rules will remain constant in the future, after AKT Peerless has completed the scope of work for this project. Furthermore, because of the facts stated in this report are subject to professional interpretation, differing conclusions could be reached by other professionals.
- The information and opinions presented in this report are for the exclusive use of the Client. No distribution to or reliance by other parties may occur without the express written permission of AKT Peerless. AKT Peerless will not distribute this report without written consent from the Client, or as required by law or by a Court order.

- Any third parties to whom the right to rely on the contents of this report have been granted by AKT Peerless, which is explicitly required prior to any third-party release, expressly agrees to be bound by the original terms and conditions entered into by AKT Peerless and the Client.
- Any reports, field data, field notes, laboratory testing, calculations, estimates or other documents prepared by or relied upon by AKT Peerless are the property of AKT Peerless. If any of these documents are released or obtained by a party other than the client, AKT Peerless may not discuss the project with that party unless the original contracted client notifies AKT Peerless of the same and AKT Peerless is authorized to disclose the information and to discuss the project with others. AKT Peerless further states that it disclaims any duty of any kind or nature to any person or entity other than the client in preparing this report, except as otherwise agreed with the Client.

Appendix B

Property Description

Parcel Number: 26-770-011-0001-00

Jurisdiction: CITY OF MUSKEGON HEIGHTS

County: MUSKEGON

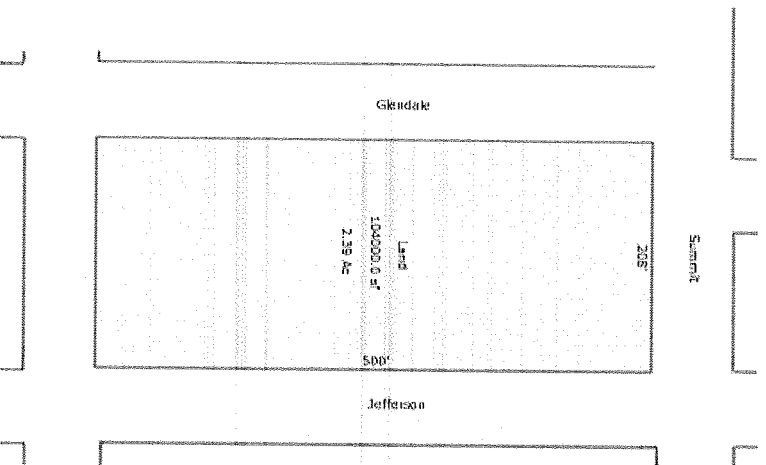
Printed on

10/23/2018

Grantor	Grantee	Sale Price	Sale Date	Inst. Type	Terms of Sale	Liber & Page	Verified By	Prct. Trans.	
MUSKEGON HEIGHTS PUBLIC S	MICHIGAN LAND BANK EAST T	0	06/26/2013	QC	QUIT- CLAIM	4012/641	DEED	0.0	
Property Address		Class: EXEMPT	Zoning: C-2 C	Building Permitt(s)	Date	Number	Status		
3001 JEFFERSON ST		School: MUSKEGON HEIGHTS SCHOOLS							
Owner's Name/Address		P.R.E. 0%							
MICHIGAN LAND BANK EAST TRACK		MAP #: 26-061-011-010							
PO BOX 30766		2019 Est TCV Tentative							
LANSING MI 48913		Land Value Estimates for Land Table 00010.SOUTHWEST							
Tax Description	Public Improvements	* Factors *							
HT7013 CHAS M STEELE'S SUB'D BLK 11	Dirt Road	Description	Frontage	Depth	Front	Depth	Rate	%Adj. Reason	
ENTIRE	Gravel Road	SOUTHWEST	208.00	500.00	1.0000	1.0000	70	100	
Comments/Influences	Paved Road	208 Actual Front Feet, 2.39 Total Acres	Total Est. Land Value =			Value			
	Storm Sewer					14,560			
	Sidewalk					14,560			
	Water								
	Sewer								
	Electric								
	Gas								
	Curb								
	Street Lights								
	Standard Utilities								
	Underground Utils.								
	Topography of Site								
	Level								
	Rolling								
	Low								
	High								
	Landscaped								
	Swamp								
	Wooded								
	Pond								
	Waterfront								
	Ravine								
	Wetland								
	Flood Plain								
Who	When	What	Year	Land Value	Building Value	Assessed Value	Board of Review	Tribunal/ Other	Taxable Value
	2019	EXEMPT	2019	EXEMPT	EXEMPT	EXEMPT			EXEMPT
	2018	EXEMPT	2018	EXEMPT	EXEMPT	EXEMPT			EXEMPT
	2017	0	2017	0	0	0			0
	2016	0	2016	0	0	0			0

The Equalizer. Copyright (c) 1999 - 2009.
 Licensed To: City of Muskegon Heights,
 County of Muskegon, Michigan

*** Information herein deemed reliable but not guaranteed***



Sketch by Apex Sketch

*** Information herein deemed reliable but not guaranteed***

Appendix C

Reconnaissance Photographs



VIEW OF SUBJECT BUILDING 1 FACING SOUTHWEST



VIEW OF SUBJECT BUILDING 1 FACING NORTH



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



VIEW OF SUBJECT BUILDING 1 SUSPECT UST



INTERIOR VIEW OF SUBJECT BUILDING 1 BOILER ROOM



INTERIOR VIEW OF SUBJECT BUILDING 1 UTILITY CLOSET



INTERIOR VIEW OF SUBJECT BUILDING 1 HALLWAY



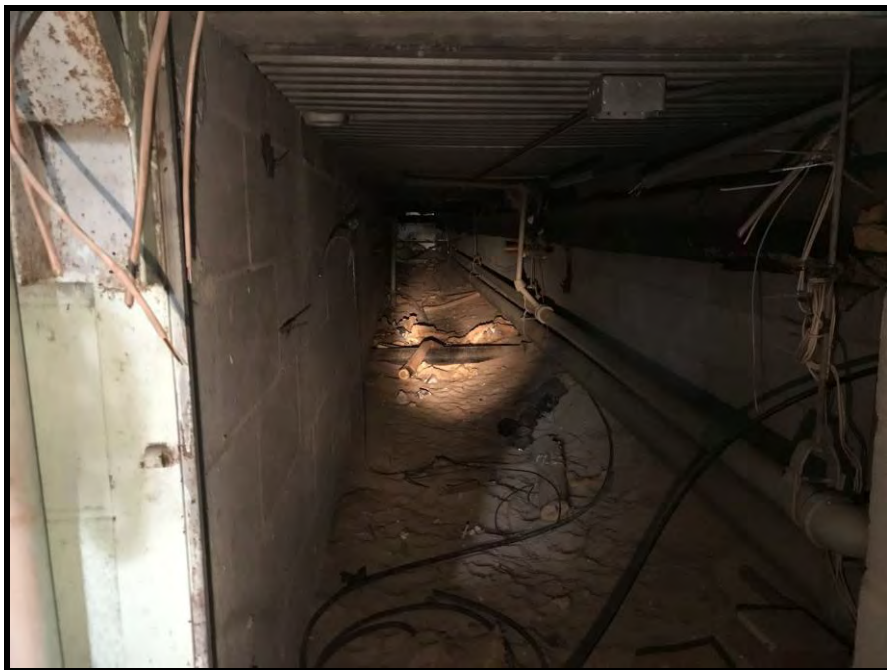
INTERIOR VIEW OF SUBJECT BUILDING 1 REPRESENTATIVE CLASSROOM



INTERIOR VIEW OF SUBJECT BUILDING 1 GYMNASIUM



INTERIOR VIEW OF SUBJECT BUILDING 1 LOBBY



INTERIOR VIEW OF SUBJECT BUILDING 1 TUNNELS



VIEW OF SUBJECT BUILDING 2 FACING EAST



VIEW OF SUBJECT BUILDING 2 FACING WEST



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



INTERIOR VIEW OF SUBJECT BUILDING 2 CLASSROOM



INTERIOR VIEW OF SUBJECT BUILDING 2 CLASSROOM



VIEW OF SUBJECT BUILDING 2 CRAWL SPACE



VIEW OF SUBJECT BUILDING 3 FACING SOUTHEAST



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



VIEW OF SUBJECT BUILDING 3 FACING NORTHWEST



INTERIOR VIEW OF SUBJECT BUILDING 3



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



INTERIOR VIEW OF SUBJECT BUILDING 3 CRAWLSPACE



VIEW OF SUBJECT PROPERTY STORM WATER RESERVOIR



VIEW OF NORTHERN ADJOING PROPERTIES



VIEW OF EASTERN ADJOING PROPERTIES



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s



VIEW OF SOUTHERN ADJOING PROPERTIES



VIEW OF WESTERN ADJOING PROPERTIES



PROPERTY PHOTOGRAPHS

3001 JEFFERSON STREET
MUSKEGON COUNTY, MICHIGAN

TAKEN BY: JMC
DATE: 10/23/2018

PROJECT NUMBER: 13789s

Appendix D

Standard Environmental Record Database Report



DATABASE REPORT

Project Property: *Woodward
3001 Jefferson Street
Muskegon Heights MI 49444
13788s*

Project No: *20181022006*

Report Type: *Database Report*

Order No: *20181022006*

Requested by: *AKT Peerless*

Date Completed: *October 24, 2018*

**Environmental Risk
Information Services**
A division of Glacier Media Inc.
P: 1.866.517.5204
E: info@erisinfo.com

www.erisinfo.com

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Executive Summary

Property Information:

Project Property: Woodward
3001 Jefferson Street Muskegon Heights MI 49444

Project No: 13788s

Coordinates:

Latitude:	43.1973
Longitude:	-86.24725
UTM Northing:	4,783,000.00
UTM Easting:	561,158.88
UTM Zone:	UTM Zone 16T

Elevation: 629 FT

Order Information:

Order No: 20181022006
Date Requested: October 22, 2018
Requested by: AKT Peerless
Report Type: Database Report

Historicals/Products:

City Directory Search	CD - 1 Street Search
ERIS Xplorer	ERIS Xplorer
Excel Add-On	Excel Add-On

Executive Summary: Report Summary

Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
<u>Standard Environmental Records</u>								
Federal								
NPL	Y	1	0	0	0	0	0	0
PROPOSED NPL	Y	1	0	0	0	0	0	0
DELETED NPL	Y	.5	0	0	0	0	-	0
SEMS	Y	.5	0	0	0	0	-	0
ODI	Y	.5	0	0	0	0	-	0
SEMS ARCHIVE	Y	.5	0	0	0	1	-	1
CERCLIS	Y	.5	0	0	0	1	-	1
IODI	Y	.5	0	0	0	0	-	0
CERCLIS NFRAP	Y	.5	0	0	0	1	-	1
CERCLIS LIENS	Y	PO	0	-	-	-	-	0
RCRA CORRACTS	Y	1	0	0	0	0	1	1
RCRA TSD	Y	.5	0	0	0	1	-	1
RCRA LQG	Y	.25	0	0	0	-	-	0
RCRA SQG	Y	.25	0	0	0	-	-	0
RCRA CESQG	Y	.25	0	0	0	-	-	0
RCRA NON GEN	Y	.25	0	1	0	-	-	1
FED ENG	Y	.5	0	0	0	0	-	0
FED INST	Y	.5	0	0	0	0	-	0
ERNS 1982 TO 1986	Y	PO	0	-	-	-	-	0
ERNS 1987 TO 1989	Y	PO	0	-	-	-	-	0
ERNS	Y	PO	0	-	-	-	-	0
FED BROWNFIELDS	Y	.5	0	0	0	3	-	3
FEMA UST	Y	.25	0	0	0	-	-	0
SEMS LIEN	Y	PO	0	-	-	-	-	0
SUPERFUND ROD	Y	1	0	0	0	0	0	0
State								
UNREG TANK	Y	.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
SHWS	Y	1	0	0	0	4	14	18
DELISTED SHWS	Y	1	0	0	1	1	2	4
SITE CLEANUP	Y	.25	0	0	0	-	-	0
SWF/LF	Y	.5	0	0	0	0	-	0
WASTE	Y	.5	0	1	2	24	-	27
LUST	Y	.5	0	0	2	4	-	6
UST	Y	.25	0	0	3	-	-	3
AST	Y	.25	0	0	0	-	-	0
DELISTED LUST	Y	.5	0	0	0	0	-	0
DELISTED TANK	Y	.25	0	0	0	-	-	0
AUL	Y	.5	0	0	0	0	-	0
BROWNFIELDS	Y	.5	0	0	0	0	-	0

Tribal

INDIAN LUST	Y	.5	0	0	0	0	-	0
INDIAN UST	Y	.25	0	0	0	-	-	0
DELISTED ILST	Y	.5	0	0	0	0	-	0
DELISTED IUST	Y	.25	0	0	0	-	-	0

County

No County standard environmental record sources available for this State.

Additional Environmental Records

Federal

FINDS/FRS	Y	PO	0	-	-	-	-	0
TRIS	Y	PO	0	-	-	-	-	0
HMIRS	Y	.125	0	0	-	-	-	0
NCDL	Y	PO	0	-	-	-	-	0
TSCA	Y	.125	0	0	-	-	-	0
HIST TSCA	Y	.125	0	0	-	-	-	0
FTTS ADMIN	Y	PO	0	-	-	-	-	0
FTTS INSP	Y	PO	0	-	-	-	-	0
PRP	Y	PO	0	-	-	-	-	0
SCRD DRYCLEANER	Y	.5	0	0	0	0	-	0
ICIS	Y	PO	0	-	-	-	-	0
FED DRYCLEANERS	Y	.25	0	0	0	-	-	0
DELISTED FED DRY	Y	.25	0	0	0	-	-	0
FUDS	Y	1	0	0	0	0	0	0
MLTS	Y	PO	0	-	-	-	-	0
HIST MLTS	Y	PO	0	-	-	-	-	0
MINES	Y	.25	0	0	0	-	-	0
ALT FUELS	Y	.25	0	0	0	-	-	0
SSTS	Y	.25	0	0	0	-	-	0

Database	Searched	Search Radius	Project Property	Within 0.12mi	.125mi to 0.25mi	0.25mi to 0.50mi	0.50mi to 1.00mi	Total
PCB	Y	.5	0	0	0	1	-	1
State								
SPILLS	Y	.125	0	0	-	-	-	0
BEA	Y	1	0	0	0	22	85	107
DRYCLEANERS	Y	.25	0	0	0	-	-	0
DELISTED DRYCLEANERS	Y	.25	0	0	0	-	-	0
Tribal	No Tribal additional environmental record sources available for this State.							
County	No County additional environmental record sources available for this State.							

Total:	0	2	8	63	102	175
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* PO – Property Only

* 'Property and adjoining properties' database search radii are set at 0.25 miles.

Executive Summary: Site Report Summary - Project Property

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
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No records found in the selected databases for the project property.

Executive Summary: Site Report Summary - Surrounding Properties

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
1	RCRA NON GEN	WEST MICHIGAN ENFORCEMENT	2920 SANFORD ST MUSKEGON MI 49444	NE	0.12 / 622.53	0	43
1	WASTE	WEST MICHIGAN ENFORCEMENT	2920 SANFORD ST MUSKEGON MI 49444	NE	0.12 / 622.53	0	44
2	DELISTED SHWS	Heritage Hospital (Former)	3014 Peck Street Muskegon Heights MI 49444	ENE	0.13 / 701.29	-1	44
3	LUST	Kamaljit Singhvirk	3000 Peck St Muskegon Heights MI 49444	ENE	0.13 / 703.58	-1	44
			Facility ID: 00012856 Leak ID Release Status: C-2128-91 Open				
3	UST	Kamaljit Singhvirk	3000 PECK ST MUSKEGON HEIGHTS MI 49444-2933	ENE	0.13 / 703.58	-1	46
			Facility No: 12856 Tank ID Tank Status Removed Closed: 4 Removed from Ground 9/17/1991, 2 Removed from Ground 9/17/1991, 6 Removed from Ground 9/17/1991, 1 Removed from Ground 9/17/1991, 3 Removed from Ground 9/17/1991, 5 Removed from Ground 9/17/1991, 8 Currently In Use , 7 Currently In Use				
3	WASTE	PATS SERVICE	3000 PECK ST MUSKEGON MI 49444	ENE	0.13 / 703.58	-1	56
4	WASTE	ESSINGS AUTOBODY	2928 PECK ST MUSKEGON MI 49444	ENE	0.15 / 797.63	-2	56
5	LUST	Gte 6052-001	2908 Peck St Muskegon MI 49444-2034	NE	0.18 / 930.20	-3	56
			Facility ID: 00011261 Leak ID Release Status: C-1385-85 Closed, C-0921-96 Closed				
5	UST	Gte 6052-001	2908 PECK ST MUSKEGON MI 49444-2034	NE	0.18 / 930.20	-3	57
			Facility No: 11261 Tank ID Tank Status Removed Closed: Removed from Ground 10/16/1996				
6	UST	Derby Auto Service Center	2922 PECK ST MUSKEGON MI 49444-2034	NE	0.18 / 955.92	-2	58
			Facility No: 1311 Tank ID Tank Status Removed Closed: 1 Removed from Ground 1/29/1992				
7	DELISTED SHWS	2812-2814 Peck Street	2812-2814 Peck Street Muskegon Heights MI	NNE	0.26 / 1,387.14	1	59
8	WASTE	TEXTRON INC CWC CASTINGS DIV PLT #1	SANFORD ST & BROADWAY MUSKEGON HEIGHTS MI 49441	NNE	0.27 / 1,408.04	0	60

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
9	FED BROWNFIELDS	Alaska Refrigerator Co. & Borg	150 W. Broadway Ave. Muskegon Heights MI	NNW	0.28 / 1,452.32	0	60
9	SHWS	Laboratory Furniture (Former)	150 West Broadway Avenue Muskegon Heights MI 49444	NNW	0.28 / 1,452.32	0	62
10	WASTE	COLUMBIA COURT	65 E COLUMBIA MUSKEGON HEIGHTS MI 49444	ENE	0.28 / 1,456.81	-1	62
11	BEA	183 W. Broadway	183 W Broadway MI	NNW	0.28 / 1,494.72	0	62
11	LUST	Rita Duca	183 W Broadway Ave Muskegon MI 49444-2060 <i>Facility ID:</i> 50002543 <i>Leak ID Release Status:</i> C-0128-02 Closed	NNW	0.28 / 1,494.72	0	62
12	WASTE	CLUCHEY RADIATOR SERVICE	201 W BROADWAY AVE MUSKEGON HEIGHTS MI 49441	NNW	0.30 / 1,574.60	-1	63
13	LUST	P & J Auto Elec	240 W Broadway Ave Muskegon Hts MI 49444-2002 <i>Facility ID:</i> 00002819 <i>Leak ID Release Status:</i> C-0265-97 Open	NNW	0.32 / 1,664.14	-2	63
13	WASTE	T & J AUTO ELECTRIC	240 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NNW	0.32 / 1,664.14	-2	64
14	WASTE	SANDFORD ST LDC	2761 PECK ST MUSKEGON HEIGHTS MI 49444	NNE	0.32 / 1,706.07	0	65
15	WASTE	WEST SIDE CAR WASH	250 W BROADWAY AVE MUSKEGON MI 49441	NW	0.33 / 1,727.22	-2	65
16	SHWS	Rose Baker	251 W Broadway Ave Muskegon Hts MI 494442048	NW	0.33 / 1,744.23	-2	65
17	WASTE	LABORATORY FURNITURE MIDWEST INC	2736 6TH ST MUSKEGON HEIGHTS MI 49444	NNW	0.34 / 1,798.04	0	65
18	BEA	2719 Sanford Street	2719 Sanford Street MI 49444	N	0.34 / 1,801.30	0	65

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>18</u>	BEA	2719 Sanford Street	2719 Sanford Street MI 49444	N	0.34 / 1,801.30	0	<u>65</u>
<u>19</u>	CERCLIS	BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	-1	<u>66</u>
<u>19</u>	CERCLIS NFRAP	BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	-1	<u>67</u>
<u>19</u>	SEMS ARCHIVE	BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	-1	<u>68</u>
<u>20</u>	SHWS	Ashendorf Auto Parts (Former)	15 East Center Street Muskegon Heights MI 49444	NNE	0.35 / 1,869.31	-1	<u>68</u>
<u>21</u>	WASTE	CHEMICAL WASTE MGMT INC	2724 PECK ST MUSKEGON MI 49444	NNE	0.36 / 1,911.06	0	<u>68</u>
<u>21</u>	WASTE	CITY OF MUSKEGON HEIGHTS	2724 PECK ST MUSKEGON HEIGHTS MI 49444	NNE	0.36 / 1,911.06	0	<u>69</u>
<u>22</u>	LUST	West Sanford Village	2700 SANFORD ST MUSKEGON MI 49444 <i>Facility ID:</i> 00013319 <i>Leak ID / Release Status:</i> C-1431-91 Closed	N	0.37 / 1,942.13	0	<u>69</u>
<u>22</u>	WASTE	JAMES CULLOM	2700 SANFORD ST MUSKEGON HEIGHTS MI 49444	N	0.37 / 1,942.13	0	<u>70</u>
<u>23</u>	BEA	2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	0	<u>70</u>
<u>23</u>	BEA	2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	0	<u>70</u>
<u>23</u>	BEA	2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	0	<u>70</u>
<u>23</u>	BEA	2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	0	<u>70</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>24</u>	WASTE	SHORELINE METAL FINISHING	325 W BROADWAY AVE MUSKEGON MI 49444	NW	0.38 / 2,015.91	-3	<u>70</u>
<u>25</u>	WASTE	FAMILY DOLLAR #1791	120 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NE	0.38 / 2,028.90	-2	<u>71</u>
<u>26</u>	RCRA TSD	MEIER CLEANERS INC	2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	NE	0.39 / 2,083.56	-2	<u>71</u>
<u>26</u>	WASTE	MEIER CLEANERS INC	2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	NE	0.39 / 2,083.56	-2	<u>73</u>
<u>27</u>	FED BROWNFIELDS	ANCOR Corporation	339 W. Broadway Avenue Muskegon Heights MI	NW	0.40 / 2,107.33	-3	<u>73</u>
<u>28</u>	WASTE	FAMILY DOLLAR #1791	150 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NE	0.41 / 2,178.82	-2	<u>75</u>
<u>29</u>	WASTE	GH IMAGING	2651 PECK ST MUSKEGON MI 49444	NNE	0.43 / 2,253.50	-1	<u>75</u>
<u>30</u>	BEA	2640 Peck Street	2640 Peck Street MI	NNE	0.43 / 2,290.13	-1	<u>75</u>
<u>30</u>	BEA	2640 Peck Street	2640 Peck Street MI	NNE	0.43 / 2,290.13	-1	<u>76</u>
<u>31</u>	WASTE	MUSKEGON WINDWOW CLEANING	2653 7TH ST MUSKEGON HEIGHTS MI 49444	NNW	0.44 / 2,342.67	-3	<u>76</u>
<u>32</u>	BEA	2724 Ninth Street	2724 Ninth Street MI	NW	0.45 / 2,361.69	-3	<u>76</u>
<u>32</u>	WASTE	AERO MFG	2724 9TH ST MUSKEGON HEIGHTS MI 49441	NW	0.45 / 2,361.69	-3	<u>76</u>
<u>33</u>	BEA	2624 - 6th Street	2624 - 6th Street MI	NNW	0.45 / 2,387.28	-1	<u>76</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
33	WASTE	MUSKEGON AREA TRANSIT SYSTEM	2624 6TH ST MUSKEGON MI 49444	NNW	0.45 / 2,387.28	-1	76
34	FED BROWNFIELDS	Security Steel Craft Corp	2636 Sanford St. Muskegon Heights MI	N	0.46 / 2,426.38	-1	77
34	WASTE	SECURITY STEELCRAFT CORP	2636 SANFORD ST MUSKEGON MI 49444	N	0.46 / 2,426.38	-1	79
35	WASTE	EAGLE MACHINE TOOL CORP	200 E BROADWAY AVE MUSKEGON MI 49444	NE	0.46 / 2,442.28	-3	79
36	LUST	Lift Tech International Inc	414 W BROADWAY MUSKEGON HTS MI 49443 <i>Facility ID:</i> 00014541 <i>Leak ID / Release Status:</i> C-1389-85 Closed	WNW	0.48 / 2,526.97	-2	79
37	WASTE	VERSITILE FAB	2708 9TH ST MUSKEGON HEIGHTS MI 49444	NW	0.48 / 2,546.41	-3	80
38	BEA	210 E. Broadway Avenue	210 E. Broadway Avenue MI	ENE	0.48 / 2,551.73	-3	80
38	BEA	210 E. Broadway Avenue	210 E. Broadway Avenue MI	ENE	0.48 / 2,551.73	-3	80
38	BEA	210 East Broadway	210 East Broadway MI 49444	ENE	0.48 / 2,551.73	-3	80
38	BEA	210 East Broadway	210 East Broadway MI	ENE	0.48 / 2,551.73	-3	80
38	BEA	210 East Broadway	210 East Broadway MI	ENE	0.48 / 2,551.73	-3	80
38	BEA	210 East Broadway Avenue	210 East Broadway Avenue MI	ENE	0.48 / 2,551.73	-3	81
38	BEA	210 East Broadway Avenue	210 East Broadway Avenue MI	ENE	0.48 / 2,551.73	-3	81

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>38</u>	SHWS	210 E Broadway	210 E. Broadway Muskegon MI 49444	ENE	0.48 / 2,551.73	-3	<u>81</u>
<u>38</u>	WASTE	TOOLING TECHNOLOGIES INTERNATIONAL	210 E BROADWAY AVE MUSKEGON MI 49444	ENE	0.48 / 2,551.73	-3	<u>81</u>
<u>39</u>	WASTE	CORGAN GARAGE	3301 MERRIAM ST MUSKEGON HEIGHTS MI 49444	SE	0.49 / 2,564.45	-23	<u>81</u>
<u>40</u>	BEA	Lift-Tech International, Inc.	414 West Broadway Avenue MI	WNW	0.49 / 2,595.18	-2	<u>81</u>
<u>40</u>	BEA	414 W Broadway Avenue	414 W Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	-2	<u>82</u>
<u>40</u>	BEA	414 West Broadway Avenue	414 West Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	-2	<u>82</u>
<u>40</u>	BEA	414 West Broadway Avenue	414 West Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	-2	<u>82</u>
<u>40</u>	PCB	LIFT-TECH INTERNATIONAL	414 WEST BROADWAY AVENUE MUSKEGON MI 49444	WNW	0.49 / 2,595.18	-2	<u>82</u>
<u>40</u>	WASTE	YALE LIFT TECH	414 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	WNW	0.49 / 2,595.18	-2	<u>82</u>
<u>41</u>	BEA	2608 Sanford Street	2608 Sanford Street MI 49444	N	0.51 / 2,676.68	-1	<u>82</u>
<u>41</u>	BEA	2608 Sanford Street	2608 Sanford Street MI 49444	N	0.51 / 2,676.68	-1	<u>83</u>
<u>42</u>	BEA	100 Seaway Drive	100 Seaway Drive MI 49444	S	0.54 / 2,841.51	-17	<u>83</u>
<u>43</u>	BEA	Valu Inn Motel	150 Seaway Drive MI	S	0.54 / 2,859.81	-13	<u>83</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>44</u>	BEA	80 East Seaway Drive	80 East Seaway Drive (Old Peck Street Landfill) MI	SSE	0.55 / 2,914.49	-39	<u>83</u>
<u>44</u>	BEA	80 East Seaway Drive	80 East Seaway Drive (Old Peck Street Landfill) MI	SSE	0.55 / 2,914.49	-39	<u>83</u>
<u>44</u>	SHWS	Peck Street. Landfill	Peck Street & Seaway Drive Muskegon Heights MI 49444	SSE	0.55 / 2,914.49	-39	<u>83</u>
<u>45</u>	BEA	131 Seaway Drive	131 Seaway Drive MI 49444	S	0.56 / 2,951.27	-18	<u>84</u>
<u>45</u>	BEA	131 Seaway Drive	131 Seaway Drive MI	S	0.56 / 2,951.27	-18	<u>84</u>
<u>46</u>	DELISTED SHWS	Ashendorf Service Station (Former)	2545 Peck Street Muskegon Heights MI 49444	NNE	0.57 / 3,002.82	-1	<u>84</u>
<u>47</u>	BEA	82, 84 & 86 East Seaway Drive	82, 84 & 86 East Seaway Drive MI	SSE	0.57 / 3,010.28	-44	<u>84</u>
<u>48</u>	BEA	274 West Sherman Boulevard	274 West Sherman Boulevard MI 49444	NNW	0.58 / 3,050.22	-4	<u>84</u>
<u>49</u>	BEA	274 W Sherman/2529 7th/2532 8th Streets	274 W Sherman Blvd & 2529 7th Street 2532 8th Street MI 49444	NNW	0.58 / 3,066.36	-4	<u>85</u>
<u>50</u>	SHWS	2536 Peck Street	2536 Peck Street Muskegon Heights MI 49444	NNE	0.58 / 3,068.29	-1	<u>85</u>
<u>51</u>	BEA	2632 Park Street	2632 Park Street MI	NW	0.58 / 3,081.85	-4	<u>85</u>
<u>52</u>	BEA	267 Seminole Road (See Comments)	267 Seminole Road MI 49444	SSW	0.59 / 3,115.93	-1	<u>85</u>
<u>53</u>	BEA	Former Universal Camshaft	350 E Broadway MI 49444	ENE	0.59 / 3,132.05	-3	<u>85</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>53</u>	BEA	Former Universal Camshaft	350 E. Broadway MI 49444	ENE	0.59 / 3,132.05	-3	<u>86</u>
<u>54</u>	BEA	Eastowne of Norton Shores	211 Seaway Drive, Unit 6 MI 49444	SSW	0.61 / 3,194.80	-6	<u>86</u>
<u>54</u>	BEA	211 Seaway Drive	211 Seaway Drive MI 49444	SSW	0.61 / 3,194.80	-6	<u>86</u>
<u>54</u>	SHWS	Eastowne Development	Seminole Rd/Seaway Drive Norton Shores MI 49444	SSW	0.61 / 3,194.80	-6	<u>86</u>
<u>55</u>	RCRA CORRACTS	TRICIL ENVIRONMENTAL SERVICES	3030 WOOD ST MUSKEGON HEIGHTS MI 49444	E	0.61 / 3,216.78	-13	<u>86</u>
<u>56</u>	BEA	2620 Park Street	2620 Park Street MI 49444	NW	0.61 / 3,221.06	-5	<u>98</u>
<u>57</u>	SHWS	Muskegon Heights WWTP - Wood Street	3030 - 3124 Wood Street Muskegon Heights MI 49444	E	0.62 / 3,255.35	-28	<u>99</u>
<u>58</u>	SHWS	Muskegon Heights DTE MGP Site	350 Broadway Muskegon Heights MI	ENE	0.62 / 3,263.99	-3	<u>99</u>
<u>59</u>	SHWS	City of Muskegon Heights DPW	3124 Wood Street Muskegon Heights MI 49444	ESE	0.62 / 3,293.28	-37	<u>99</u>
<u>60</u>	BEA	3540 Mona Kai (Thompson Landfill)	3540 Mona Kai MI	SSW	0.64 / 3,362.72	-5	<u>99</u>
<u>61</u>	BEA	Thompson Landfill	3588-3593 Mona Kai MI	SSW	0.64 / 3,378.56	-16	<u>99</u>
<u>62</u>	BEA	267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	-21	<u>99</u>
<u>62</u>	BEA	267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	-21	<u>100</u>
<u>62</u>	BEA	267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	-21	<u>100</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>62</u>	BEA	267 Seminole Drive	267 Seminole Drive MI	SSW	0.64 / 3,387.36	-21	<u>100</u>
<u>63</u>	BEA	255 Seminole (Thompson Landfill)	255 Seminole MI	SSW	0.64 / 3,392.76	-4	<u>100</u>
<u>63</u>	BEA	255 Seminole Drive	255 Seminole Drive MI	SSW	0.64 / 3,392.76	-4	<u>100</u>
<u>63</u>	BEA	255 Seminole Drive	255 Seminole Drive (Thompson Landfill) MI	SSW	0.64 / 3,392.76	-4	<u>100</u>
<u>63</u>	BEA	255 Seminole Road	255 Seminole Road MI 49444	SSW	0.64 / 3,392.76	-4	<u>101</u>
<u>64</u>	SHWS	Thompson Inc. LF	Seminole Rd. Norton Shores MI 49441	S	0.64 / 3,393.84	-12	<u>101</u>
<u>65</u>	BEA	2724 Riordan Street	2724 Riordan Street MI 49444	ENE	0.65 / 3,457.49	-4	<u>101</u>
<u>65</u>	BEA	2724 Riordan Street	2724 Riordan Street MI 49444	ENE	0.65 / 3,457.49	-4	<u>101</u>
<u>65</u>	SHWS	2724 Riordan Street	2724 Riordan Street Muskegon Heights MI 49444	ENE	0.65 / 3,457.49	-4	<u>101</u>
<u>66</u>	BEA	2501 Peck Street	2501 Peck Street MI 49444	N	0.66 / 3,489.33	-1	<u>102</u>
<u>67</u>	BEA	2625 Temple Street	2625 Temple Street MI 49444	NW	0.66 / 3,505.75	-4	<u>102</u>
<u>68</u>	BEA	2546 Park Street	2546 Park Street MI	NNW	0.69 / 3,621.78	-6	<u>102</u>
<u>69</u>	BEA	Unit 4, Eastowne of Norton Shores	Seminole Road and Mona Kai Blvd. MI 49444	SSW	0.69 / 3,629.06	-8	<u>102</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>70</u>	BEA	481 West Sherman Blvd.	481 West Sherman Blvd. MI 49444	NW	0.69 / 3,643.84	-5	<u>102</u>
<u>70</u>	BEA	481 West Sherman Blvd.	481 West Sherman Blvd. MI 49444	NW	0.69 / 3,643.84	-5	<u>102</u>
<u>71</u>	BEA	2525 Park Street	2525 Park Street MI 49444	NNW	0.71 / 3,732.11	-6	<u>103</u>
<u>72</u>	BEA	480 West Sherman Boulevard	480 West Sherman Boulevard MI 49444	NW	0.71 / 3,735.30	-5	<u>103</u>
<u>72</u>	SHWS	West Sherman Avenue	480 West Sherman Muskegon Heights MI 49444	NW	0.71 / 3,735.30	-5	<u>103</u>
<u>73</u>	DELISTED SHWS	Bennett Pump	2740 Wood St Muskegon Heights MI 49444- 2258	ENE	0.71 / 3,746.24	-4	<u>103</u>
<u>74</u>	BEA	2524 Park Street	2524 Park Street MI 49444	NNW	0.72 / 3,813.36	-6	<u>103</u>
<u>74</u>	BEA	2524 Park Street	2524 Park Street MI 49444	NNW	0.72 / 3,813.36	-6	<u>103</u>
<u>75</u>	BEA	431 East Broadway Avenue	431 East Broadway Avenue MI 49444	ENE	0.75 / 3,948.47	-3	<u>104</u>
<u>75</u>	BEA	431 East Broadway Avenue	431 East Broadway Avenue MI 49444	ENE	0.75 / 3,948.47	-3	<u>104</u>
<u>76</u>	BEA	580 WEST SHERMAN BOULEVARD	580 WEST SHERMAN BOULEVARD MI 49444	NW	0.80 / 4,234.12	-5	<u>104</u>
<u>76</u>	BEA	580 WEST SHERMAN BOULEVARD	580 WEST SHERMAN BOULEVARD MI 49444	NW	0.80 / 4,234.12	-5	<u>104</u>
<u>77</u>	BEA	2984 Henry Street	2984 Henry Street MI	W	0.81 / 4,267.45	-4	<u>104</u>
<u>77</u>	BEA	2984 Henry Street	2984 Henry Street MI	W	0.81 / 4,267.45	-4	<u>105</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>78</u>	BEA	3007/3009 Henry Street	3007/3009 Henry Street MI 49441	W	0.81 / 4,276.03	-4	<u>105</u>
<u>79</u>	BEA	2906 Henry Street	2906 Henry Street MI 49441	W	0.82 / 4,303.68	-4	<u>105</u>
<u>80</u>	BEA	Former Clark Retail #1193	2906 South Henry Street MI	W	0.82 / 4,319.17	-4	<u>105</u>
<u>81</u>	BEA	700 West Norton Avenue	700 West Norton Avenue MI 49441	WSW	0.83 / 4,381.79	-1	<u>105</u>
<u>82</u>	BEA	2701 McIlwraith	2701 McIlwraith MI 49444	ENE	0.83 / 4,401.53	-4	<u>105</u>
<u>82</u>	BEA	2701 McIlwraith	2701 McIlwraith MI 49444	ENE	0.83 / 4,401.53	-4	<u>106</u>
<u>82</u>	SHWS	2701 McIlwraith	2701 McIlwraith Muskegon Heights MI 49444	ENE	0.83 / 4,401.53	-4	<u>106</u>
<u>83</u>	BEA	3194 Henry Street	3194 Henry Street MI 49441	WSW	0.84 / 4,436.70	-4	<u>106</u>
<u>84</u>	BEA	715 West Norton Avenue	715 West Norton Avenue MI 49441	WSW	0.85 / 4,487.39	-2	<u>106</u>
<u>85</u>	BEA	3285 Henry Street	3285 Henry Street MI	WSW	0.87 / 4,567.30	-3	<u>106</u>
<u>86</u>	BEA	540, 546 & 550 West Hume Avenue	540, 546 & 550 West Hume Avenue MI	NW	0.87 / 4,582.65	-8	<u>106</u>
<u>86</u>	BEA	540, 546 & 550 West Hume Avenue	540, 546 & 550 West Hume Avenue MI	NW	0.87 / 4,582.65	-8	<u>107</u>
<u>87</u>	BEA	3275 Henry Street	3275 Henry Street MI 49441	WSW	0.87 / 4,584.92	-2	<u>107</u>

Map Key	DB	Company/Site Name	Address	Direction	Distance (mi/ft)	Elev Diff (ft)	Page Number
<u>88</u>	BEA	3295 Henry Street, Outlot B	3295 Henry Street, Outlot B MI 49441	WSW	0.88 / 4,636.40	-2	<u>107</u>
<u>88</u>	BEA	3295 Henry Street	3295 Henry Street MI 49441	WSW	0.88 / 4,636.40	-2	<u>107</u>
<u>89</u>	BEA	2637 Emerson Blvd.	2637 Emerson Blvd. MI	WNW	0.88 / 4,637.48	-5	<u>107</u>
<u>90</u>	BEA	560 East Broadway Avenue	560 East Broadway Avenue MI 49444	ENE	0.89 / 4,675.94	-16	<u>108</u>
<u>91</u>	SHWS	Webb Chemical	2708 Jarman Street Muskegon Heights MI 49444	ENE	0.89 / 4,677.76	-5	<u>108</u>
<u>92</u>	SHWS	West Heights Development	Hovey/Hume Avenue Muskegon Heights MI	NNW	0.90 / 4,761.16	-9	<u>108</u>
<u>93</u>	BEA	CWC Textron #3	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	-2	<u>108</u>
<u>93</u>	BEA	Rite Aid Store #21320-01 (Proposed)	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	-2	<u>108</u>
<u>93</u>	BEA	Rite Aid Store #4977	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	-2	<u>108</u>
<u>93</u>	BEA	2672 HENRY STREET	2672 HENRY STREET MI 49441	WNW	0.90 / 4,766.43	-2	<u>109</u>
<u>93</u>	BEA	2672 Henry Street	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	-2	<u>109</u>
<u>93</u>	SHWS	CWC Textron Plant No. 3	2672 Henry Street Muskegon MI 49441	WNW	0.90 / 4,766.43	-2	<u>109</u>
<u>94</u>	BEA	2675 and 2695 Henry Street	2675 and 2695 Henry Street MI 49441	WNW	0.91 / 4,781.42	-2	<u>109</u>
<u>94</u>	BEA	2675 & 2695 Henry Street	2675 & 2695 Henry Street (formerly 875 West Sherman Blvd) MI 49441	WNW	0.91 / 4,781.42	-2	<u>109</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>95</u>	BEA	2685 Henry Street	2685 Henry Street MI 49441	WNW	0.91 / 4,813.96	-3	<u>109</u>
<u>96</u>	BEA	Amoco Gas & Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	-3	<u>110</u>
<u>96</u>	BEA	Amoco Gas N Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	-3	<u>110</u>
<u>96</u>	BEA	Amoco Gas N Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	-3	<u>110</u>
<u>97</u>	BEA	2685 Henry Street	2685 Henry Street MI 49441	WNW	0.91 / 4,819.85	-3	<u>110</u>
<u>98</u>	BEA	3385 S. Henry Street	3385 S. Henry Street MI	WSW	0.92 / 4,868.82	-4	<u>110</u>
<u>99</u>	BEA	3385 Henry Street	3385 Henry Street MI 49441	WSW	0.93 / 4,894.52	-4	<u>110</u>
<u>99</u>	BEA	3385 Henry Street	3385 Henry Street MI 49441	WSW	0.93 / 4,894.52	-4	<u>111</u>
<u>100</u>	BEA	2703 Henry Street	2703 Henry Street (Advance Auto Parts) MI	WNW	0.93 / 4,909.42	-2	<u>111</u>
<u>100</u>	BEA	2703 Henry Street	2703 Henry Street MI	WNW	0.93 / 4,909.42	-2	<u>111</u>
<u>101</u>	BEA	2628 Henry Street	2628 Henry Street MI 49441	WNW	0.95 / 5,029.62	-4	<u>111</u>
<u>101</u>	BEA	2628 Henry Street	2628 Henry Street MI 49441	WNW	0.95 / 5,029.62	-4	<u>111</u>
<u>102</u>	BEA	2623 Jarman Street	2623 Jarman Street MI 49444	ENE	0.95 / 5,036.87	-4	<u>112</u>

<i>Map Key</i>	<i>DB</i>	<i>Company/Site Name</i>	<i>Address</i>	<i>Direction</i>	<i>Distance (mi/ft)</i>	<i>Elev Diff (ft)</i>	<i>Page Number</i>
<u>103</u>	BEA	Outlot G, Former CWC/Texttron Plant #3	Muskegon Crossings Development Henry Street & Sherman Blvd. MI	NW	0.97 / 5,135.46	-5	<u>112</u>
<u>104</u>	BEA	936 Oak Ridge Road	936 Oak Ridge Road MI 49441	WNW	0.98 / 5,187.76	-3	<u>112</u>
<u>104</u>	SHWS	936 Oak Ridge Road	936 Oak Ridge Road Roosevelt Park MI 49441	WNW	0.98 / 5,187.76	-3	<u>112</u>
<u>105</u>	BEA	2300/2320 Park Street	2300/2320 Park Street MI 49444	NNW	0.98 / 5,200.56	-4	<u>112</u>

Executive Summary: Summary by Data Source

Standard

Federal

SEMS ARCHIVE - SEMS List 8R Archive Sites

A search of the SEMS ARCHIVE database, dated Aug 13, 2018 has found that there are 1 SEMS ARCHIVE site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	19

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

A search of the CERCLIS database, dated Oct 25, 2013 has found that there are 1 CERCLIS site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	19

CERCLIS NFRAP - CERCLIS - No Further Remedial Action Planned

A search of the CERCLIS NFRAP database, dated Oct 25, 2013 has found that there are 1 CERCLIS NFRAP site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
BROWN-MORSE CO	110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	NE	0.35 / 1,863.94	19

RCRA CORRACTS - RCRA CORRACTS-Corrective Action

A search of the RCRA CORRACTS database, dated Aug 2, 2018 has found that there are 1 RCRA CORRACTS site(s) within approximately 1.00 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TRICIL ENVIRONMENTAL SERVICES	3030 WOOD ST MUSKEGON HEIGHTS MI 49444	E	0.61 / 3,216.78	55

RCRA TSD - RCRA non-CORRACTS TSD Facilities

A search of the RCRA TSD database, dated Aug 2, 2018 has found that there are 1 RCRA TSD site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
MEIER CLEANERS INC	2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	NE	0.39 / 2,083.56	26

RCRA NON GEN - RCRA Non-Generators

A search of the RCRA NON GEN database, dated Aug 2, 2018 has found that there are 1 RCRA NON GEN site(s) within approximately 0.25 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WEST MICHIGAN ENFORCEMENT	2920 SANFORD ST MUSKEGON MI 49444	NE	0.12 / 622.53	1

FED BROWNFIELDS - The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database

A search of the FED BROWNFIELDS database, dated Feb 20, 2018 has found that there are 3 FED BROWNFIELDS site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Alaska Refrigerator Co. & Borg	150 W. Broadway Ave. Muskegon Heights MI	NNW	0.28 / 1,452.32	9

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
ANCOR Corporation	339 W. Broadway Avenue Muskegon Heights MI	NW	0.40 / 2,107.33	27
Security Steel Craft Corp	2636 Sanford St. Muskegon Heights MI	N	0.46 / 2,426.38	34

State

SHWS - Part 201 Site List

A search of the SHWS database, dated Sep 17, 2018 has found that there are 18 SHWS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Laboratory Furniture (Former)	150 West Broadway Avenue Muskegon Heights MI 49444	NNW	0.28 / 1,452.32	9

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Rose Baker	251 W Broadway Ave Muskegon Hts MI 494442048	NW	0.33 / 1,744.23	<u>16</u>
Ashendorf Auto Parts (Former)	15 East Center Street Muskegon Heights MI 49444	NNE	0.35 / 1,869.31	<u>20</u>
210 E Broadway	210 E. Broadway Muskegon MI 49444	ENE	0.48 / 2,551.73	<u>38</u>
Peck Street. Landfill	Peck Street & Seaway Drive Muskegon Heights MI 49444	SSE	0.55 / 2,914.49	<u>44</u>
2536 Peck Street	2536 Peck Street Muskegon Heights MI 49444	NNE	0.58 / 3,068.29	<u>50</u>
Eastowne Development	Seminole Rd/Seaway Drive Norton Shores MI 49444	SSW	0.61 / 3,194.80	<u>54</u>
Muskegon Heights WWTP - Wood Street	3030 - 3124 Wood Street Muskegon Heights MI 49444	E	0.62 / 3,255.35	<u>57</u>
Muskegon Heights DTE MGP Site	350 Broadway Muskegon Heights MI	ENE	0.62 / 3,263.99	<u>58</u>
City of Muskegon Heights DPW	3124 Wood Street Muskegon Heights MI 49444	ESE	0.62 / 3,293.28	<u>59</u>
Thompson Inc. LF	Seminole Rd. Norton Shores MI 49441	S	0.64 / 3,393.84	<u>64</u>
2724 Riordan Street	2724 Riordan Street Muskegon Heights MI 49444	ENE	0.65 / 3,457.49	<u>65</u>
West Sherman Avenue	480 West Sherman Muskegon Heights MI 49444	NW	0.71 / 3,735.30	<u>72</u>
2701 McIlwraith	2701 McIlwraith Muskegon Heights MI 49444	ENE	0.83 / 4,401.53	<u>82</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Webb Chemical	2708 Jarman Street Muskegon Heights MI 49444	ENE	0.89 / 4,677.76	<u>91</u>
West Heights Development	Hovey/Hume Avenue Muskegon Heights MI	NNW	0.90 / 4,761.16	<u>92</u>
CWC Textron Plant No. 3	2672 Henry Street Muskegon MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
936 Oak Ridge Road	936 Oak Ridge Road Roosevelt Park MI 49441	WNW	0.98 / 5,187.76	<u>104</u>

DELISTED SHWS - Delisted Hazardous and BEA Sites

A search of the DELISTED SHWS database, dated Sep 17, 2018 has found that there are 4 DELISTED SHWS site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
2812-2814 Peck Street	2812-2814 Peck Street Muskegon Heights MI	NNE	0.26 / 1,387.14	<u>7</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Heritage Hospital (Former)	3014 Peck Street Muskegon Heights MI 49444	ENE	0.13 / 701.29	<u>2</u>
Ashendorf Service Station (Former)	2545 Peck Street Muskegon Heights MI 49444	NNE	0.57 / 3,002.82	<u>46</u>
Bennett Pump	2740 Wood St Muskegon Heights MI 49444-2258	ENE	0.71 / 3,746.24	<u>73</u>

WASTE - Waste Data System

A search of the WASTE database, dated Jul 31, 2018 has found that there are 27 WASTE site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
WEST MICHIGAN ENFORCEMENT	2920 SANFORD ST MUSKEGON MI 49444	NE	0.12 / 622.53	<u>1</u>

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
TEXTRON INC CWC CASTINGS DIV PLT #1	SANFORD ST & BROADWAY MUSKEGON HEIGHTS MI 49441	NNE	0.27 / 1,408.04	<u>8</u>
SANDFORD ST LDC	2761 PECK ST MUSKEGON HEIGHTS MI 49444	NNE	0.32 / 1,706.07	<u>14</u>
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
PATS SERVICE	3000 PECK ST MUSKEGON MI 49444	ENE	0.13 / 703.58	<u>3</u>
ESSINGS AUTOBODY	2928 PECK ST MUSKEGON MI 49444	ENE	0.15 / 797.63	<u>4</u>
COLUMBIA COURT	65 E COLUMBIA MUSKEGON HEIGHTS MI 49444	ENE	0.28 / 1,456.81	<u>10</u>
CLUCHEY RADIATOR SERVICE	201 W BROADWAY AVE MUSKEGON HEIGHTS MI 49441	NNW	0.30 / 1,574.60	<u>12</u>
T & J AUTO ELECTRIC	240 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NNW	0.32 / 1,664.14	<u>13</u>
WEST SIDE CAR WASH	250 W BROADWAY AVE MUSKEGON MI 49441	NW	0.33 / 1,727.22	<u>15</u>
LABORATORY FURNITURE MIDWEST INC	2736 6TH ST MUSKEGON HEIGHTS MI 49444	NNW	0.34 / 1,798.04	<u>17</u>
CHEMICAL WASTE MGMT INC	2724 PECK ST MUSKEGON MI 49444	NNE	0.36 / 1,911.06	<u>21</u>
CITY OF MUSKEGON HEIGHTS	2724 PECK ST MUSKEGON HEIGHTS MI 49444	NNE	0.36 / 1,911.06	<u>21</u>
JAMES CULLOM	2700 SANFORD ST MUSKEGON HEIGHTS MI 49444	N	0.37 / 1,942.13	<u>22</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
SHORELINE METAL FINISHING	325 W BROADWAY AVE MUSKEGON MI 49444	NW	0.38 / 2,015.91	<u>24</u>
FAMILY DOLLAR #1791	120 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NE	0.38 / 2,028.90	<u>25</u>
MEIER CLEANERS INC	2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	NE	0.39 / 2,083.56	<u>26</u>
FAMILY DOLLAR #1791	150 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	NE	0.41 / 2,178.82	<u>28</u>
GH IMAGING	2651 PECK ST MUSKEGON MI 49444	NNE	0.43 / 2,253.50	<u>29</u>
MUSKEGON WINDWOW CLEANING	2653 7TH ST MUSKEGON HEIGHTS MI 49444	NNW	0.44 / 2,342.67	<u>31</u>
AERO MFG	2724 9TH ST MUSKEGON HEIGHTS MI 49441	NW	0.45 / 2,361.69	<u>32</u>
MUSKEGON AREA TRANSIT SYSTEM	2624 6TH ST MUSKEGON MI 49444	NNW	0.45 / 2,387.28	<u>33</u>
SECURITY STEELCRAFT CORP	2636 SANFORD ST MUSKEGON MI 49444	N	0.46 / 2,426.38	<u>34</u>
EAGLE MACHINE TOOL CORP	200 E BROADWAY AVE MUSKEGON MI 49444	NE	0.46 / 2,442.28	<u>35</u>
VERSITILE FAB	2708 9TH ST MUSKEGON HEIGHTS MI 49444	NW	0.48 / 2,546.41	<u>37</u>
TOOLING TECHNOLOGIES INTERNATIONAL	210 E BROADWAY AVE MUSKEGON MI 49444	ENE	0.48 / 2,551.73	<u>38</u>
CORGAN GARAGE	3301 MERRIAM ST MUSKEGON HEIGHTS MI 49444	SE	0.49 / 2,564.45	<u>39</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
YALE LIFT TECH	414 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	WNW	0.49 / 2,595.18	40

LUST - Leaking Underground Storage Tank

A search of the LUST database, dated Jul 23, 2018 has found that there are 6 LUST site(s) within approximately 0.50 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Rita Duca	183 W Broadway Ave Muskegon MI 49444-2060	NNW	0.28 / 1,494.72	11
Facility ID: 50002543 Leak ID Release Status: C-0128-02 Closed				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Kamaljit Singhvirk	3000 Peck St Muskegon Heights MI 49444	ENE	0.13 / 703.58	3
Facility ID: 00012856 Leak ID Release Status: C-2128-91 Open				

Gte 6052-001	2908 Peck St Muskegon MI 49444-2034	NE	0.18 / 930.20	5
Facility ID: 00011261 Leak ID Release Status: C-1385-85 Closed, C-0921-96 Closed				

P & J Auto Elec	240 W Broadway Ave Muskegon Hts MI 49444-2002	NNW	0.32 / 1,664.14	13
Facility ID: 00002819 Leak ID Release Status: C-0265-97 Open				

West Sanford Village	2700 SANFORD ST MUSKEGON MI 49444	N	0.37 / 1,942.13	22
Facility ID: 00013319 Leak ID Release Status: C-1431-91 Closed				

Lift Tech International Inc	414 W BROADWAY MUSKEGON HTS MI 49443	WNW	0.48 / 2,526.97	36
Facility ID: 00014541 Leak ID Release Status: C-1389-85 Closed				

UST - Underground Storage Tank

A search of the UST database, dated Sep 13, 2017 has found that there are 3 UST site(s) within approximately 0.25 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Kamaljit Singhvirk	3000 PECK ST MUSKEGON HEIGHTS MI 49444-2933	ENE	0.13 / 703.58	3
Facility No: 12856 Tank ID Tank Status Removed Closed: 4 Removed from Ground 9/17/1991, 2 Removed from Ground 9/17/1991, 6 Removed from Ground 9/17/1991, 1 Removed from Ground 9/17/1991, 3 Removed from Ground 9/17/1991, 5 Removed from Ground 9/17/1991, 8 Currently In Use 7 Currently In Use				

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Gte 6052-001	2908 PECK ST MUSKEGON MI 49444-2034	NE	0.18 / 930.20	5
Facility No: 11261 Tank ID Tank Status Removed Closed: Removed from Ground 10/16/1996				
Derby Auto Service Center	2922 PECK ST MUSKEGON MI 49444-2034	NE	0.18 / 955.92	6
Facility No: 1311 Tank ID Tank Status Removed Closed: 1 Removed from Ground 1/29/1992				

Non Standard

Federal

PCB - Polychlorinated Biphenyl (PCB) Notifiers

A search of the PCB database, dated Nov 30, 2017 has found that there are 1 PCB site(s) within approximately 0.50 miles of the project property.

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
LIFT-TECH INTERNATIONAL	414 WEST BROADWAY AVENUE MUSKEGON MI 49444	WNW	0.49 / 2,595.18	40

State

BEA - Baseline Environmental Assessment

A search of the BEA database, dated Sep 17, 2018 has found that there are 107 BEA site(s) within approximately 1.00 miles of the project property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
183 W. Broadway	183 W Broadway MI	NNW	0.28 / 1,494.72	11
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
2719 Sanford Street	2719 Sanford Street MI 49444	N	0.34 / 1,801.30	18
2719 Sanford Street	2719 Sanford Street MI 49444	N	0.34 / 1,801.30	18
2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	23
2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	23

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	<u>23</u>
2701 Sanford Street	2701 Sanford Street MI 49444	N	0.38 / 1,982.79	<u>23</u>
2640 Peck Street	2640 Peck Street MI	NNE	0.43 / 2,290.13	<u>30</u>
2640 Peck Street	2640 Peck Street MI	NNE	0.43 / 2,290.13	<u>30</u>
2724 Ninth Street	2724 Ninth Street MI	NW	0.45 / 2,361.69	<u>32</u>
2624 - 6th Street	2624 - 6th Street MI	NNW	0.45 / 2,387.28	<u>33</u>
210 East Broadway	210 East Broadway MI	ENE	0.48 / 2,551.73	<u>38</u>
210 East Broadway Avenue	210 East Broadway Avenue MI	ENE	0.48 / 2,551.73	<u>38</u>
210 East Broadway Avenue	210 East Broadway Avenue MI	ENE	0.48 / 2,551.73	<u>38</u>
210 E. Broadway Avenue	210 E. Broadway Avenue MI	ENE	0.48 / 2,551.73	<u>38</u>
210 E. Broadway Avenue	210 E. Broadway Avenue MI	ENE	0.48 / 2,551.73	<u>38</u>
210 East Broadway	210 East Broadway MI 49444	ENE	0.48 / 2,551.73	<u>38</u>
210 East Broadway	210 East Broadway MI	ENE	0.48 / 2,551.73	<u>38</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Lift-Tech International, Inc.	414 West Broadway Avenue MI	WNW	0.49 / 2,595.18	<u>40</u>
414 W Broadway Avenue	414 W Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	<u>40</u>
414 West Broadway Avenue	414 West Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	<u>40</u>
414 West Broadway Avenue	414 West Broadway Avenue MI 49444	WNW	0.49 / 2,595.18	<u>40</u>
2608 Sanford Street	2608 Sanford Street MI 49444	N	0.51 / 2,676.68	<u>41</u>
2608 Sanford Street	2608 Sanford Street MI 49444	N	0.51 / 2,676.68	<u>41</u>
100 Seaway Drive	100 Seaway Drive MI 49444	S	0.54 / 2,841.51	<u>42</u>
Valu Inn Motel	150 Seaway Drive MI	S	0.54 / 2,859.81	<u>43</u>
80 East Seaway Drive	80 East Seaway Drive (Old Peck Street Landfill) MI	SSE	0.55 / 2,914.49	<u>44</u>
80 East Seaway Drive	80 East Seaway Drive (Old Peck Street Landfill) MI	SSE	0.55 / 2,914.49	<u>44</u>
131 Seaway Drive	131 Seaway Drive MI 49444	S	0.56 / 2,951.27	<u>45</u>
131 Seaway Drive	131 Seaway Drive MI	S	0.56 / 2,951.27	<u>45</u>
82, 84 & 86 East Seaway Drive	82, 84 & 86 East Seaway Drive MI	SSE	0.57 / 3,010.28	<u>47</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
274 West Sherman Boulevard	274 West Sherman Boulevard MI 49444	NNW	0.58 / 3,050.22	<u>48</u>
274 W Sherman/2529 7th/2532 8th Streets	274 W Sherman Blvd & 2529 7th Street 2532 8th Street MI 49444	NNW	0.58 / 3,066.36	<u>49</u>
2632 Park Street	2632 Park Street MI	NW	0.58 / 3,081.85	<u>51</u>
267 Seminole Road (See Comments)	267 Seminole Road MI 49444	SSW	0.59 / 3,115.93	<u>52</u>
Former Universal Camshaft	350 E Broadway MI 49444	ENE	0.59 / 3,132.05	<u>53</u>
Former Universal Camshaft	350 E. Broadway MI 49444	ENE	0.59 / 3,132.05	<u>53</u>
Eastowne of Norton Shores	211 Seaway Drive, Unit 6 MI 49444	SSW	0.61 / 3,194.80	<u>54</u>
211 Seaway Drive	211 Seaway Drive MI 49444	SSW	0.61 / 3,194.80	<u>54</u>
2620 Park Street	2620 Park Street MI 49444	NW	0.61 / 3,221.06	<u>56</u>
3540 Mona Kai (Thompson Landfill)	3540 Mona Kai MI	SSW	0.64 / 3,362.72	<u>60</u>
Thompson Landfill	3588-3593 Mona Kai MI	SSW	0.64 / 3,378.56	<u>61</u>
267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	<u>62</u>
267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	<u>62</u>

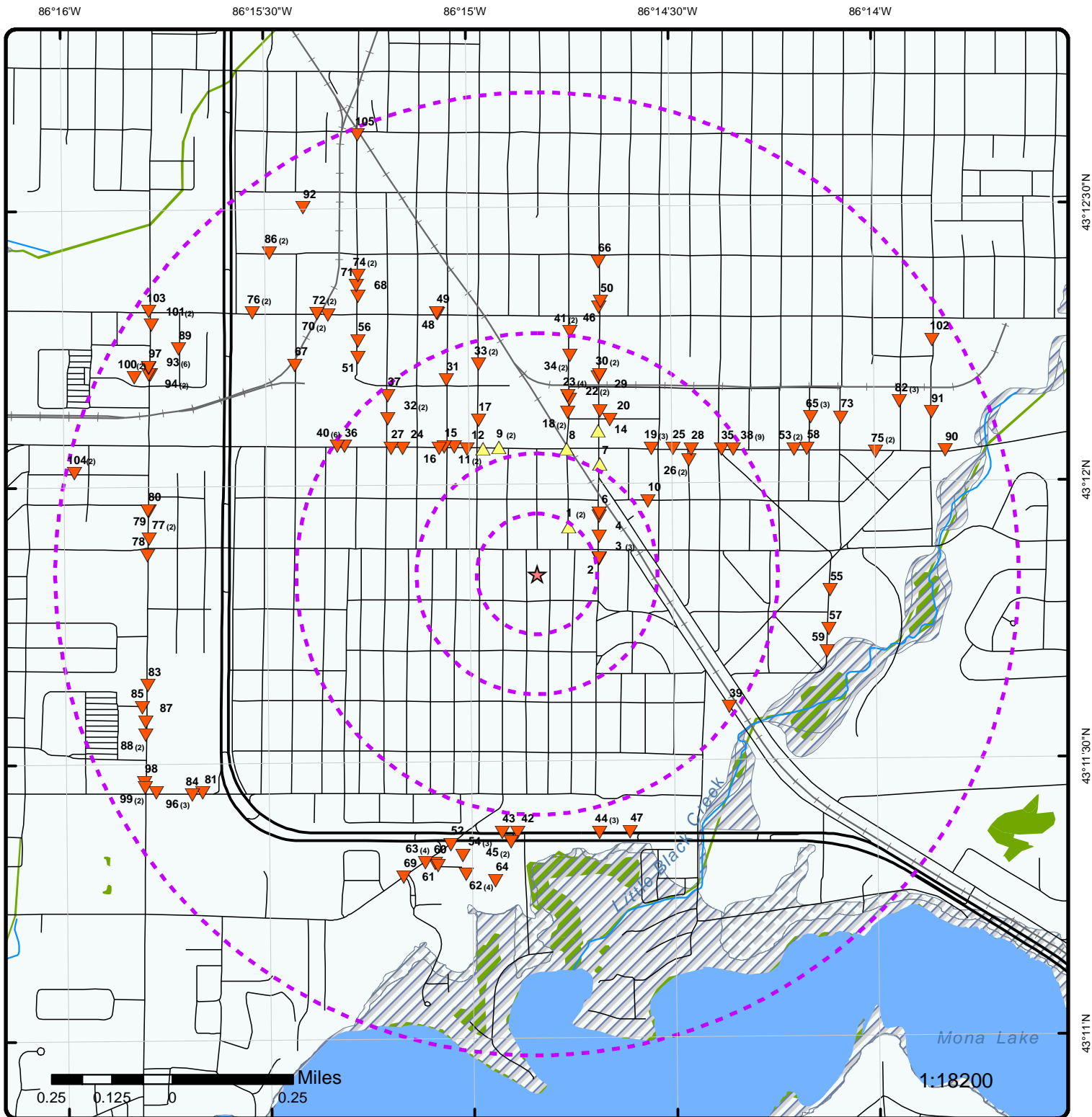
<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
267 Seminole - a portion of	267 Seminole - a portion of MI	SSW	0.64 / 3,387.36	<u>62</u>
267 Seminole Drive	267 Seminole Drive MI	SSW	0.64 / 3,387.36	<u>62</u>
255 Seminole (Thompson Landfill)	255 Seminole MI	SSW	0.64 / 3,392.76	<u>63</u>
255 Seminole Drive	255 Seminole Drive MI	SSW	0.64 / 3,392.76	<u>63</u>
255 Seminole Drive	255 Seminole Drive (Thompson Landfill) MI	SSW	0.64 / 3,392.76	<u>63</u>
255 Seminole Road	255 Seminole Road MI 49444	SSW	0.64 / 3,392.76	<u>63</u>
2724 Riordan Street	2724 Riordan Street MI 49444	ENE	0.65 / 3,457.49	<u>65</u>
2724 Riordan Street	2724 Riordan Street MI 49444	ENE	0.65 / 3,457.49	<u>65</u>
2501 Peck Street	2501 Peck Street MI 49444	N	0.66 / 3,489.33	<u>66</u>
2625 Temple Street	2625 Temple Street MI 49444	NW	0.66 / 3,505.75	<u>67</u>
2546 Park Street	2546 Park Street MI	NNW	0.69 / 3,621.78	<u>68</u>
Unit 4, Eastowne of Norton Shores	Seminole Road and Mona Kai Blvd. MI 49444	SSW	0.69 / 3,629.06	<u>69</u>
481 West Sherman Blvd.	481 West Sherman Blvd. MI 49444	NW	0.69 / 3,643.84	<u>70</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
481 West Sherman Blvd.	481 West Sherman Blvd. MI 49444	NW	0.69 / 3,643.84	<u>70</u>
2525 Park Street	2525 Park Street MI 49444	NNW	0.71 / 3,732.11	<u>71</u>
480 West Sherman Boulevard	480 West Sherman Boulevard MI 49444	NW	0.71 / 3,735.30	<u>72</u>
2524 Park Street	2524 Park Street MI 49444	NNW	0.72 / 3,813.36	<u>74</u>
2524 Park Street	2524 Park Street MI 49444	NNW	0.72 / 3,813.36	<u>74</u>
431 East Broadway Avenue	431 East Broadway Avenue MI 49444	ENE	0.75 / 3,948.47	<u>75</u>
431 East Broadway Avenue	431 East Broadway Avenue MI 49444	ENE	0.75 / 3,948.47	<u>75</u>
580 WEST SHERMAN BOULEVARD	580 WEST SHERMAN BOULEVARD MI 49444	NW	0.80 / 4,234.12	<u>76</u>
580 WEST SHERMAN BOULEVARD	580 WEST SHERMAN BOULEVARD MI 49444	NW	0.80 / 4,234.12	<u>76</u>
2984 Henry Street	2984 Henry Street MI	W	0.81 / 4,267.45	<u>77</u>
2984 Henry Street	2984 Henry Street MI	W	0.81 / 4,267.45	<u>77</u>
3007/3009 Henry Street	3007/3009 Henry Street MI 49441	W	0.81 / 4,276.03	<u>78</u>
2906 Henry Street	2906 Henry Street MI 49441	W	0.82 / 4,303.68	<u>79</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
Former Clark Retail #1193	2906 South Henry Street MI	W	0.82 / 4,319.17	<u>80</u>
700 West Norton Avenue	700 West Norton Avenue MI 49441	WSW	0.83 / 4,381.79	<u>81</u>
2701 McIlwraith	2701 McIlwraith MI 49444	ENE	0.83 / 4,401.53	<u>82</u>
2701 McIlwraith	2701 McIlwraith MI 49444	ENE	0.83 / 4,401.53	<u>82</u>
3194 Henry Street	3194 Henry Street MI 49441	WSW	0.84 / 4,436.70	<u>83</u>
715 West Norton Avenue	715 West Norton Avenue MI 49441	WSW	0.85 / 4,487.39	<u>84</u>
3285 Henry Street	3285 Henry Street MI	WSW	0.87 / 4,567.30	<u>85</u>
540, 546 & 550 West Hume Avenue	540, 546 & 550 West Hume Avenue MI	NW	0.87 / 4,582.65	<u>86</u>
540, 546 & 550 West Hume Avenue	540, 546 & 550 West Hume Avenue MI	NW	0.87 / 4,582.65	<u>86</u>
3275 Henry Street	3275 Henry Street MI 49441	WSW	0.87 / 4,584.92	<u>87</u>
3295 Henry Street, Outlot B	3295 Henry Street, Outlot B MI 49441	WSW	0.88 / 4,636.40	<u>88</u>
3295 Henry Street	3295 Henry Street MI 49441	WSW	0.88 / 4,636.40	<u>88</u>
2637 Emerson Blvd.	2637 Emerson Blvd. MI	WNW	0.88 / 4,637.48	<u>89</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
560 East Broadway Avenue	560 East Broadway Avenue MI 49444	ENE	0.89 / 4,675.94	<u>90</u>
CWC Textron #3	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
Rite Aid Store #21320-01 (Proposed)	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
Rite Aid Store #4977	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
2672 HENRY STREET	2672 HENRY STREET MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
2672 Henry Street	2672 Henry Street MI 49441	WNW	0.90 / 4,766.43	<u>93</u>
2675 and 2695 Henry Street	2675 and 2695 Henry Street MI 49441	WNW	0.91 / 4,781.42	<u>94</u>
2675 & 2695 Henry Street	2675 & 2695 Henry Street (formerly 875 West Sherman Blvd) MI 49441	WNW	0.91 / 4,781.42	<u>94</u>
2685 Henry Street	2685 Henry Street MI 49441	WNW	0.91 / 4,813.96	<u>95</u>
Amoco Gas & Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	<u>96</u>
Amoco Gas N Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	<u>96</u>
Amoco Gas N Go	782 W Norton Avenue MI	WSW	0.91 / 4,814.75	<u>96</u>
2685 Henry Street	2685 Henry Street MI 49441	WNW	0.91 / 4,819.85	<u>97</u>

<u>Lower Elevation</u>	<u>Address</u>	<u>Direction</u>	<u>Distance (mi/ft)</u>	<u>Map Key</u>
3385 S. Henry Street	3385 S. Henry Street MI	WSW	0.92 / 4,868.82	<u>98</u>
3385 Henry Street	3385 Henry Street MI 49441	WSW	0.93 / 4,894.52	<u>99</u>
3385 Henry Street	3385 Henry Street MI 49441	WSW	0.93 / 4,894.52	<u>99</u>
2703 Henry Street	2703 Henry Street (Advance Auto Parts) MI	WNW	0.93 / 4,909.42	<u>100</u>
2703 Henry Street	2703 Henry Street MI	WNW	0.93 / 4,909.42	<u>100</u>
2628 Henry Street	2628 Henry Street MI 49441	WNW	0.95 / 5,029.62	<u>101</u>
2628 Henry Street	2628 Henry Street MI 49441	WNW	0.95 / 5,029.62	<u>101</u>
2623 Jarman Street	2623 Jarman Street MI 49444	ENE	0.95 / 5,036.87	<u>102</u>
Outlot G, Former CWC/Textron Plant #3	Muskegon Crossings Development Henry Street & Sherman Blvd. MI	NW	0.97 / 5,135.46	<u>103</u>
936 Oak Ridge Road	936 Oak Ridge Road MI 49441	WNW	0.98 / 5,187.76	<u>104</u>
2300/2320 Park Street	2300/2320 Park Street MI 49444	NNW	0.98 / 5,200.56	<u>105</u>



Map : 1 Mile Radius

Order No: 20181022006

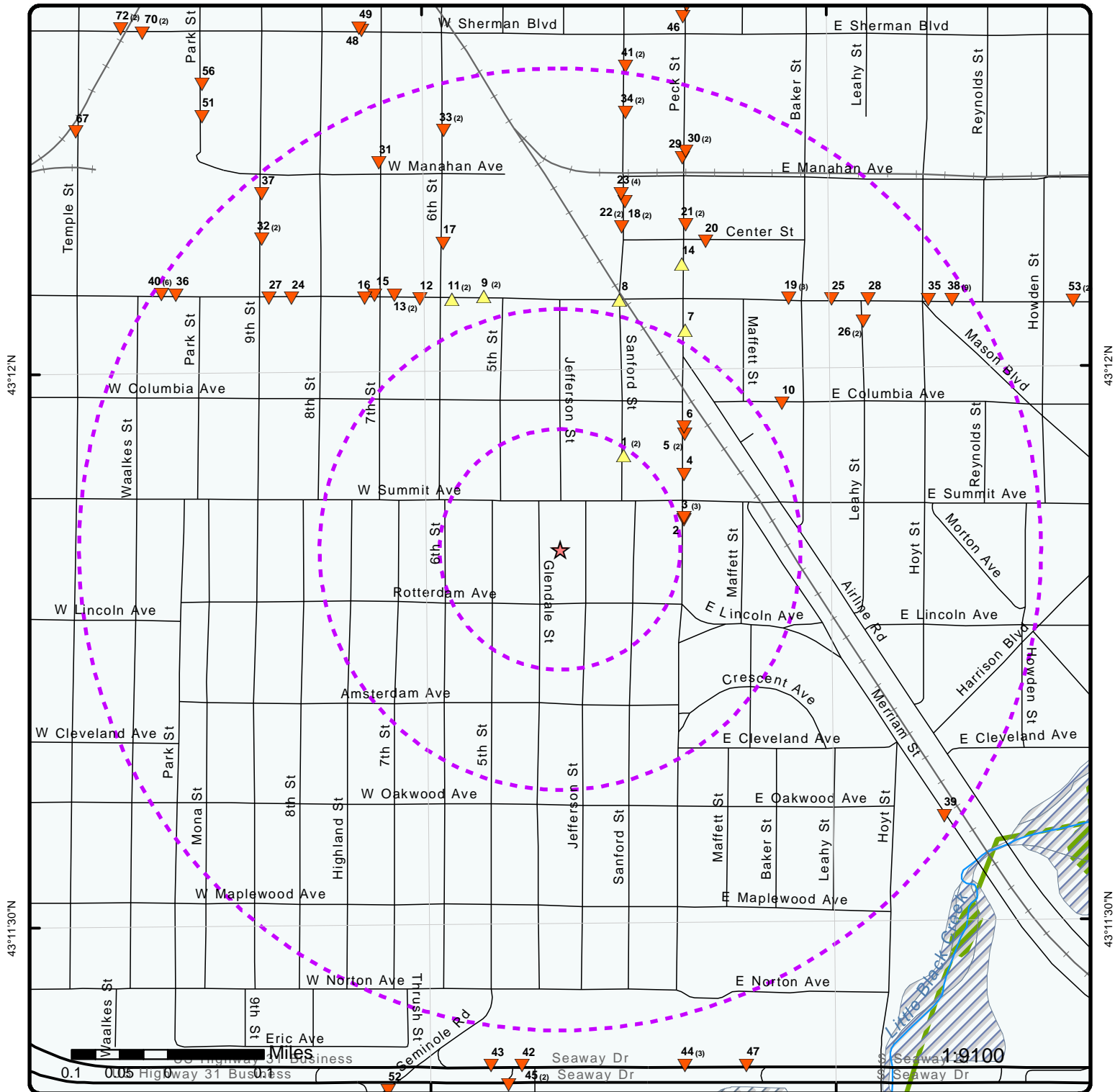
Address: 3001 Jefferson Street, Muskegon Heights, MI, 49444



★ Project Property	—+— Rails	▭ State Boundary	▨ FWS Special Designation Areas
▭ Buffer Outline	— Major Highways	▨ National Priority List Sites	▨ State Brownfield Sites
▲ Eris Sites with Higher Elevation	— Major Highways Ramps	▨ National Wetland	▨ State Brownfield Areas
▲ Eris Sites with Same Elevation	— Major Roads	▨ Indian Reserve Land	▨ State Superfund Areas:Dept. of Defense
▼ Eris Sites with Lower Elevation	— Major Roads Ramps	▨ Historic Fill	▨ State Superfund Areas:NPL
○ Eris Sites with Unknown Elevation	— Secondary Roads	▨ 100 Year Flood Zone	▨ WQARF Areas
▭ County Boundary	— Secondary Roads Ramps	▨ 500 Year Flood Zone	▨ Federal Lands: Dept. of Defense (owned/administered areas)
	— Local Roads and Ramps		

86°15'W

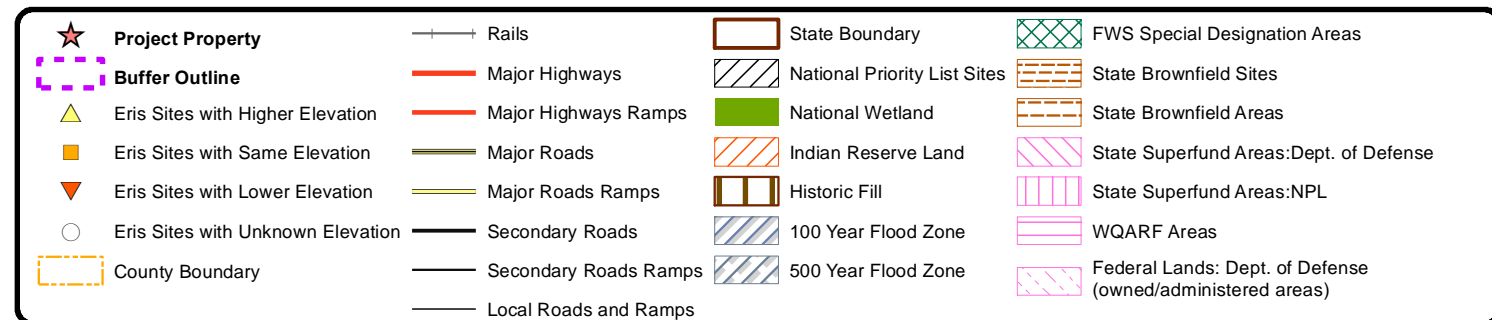
86°14'30"W

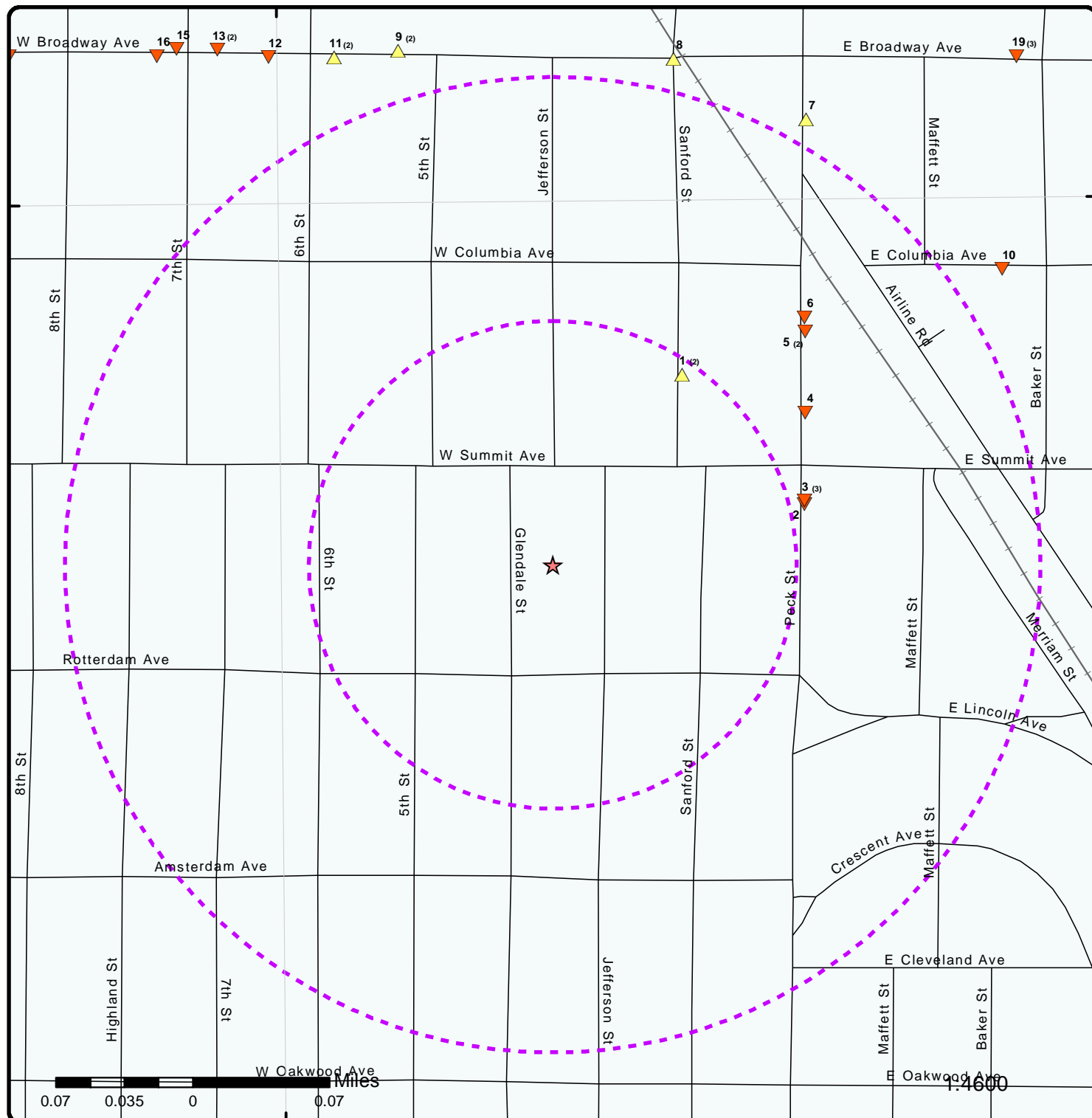


Map : 0.5 Mile Radius

Order No: 20181022006

Address: 3001 Jefferson Street, Muskegon Heights, MI, 49444

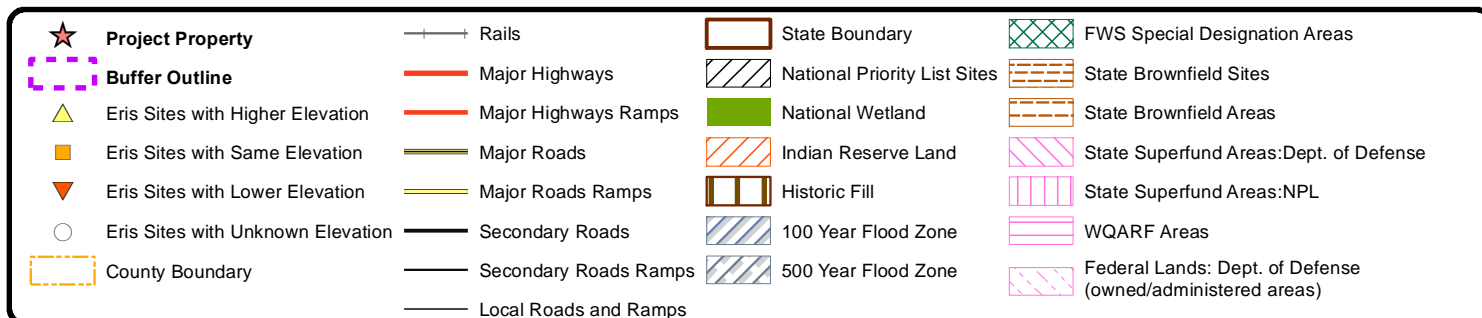




Map : 0.25 Mile Radius

Order No: 20181022006

Address: 3001 Jefferson Street, Muskegon Heights, MI, 49444



86°15'30"W

86°15'W

86°14'30"W

86°14'W

43°12'30"N

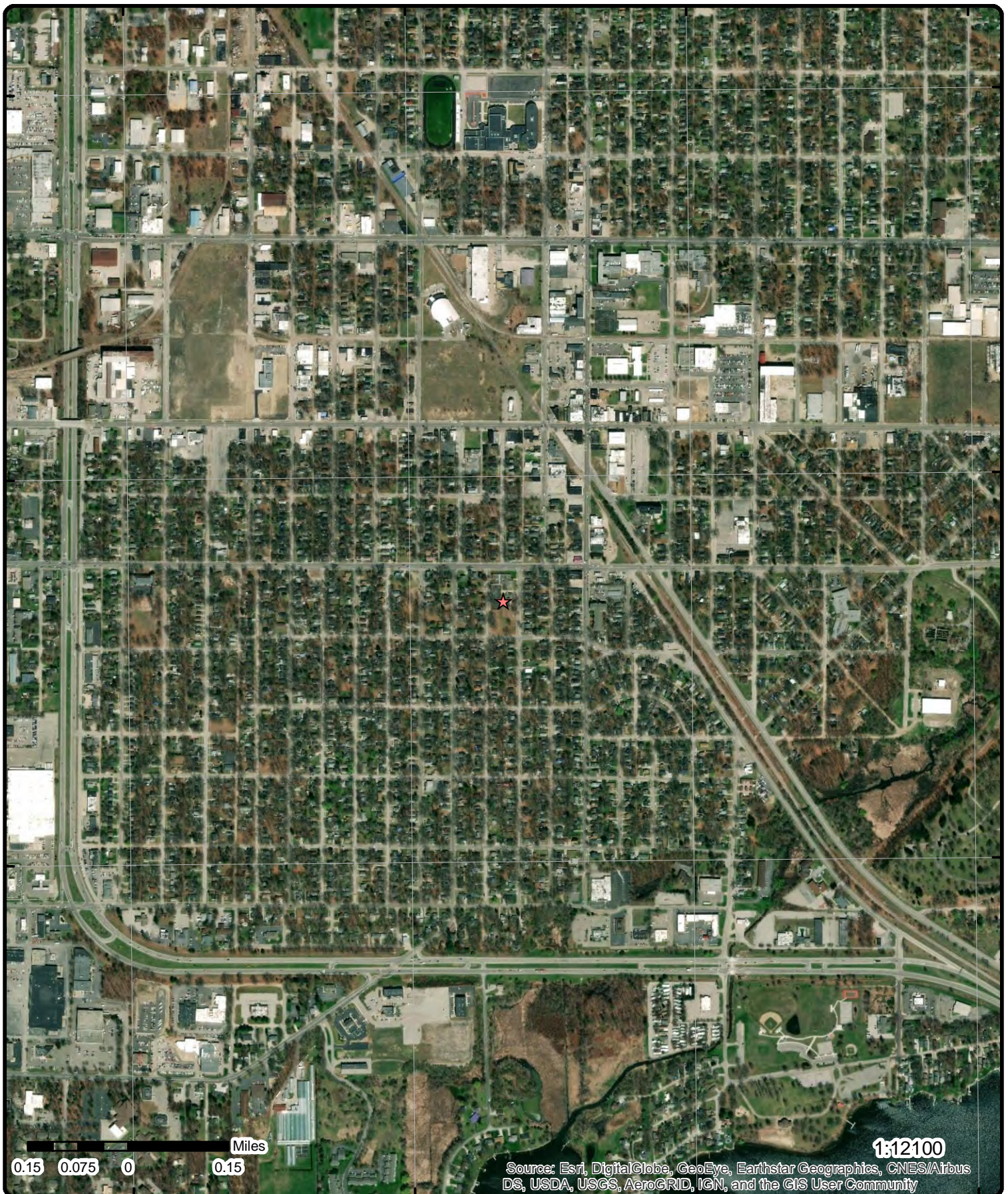
43°12'N

43°11'30"N

43°12'30"N

43°12'N

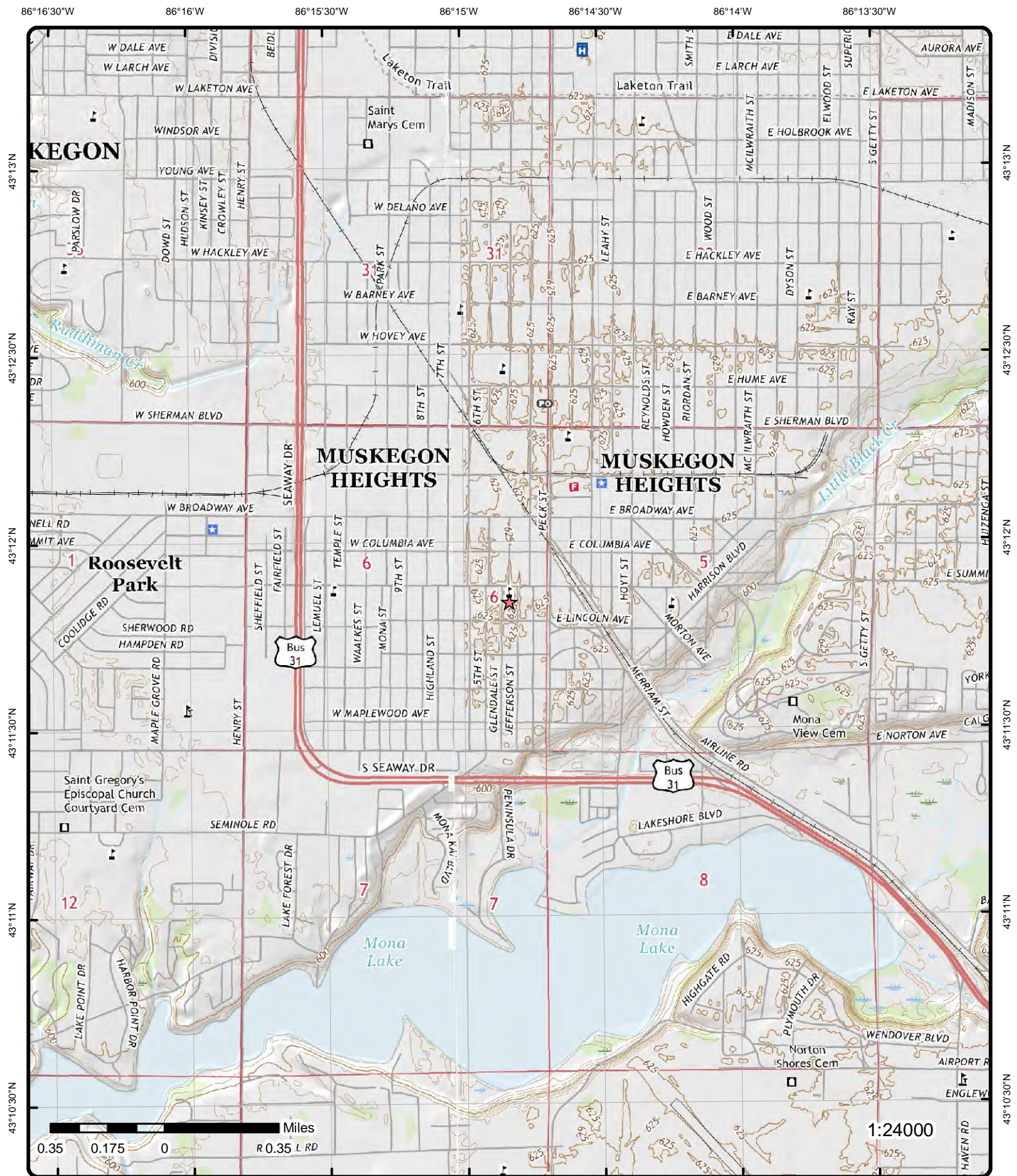
43°11'30"N

**Aerial (2015)****Address: 3001 Jefferson Street, Muskegon Heights, MI, 49444****Source:** ESRI World Imagery

Order No: 20181022006



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Topographic Map (2017)

Address: 3001 Jefferson Street, Muskegon Heights, MI, 49444

Quadrangle(s): Muskegon West, MI; Muskegon East, MI;

Source: USGS Topographic Map

Order No: 20181022006



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Detail Report

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	1 of 2	NE	0.12 / 622.53	629.27 / 0	WEST MICHIGAN ENFORCEMENT 2920 SANFORD ST MUSKEGON MI 49444	RCRA NON GEN

EPA Handler ID: MIK154694277
Gen Status Universe: No Report
Contact Name: RON WALTER
Contact Address: 2920 SANFORD ST, , MUSKEGON, MI, 49444, US
Contact Phone No and Ext: 231-336-7618
Contact Email:
Contact Country: US
County Name: MUSKEGON
EPA Region: 05
Land Type:
Receive Date: 20010919

Violation/Evaluation Summary

Note: NO RECORDS: As of Aug 2018, there are no Compliance Monitoring and Enforcement (violation) records associated with this facility (EPA ID).

Handler Summary

Full Mailing Info: 16222 FILLMORE ST, , WEST OLIVE, MI, 49460, US
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility: No
Onsite Burner Exemption: No
Furnace Exemption: No
Underground Injection Activity: No
Commercial TSD: No
Used Oil Transporter: No
Used Oil Transfer Facility: No
Used Oil Processor: No
Used Oil Refiner: No
Used Oil Burner: No
Used Oil Market Burner: No
Used Oil Spec Marketer: No

Hazardous Waste Handler Details

Sequence No: 1
Receive Date: 20010919
Handler Name: WEST MICHIGAN ENFORCEMENT
Generator Status Universe: No Report
Source Type: I

Waste Code Details

Hazardous Waste Code: D001
Waste Code Description: IGNITABLE WASTE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
1	2 of 2	NE	0.12 / 622.53	629.27 / 0	WEST MICHIGAN ENFORCEMENT 2920 SANFORD ST MUSKEGON MI 49444	WASTE

Site ID: MIK154694277
WDS ID: 464569
Legal Name: WEST MICHIGAN ENFORCEMENT
County: MUSKEGON

2	1 of 1	ENE	0.13 / 701.29	628.03 / -1	Heritage Hospital (Former) 3014 Peck Street Muskegon Heights MI 49444	DELISTED SHWS
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Facility ID: 61000310
Baseline Assess No:
Data Source: Part 201
Source:
Score Out of 48:
Score Date:
Overall Status:
Pollutant:
Original Source: SHWS
Record Date: 27-JAN-2017
County: Muskegon
Township: Muskegon Hts
District: Grand Rapids
Latitude: 43.19763
Longitude: -86.24482

3	1 of 3	ENE	0.13 / 703.58	628.03 / -1	Kamaljit Singhvirk 3000 Peck St Muskegon Heights MI 49444	LUST
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Facility ID: 00012856
Active Tanks:
Desc Category: Plant Entrance (Freight)
Facility Phone: (231) 733-1019
Owner Address: 3000 Peck St
Owner City: Muskegon Heights
Owner State: MI
Owner Zip: 49444
Owner Country: USA
Owner Contact:
Owner Phone: (231) 733-1019
Owner Name: Kamaljit Singh Virk/Pinky Inc
Facility Contact Person:
GIS Collection: GPS Code Meas. Standard Positioning Service SA Off
Data Source: DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search
Facility County: Muskegon
Facility District: Grand Rapids
Latitude: 43.1977750000
Longitude: -86.2443233300
Horizontal Datum: NAD83
Point Line Area: POINT
Accuracy: 10
Accuracy Unit: METERS
Date of Collection: 30-11-2001
Source: STATE OF MICHIGAN

DEQ LUST Open (Download)

Leak ID: C-2128-91
Release Status: Open
Release Date: Oct 11 1991
Release Closed Date:
Substance Released: Unknown
LUST Site Name: Pat Service Center

DEQ LUST Active Releases (Site Search)

Leak ID: C-2128-91
Release Status: Open
Closed Date:
Evaluation:
Discovery Date: 10/11/1991
Substance Released: Unknown
Land Use Restrict:
LUST Site Name: Pat Service Center

DEQ LUST Active Tanks (Site Search)

Tank ID: 4
Tank Status: Removed from Ground
Installation Date: 5/6/1971 12:00:00 AM
Substance Stored: Gasoline
Tank Release Detection:
Capacity in Gallons: 3000
Piping Type:
Impressed Device: No

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB		
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						
Tank ID:	5				Capacity in Gallons:	500		
Tank Status:	Removed from Ground				Piping Type:			
Installation Date:					Impressed Device:	No		
Substance Stored:		Used Oil						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						
Tank ID:	6				Capacity in Gallons:	500		
Tank Status:	Removed from Ground				Piping Type:			
Installation Date:					Impressed Device:	No		
Substance Stored:		Used Oil						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						
Tank ID:	2				Capacity in Gallons:	3000		
Tank Status:	Removed from Ground				Piping Type:			
Installation Date:	5/6/1971 12:00:00 AM				Impressed Device:	No		
Substance Stored:		Gasoline						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						
Tank ID:	3				Capacity in Gallons:	3000		
Tank Status:	Removed from Ground				Piping Type:			
Installation Date:	5/6/1971 12:00:00 AM				Impressed Device:	No		
Substance Stored:		Gasoline						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						
Tank ID:	7				Capacity in Gallons:	6000		
Tank Status:	Currently In Use				Piping Type:	Gravity Fed?		
Installation Date:	10/7/1991 12:00:00 AM				Impressed Device:	No		
Substance Stored:		Gasoline						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Automatic Tank Gauging						
Construction Material:		Automatic Line Leak Detectors,Line Tightness Testing						
Tank ID:	8				Capacity in Gallons:	10000		
Tank Status:	Currently In Use				Piping Type:	Gravity Fed?		
Installation Date:	10/7/1991 12:00:00 AM				Impressed Device:	No		
Substance Stored:		Gasoline						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Cathodically Protected,GEOFLEX						
Construction Material:		Cathodically Protected Steel						
Tank ID:	1				Capacity in Gallons:	2000		
Tank Status:	Removed from Ground				Piping Type:			
Installation Date:	5/6/1971 12:00:00 AM				Impressed Device:	No		
Substance Stored:		Gasoline						
Tank Release Detection:								
Piping Release Detection:								
Piping Material:		Galvanized Steel						
Construction Material:		Asphalt Coated or Bare Steel						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
3	2 of 3	ENE	0.13 / 703.58	628.03 / -1	Kamaljit Singhvirk 3000 PECK ST MUSKEGON HEIGHTS MI 49444-2933	UST

Facility No: 12856
Status: Active

Facility County: MUSKEGON
Facility State: MI

Active Tank Owner Information

Owner Name: Kamaljit Singh Virk/Pinky Inc
Owner Address: 3000 Peck St
Owner City: Muskegon Heights
Owner State: MI
Owner Zip: 49444
Owner Country:
Owner Phone: 2317331019

Active Tank Detail Information

Tank No: UTK-047684-15
Tank ID: 4
Tank Status: Removed from Ground
Removed Closed: 9/17/1991
Date of Install: 5/6/1971

Capacity: 3000
Compartments:
No of Compartments:
Product: Gasoline,

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:
Cathodically Prot:
Copper:
Double Wall:
Enviroflex:
Fiberglass Reinforced
Plastic:

Flexible Piping:
Galvanized Steel: CHECKED
Geo Flex:
Other:
Other Comment:
Unknown:

Active Piping Type

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:					Tank Been Repaired:
Concrete:					Lined Interior:
Double Walled:					Other:
Epoxy Coated Steel:					Polyeth Tank Jacket:
Excavation Liner:					Unknown:
Asphalt Coated or Bare Steel:	CHECKED				
Composite (Steel with Fbrglss):					
Fiberglass Reinforced Plastic:					
Desc of Other Construction:					

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	
Owner Phone:	2317331019

Active Tank Detail Information

Tank No:	UTK-072542-15	Capacity:	3000
Tank ID:	2	Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Removed Closed:	9/17/1991	Product:	Gasoline,
Date of Install:	5/6/1971		

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced Plastic:	Unknown:	

Active Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	Tank Been Repaired:
Concrete:	Lined Interior:
Double Walled:	Other:
Epoxy Coated Steel:	Polyeth Tank Jacket:
Excavation Liner:	Unknown:
Asphalt Coated or Bare Steel:	CHECKED
Composite (Steel with Fbrglss):	
Fiberglass Reinforced Plastic:	
Desc of Other Construction:	

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	
Owner Phone:	2317331019

Active Tank Detail Information

Tank No:	UTK-072557-15	Capacity:	500
Tank ID:	6	Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Removed Closed:	9/17/1991	Product:	Used Oil,
Date of Install:			

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced Plastic:	Unknown:	

Active Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	Tank Been Repaired:
Concrete:	Lined Interior:
Double Walled:	Other:
Epoxy Coated Steel:	Polyeth Tank Jacket:
Excavation Liner:	Unknown:
Asphalt Coated or Bare Steel:	CHECKED
Composite (Steel with Fbrglss):	
Fiberglass Reinforced Plastic:	
Desc of Other Construction:	

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner Phone: 2317331019

Active Tank Detail Information

Tank No:	UTK-001090-15	Capacity:	2000
Tank ID:	1	Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Removed Closed:	9/17/1991	Product:	Gasoline,
Date of Install:	5/6/1971		

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced	Unknown:	
Plastic:		

Active Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	Tank Been Repaired:
Concrete:	Lined Interior:
Double Walled:	Other:
Epoxy Coated Steel:	Polyeth Tank Jacket:
Excavation Liner:	Unknown:
Asphalt Coated or Bare Steel:	CHECKED
Composite (Steel with Fbrglss):	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Fiberglass Reinforced Plastic:
Desc of Other Construction:

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name: Kamaljit Singh Virk/Pinky Inc
Owner Address: 3000 Peck St
Owner City: Muskegon Heights
Owner State: MI
Owner Zip: 49444
Owner Country:
Owner Phone: 2317331019

Active Tank Detail Information

Tank No:	UTK-072546-15	Capacity:	3000
Tank ID:	3	Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Removed Closed:	9/17/1991	Product:	Gasoline,
Date of Install:	5/6/1971		

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced Plastic:	Unknown:	

Active Piping Type

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:					Tank Been Repaired:
Concrete:					Lined Interior:
Double Walled:					Other:
Epoxy Coated Steel:					Polyeth Tank Jacket:
Excavation Liner:					Unknown:
Asphalt Coated or Bare Steel:	CHECKED				
Composite (Steel with Fbrglss):					
Fiberglass Reinforced Plastic:					
Desc of Other Construction:					

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	
Owner Phone:	2317331019

Active Tank Detail Information

Tank No:	UTK-072552-15	Capacity:	500
Tank ID:	5	Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Removed Closed:	9/17/1991	Product:	Used Oil,
Date of Install:			

Active Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Other Comment:
Vapor Monitoring:

Active Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced Plastic:	Unknown:	

Active Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	Tank Been Repaired:
Concrete:	Lined Interior:
Double Walled:	Other:
Epoxy Coated Steel:	Polyeth Tank Jacket:
Excavation Liner:	Unknown:
Asphalt Coated or Bare Steel:	CHECKED
Composite (Steel with Fbrglss):	
Fiberglass Reinforced Plastic:	
Desc of Other Construction:	

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	
Owner Phone:	2317331019

Active Tank Detail Information

Tank No:	UTK-072566-15	Capacity:	10000
Tank ID:	8	Compartments:	
Tank Status:	Currently In Use	No of Compartments:	
Removed Closed:		Product:	Gasoline,
Date of Install:	10/7/1991		

Active Tank Release Detection

Automatic Tank Gauging: CHECKED
Groundwater Monitoring:
Inter Monitoring/Second Cont:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector: CHECKED
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing: CHECKED
Other:
Other Comment:
Vapor Monitoring: CHECKED

Active Piping Material

Bare Steel:		Flexible Piping:	CHECKED
Cathodically Prot:	CHECKED	Galvanized Steel:	
Copper:		Geo Flex:	
Double Wall:		Other:	
Enviroflex:		Other Comment:	
Fiberglass Reinforced Plastic:		Unknown:	

Active Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	CHECKED	Tank Been Repaired:
Concrete:		Lined Interior:
Double Walled:		Other:
Epoxy Coated Steel:		Polyeth Tank Jacket:
Excavation Liner:		Unknown:
Asphalt Coated or Bare Steel:		
Composite (Steel with Fbrglss):		
Fiberglass Reinforced Plastic:		
Desc of Other Construction:		

Active Impressed Current

Impressed Current Installed:

Active Tank Owner Information

Owner Name:	Kamaljit Singh Virk/Pinky Inc
Owner Address:	3000 Peck St
Owner City:	Muskegon Heights
Owner State:	MI
Owner Zip:	49444
Owner Country:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Owner Phone: 2317331019

Active Tank Detail Information

Tank No:	UTK-030484-15	Capacity:	6000
Tank ID:	7	Compartments:	
Tank Status:	Currently In Use	No of Compartments:	
Removed Closed:		Product:	Gasoline,
Date of Install:	10/7/1991		

Active Tank Release Detection

Automatic Tank Gauging: CHECKED
 Groundwater Monitoring:
 Inter Monitoring/Second Cont:
 Int Mont Double Wall Tank:
 Inventory Control:
 Manual Tank Gauging:
 Other:
 Other Comment:
 Tank Tightness Testing:
 Vapor Monitoring:

Active Piping Release Detection

Automatic Line Leak Detector: CHECKED
 Groundwater Monitoring:
 Inter Mont - Double Wall Piping:
 Inter Mont - Second Cont:
 Line Tightness Testing: CHECKED
 Other:
 Other Comment:
 Vapor Monitoring:

Active Piping Material

Bare Steel:		Flexible Piping:	CHECKED
Cathodically Prot:	CHECKED	Galvanized Steel:	
Copper:		Geo Flex:	
Double Wall:		Other:	
Enviroflex:		Other Comment:	
Fiberglass Reinforced		Unknown:	
Plastic:			

Active Piping Type

Gravity Fed:
 Piping Been Repaired:
 Not Marked:
 Pressure Remote:
 Suction No Valve at Tank:
 Suction Valve at Tank:

Active Tank Material

Cathod Prot Steel:	CHECKED	Tank Been Repaired:
Concrete:		Lined Interior:
Double Walled:		Other:
Epoxy Coated Steel:		Polyeth Tank Jacket:
Excavation Liner:		Unknown:
Asphalt Coated or Bare Steel:		
Composite (Steel with Fbrglss):		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Fiberglass Reinforced Plastic:
Desc of Other Construction:

Active Impressed Current

Impressed Current Installed:

3	3 of 3	ENE	0.13 / 703.58	628.03 / -1	PATS SERVICE 3000 PECK ST MUSKEGON MI 49444	WASTE
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Site ID:	MIG000045475	Legal Name:	PATS SERVICE
WDS ID:	440861	County:	MUSKEGON

4	1 of 1	ENE	0.15 / 797.63	626.96 / -2	ESSINGS AUTOBODY 2928 PECK ST MUSKEGON MI 49444	WASTE
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Site ID:	MIG000055265	Legal Name:	ESSINGS AUTOBODY
WDS ID:	428700	County:	MUSKEGON

5	1 of 2	NE	0.18 / 930.20	626.39 / -3	Gte 6052-001 2908 Peck St Muskegon MI 49444-2034	LUST
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Facility ID:	00011261	Facility County:	Muskegon
Active Tanks:		Facility District:	Grand Rapids
Desc Category:	Plant Entrance (Freight)	Latitude:	43.1992110000
Facility Phone:	(219) 461-2307	Longitude:	-86.2446740000
Owner Address:	41140 Bridge St	Horizontal Datum:	NAD83
Owner City:	Novi	Point Line Area:	POINT
Owner State:	MI	Accuracy:	100
Owner Zip:	48375-1300	Accuracy Unit:	FEET
Owner Country:	USA	Date of Collection:	01-11-2001
Owner Contact:		Source:	STATE OF MICHIGAN
Owner Phone:	(317) 896-6605		
Owner Name:	Gte North Inc		
Facility Contact Person:			
GIS Collection:	Address Matching-House Number		
Data Source:	DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search		

DEQ LUST Closed (Download)

Leak ID:	C-1385-85	Release Closed Date:	May 12 1990
Release Status:	Closed	Substance Released:	
Release Date:	Mar 12 1990	LUST Site Name:	GTE North, Inc.
Leak ID:	C-0921-96	Release Closed Date:	Nov 14 2007
Release Status:	Closed	Substance Released:	Diesel
Release Date:	Nov 11 1996	LUST Site Name:	Gte 6052-001

DEQ LUST Closed Releases (Site Search)

Leak ID:	C-1385-85	Discovery Date:	03/12/1990
Release Status:	Closed	Substance Released:	
Closed Date:	05/12/1990	Land Use Restrict:	NONE
Evaluation:	Type A Evaluation	LUST Site Name:	GTE North, Inc.
Leak ID:	C-0921-96	Discovery Date:	11/11/1996
Release Status:	Closed	Substance Released:	Diesel
Closed Date:	11/14/2007	Land Use Restrict:	NONE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Evaluation:	Tier I Evaluation	LUST Site Name:	Gte 6052-001
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DEQ LUST Closed Tanks (Site Search)

Tank ID:	A	Capacity In Gallons:	1000
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	4/30/1981 12:00:00 AM	Impressed Device:	No
Substance Stored:	Diesel		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Bare Steel		
Construction Material:	Asphalt Coated or Bare Steel		

5	2 of 2	NE	0.18 / 930.20	626.39 / -3	Gte 6052-001 2908 PECK ST MUSKEGON MI 49444-2034	UST
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Facility No:	11261	Facility County:	MUSKEGON
Status:	Closed	Facility State:	MI

Closed Tank Owner Information

Owner Name:	Gte North Inc
Owner Address:	41140 Bridge St
Owner City:	Novi
Owner State:	MI
Owner Zip:	48375-1300
Owner Country:	
Owner Phone:	3178966605

Closed Tank Detail Information

Tank No:	UTK-053994-15	Removed Closed:	10/16/1996
Tank ID:		Compartments:	
Tank Status:	Removed from Ground	No of Compartments:	
Capacity:	1000	Product:	Diesel,
Date of Installation:	4/30/1981		

Closed Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Closed Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Closed Piping Material

Bare Steel: CHECKED
Cathodically Prot:
Copper:
Double Wall:
Enviroflex:
Fiberglass Reinforced Plastic:

Flexible Piping:
Galvanized Steel:
Geo Flex:
Other:
Other Comment:
Unknown:

Closed Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Closed Tank Material

Cathod Prot Steel:
Concrete:
Double Walled:
Epoxy Coated Steel:
Excavation Liner:
Asphalt Coated or Bare Steel: CHECKED
Composite (Steel With Fbrgls):
Fiberglass Reinforced Plastic:
Desc of Other Conctruction:

Tank Been Repaired:
Lined Interior:
Other:
Polyeth Tank Jacket:
Unknown:

Closed Impressed Current

Impressed Current Installed:

<u>6</u>	1 of 1	NE	0.18 / 955.92	626.47 / -2	Derby Auto Service Center 2922 PECK ST MUSKEGON MI 49444-2034	UST
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Facility No: 1311
Status: Closed

Facility County: MUSKEGON
Facility State: MI

Closed Tank Owner Information

Owner Name: Derby Auto Serv Ctr
Owner Address: 2922 Peck St
Owner City: Muskegon Hts
Owner State: MI
Owner Zip: 49444-2034
Owner Country:
Owner Phone: 6167331234

Closed Tank Detail Information

Tank No: UTK-071659-15
Tank ID: 1
Tank Status: Removed from Ground
Capacity: 1000
Date of Installation: 3/11/1966

Removed Closed: 1/29/1992
Compartments:
No of Compartments:
Product: Gasoline,

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Closed Tank Release Detection

Automatic Tank Gauging:
Groundwater Monitoring:
Inter Monitoring/Second Cont:
Int Mont Double Wall Tank:
Inventory Control:
Manual Tank Gauging:
Other:
Other Comment:
Tank Tightness Testing:
Vapor Monitoring:

Closed Piping Release Detection

Automatic Line Leak Detector:
Groundwater Monitoring:
Inter Mont - Double Wall Piping:
Inter Mont - Second Cont:
Line Tightness Testing:
Other:
Other Comment:
Vapor Monitoring:

Closed Piping Material

Bare Steel:	Flexible Piping:	
Cathodically Prot:	Galvanized Steel:	CHECKED
Copper:	Geo Flex:	
Double Wall:	Other:	
Enviroflex:	Other Comment:	
Fiberglass Reinforced	Unknown:	
Plastic:		

Closed Piping Type

Gravity Fed:
Piping Been Repaired:
Not Marked:
Pressure Remote:
Suction No Valve at Tank:
Suction Valve at Tank:

Closed Tank Material

Cathod Prot Steel:	Tank Been Repaired:
Concrete:	Lined Interior:
Double Walled:	Other:
Epoxy Coated Steel:	Polyeth Tank Jacket:
Excavation Liner:	Unknown:
Asphalt Coated or Bare Steel:	CHECKED
Composite (Steel With Fbrgls):	
Fiberglass Reinforced Plastic:	
Desc of Other Contruction:	

Closed Impressed Current

Impressed Current Installed:

7	1 of 1	NNE	0.26 / 1,387.14	629.58 / 1	2812-2814 Peck Street 2812-2814 Peck Street Muskegon Heights MI	DELISTED SHWS
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Facility ID:	61000376				County:	Muskegon
Baseline Assess No:					Township:	Muskegon Hts
Data Source:	Part 201				District:	Grand Rapids
Source:					Latitude:	43.20083
Score Out of 48:					Longitude:	-86.24497
Score Date:						
Overall Status:						
Pollutant:						
Original Source:	SHWS					
Record Date:	22-AUG-2016					

<u>8</u>	1 of 1	NNE	0.27 / 1,408.04	628.95 / 0	TEXTRON INC CWC CASTINGS DIV PLT #1 SANFORD ST & BROADWAY MUSKEGON HEIGHTS MI 49441	WASTE
Site ID:	MID000809921				Legal Name:	TEXTRON INC
WDS ID:	392843				County:	MUSKEGON

<u>9</u>	1 of 2	NNW	0.28 / 1,452.32	629.33 / 0	Alaska Refrigerator Co. & Borg 150 W. Broadway Ave. Muskegon Heights MI	FED BROWNFIELDS
Type of Funding:	N/A					
Acres Property ID:	14852					
Property Size(Acres):						
Local Property No:						
Ownership Entity:						
Current Owner:						
Did Ownership Change:						
Sflp Fact into the Owship:						
Latitude:	43.200737					
Longitude:	-86.248887					
Horizontal Collection Mthd:	Address Matching-House Number					
Source Map Scale:	100000					
Reference Point:	Entrance Point of a Facility or Station					
Horiz Reference Datum:	North American Datum of 1983					
Cleanup Required:						
Cntmnt Fnd Ctrl Sbstncs:						
Cntmnt Fnd Petroleum:						
Cntmnt Fnd Asbestos:						
Cntmnt Fnd Lead:						
Cntmnt Fnd Pahs:						
Cntmnt Fnd Pcbs:						
Cntmnt Fnd Vocs:						
Cntmnt Fnd Selenium:						
Cntmnt Fnd Iron:						
Cntmnt Fnd Arsenic:						
Cntmnt Fnd Cadmium:						
Cntmnt Fnd Chromium:						
Cntmnt Fnd Copper:						
Cntmnt Fnd Mercury:						
Cntmnt Fnd Nickel:						
Cntmnt Fnd Pesticides:						
Cntmnt Fnd Svocs:						
Cntmnt Fnd Other Metals:						
Cntmnt Fnd Other:						
Cntmnt Fnd Other Descr :						
Cntmnt Fnd Unknown:						
Cntmnt Fnd None:						
Cntmnt Cld Up Ctl Sbst:						
Cntmnt Cld Up Petroleum:						
Cntmnt Cld Up Asbestos:						
Cntmnt Cld Up Lead:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Cntmnt Clnd Up PAHs: Cntmnt Clnd Up PCBs: Cntmnt Clnd Up VOCs: Cntmnt Clnd Up Selenium: Cntmnt Clnd Up Iron: Cntmnt Clnd Up Arsenic: Cntmnt Clnd Up Cadmium: Cntmnt Clnd Up Chromium: Cntmnt Clnd Up Copper: Cntmnt Clnd Up Mercury: Cntmnt Clnd Up Nickel: Cntmnt Clnd Up Pesticides: Cntmnt Clnd Up Svocs: Cntmnt Clnd Oth Metals: Cntmnt Clnd Up Other: Cntmnt Clnd Up Oth Desc: Cntmnt Clnd Up Unknown: Cntmnt Clnd Up None: Media Affected Air: Media Affected Sediments: Media Affected Soil: Media Affect Drnking Wtr: Media Affected Grnd Wtr: Media Affctd Surf Wtr: Media Affctd Bldg Matrls: Media Affected Indoor Air: Media Affected None: Media Affected Unknown: Media Clnd Up Air: Media Clnd Up Sediments: Media Clnd Up Soil: Media Clnd Up Drnk Wtr: Media Clnd Up Grnd Wtr: Media Clnd Up Surf Wtr: Media Clnd Up Bldg Mats: Media Clnd Up Indoor Air: Media Clnd Up Unknown: St Tribal Prg ID No: Further Action Cleanup: Enrollment St Tribal Prg: Institutional Ctrl ICs Req: IC Catgry Proprietary Ctrl: IC Catgry Informational Dev: IC Catgry Govmntal Ctrl: IC Catgry Enfrc Prmt Tls: ICs in Place: Date ICs in Place: Photographs are Available: Video is Available: Description History:						
		U				
					appliance manufacturing facility	
--Details--						
Grant Recipient Name:		Muskegon Heights, City of				
Accomplishment Counted:		0				
Cooperative Agrment No:		97504101				
Type Brownfields Grant:		Assessment				
Assessment Phase:						
Assessment Start Date:						
Assessment Compltn Dt:						
Srce of Assessment Fund:						
Entity Prov Assmnt Fund:						
Assessment Funding Amt:						
Cleanup Start Date:						
Cleanup Completion Date:						
Acres Cleaned Up:						
Cleanup Funding Source:						
Entity Prvd Cleanup Fund:						
Cleanup Funding Amount:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Redevelopment Start Dt: No of Clnup/Redev Jobs: Acre/Grnspace Created: Src of Redev Funding: Entity Prvd Redev Funds: Redev Funding Amount: Highlights: IC Data Address: Redev Completion Date: Past Use Greenspace Arces: Past Use Residential Arces: Past Use Commercial Arces: Past Use Industrial Arces: Past Use Multistory Arces: Future Use Multistory Arces: Future Use Greenspace: Future Use Residential: Future Use Commercial: Future Use Industrial: 2010 Below Poverty No: 1807 2010 Below Poverty Pct: 53.2% 2010 Median Income: 2981 2010 Low Income No: 2712 2010 Low Income Pct: 79.8% 2010 Vacant Housing No: 353 2010 Vac Housing Pct: 22.8% 2010 Unemployed No: 430 2010 Unemployed: 12.7%						

<u>9</u>	2 of 2	NNW	0.28 / 1,452.32	629.33 / 0	Laboratory Furniture (Former) 150 West Broadway Avenue Muskegon Heights MI 49444	SHWS
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Facility ID: 61000313
Data Source: Part 201
Latitude: 43.20195
Longitude: -86.24891
Facility Name: Laboratory Furniture (Former)

County: Muskegon
Township: Muskegon Hts
District: Grand Rapids
Baseline Assess No:

<u>10</u>	1 of 1	ENE	0.28 / 1,456.81	628.03 / -1	COLUMBIA COURT 65 E COLUMBIA MUSKEGON HEIGHTS MI 49444	WASTE
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Site ID: MIK662880559
WDS ID: 496889

Legal Name: MUSKEGON HEIGHTS HOUSING COMMISSION
County: MUSKEGON

<u>11</u>	1 of 2	NNW	0.28 / 1,494.72	628.90 / 0	183 W. Broadway 183 W Broadway MI	BEA
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BEA No: 200201016GR
Facility ID:
Data Source: BEA
Township: Muskegon Hts
Facility Name: 183 W. Broadway

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

<u>11</u>	2 of 2	NNW	0.28 / 1,494.72	628.90 / 0	Rita Duca 183 W Broadway Ave Muskegon MI 49444-2060	LUST
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Facility ID: 50002543 **Facility County:** Muskegon

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Active Tanks:				Facility District:	Grand Rapids	
Desc Category:	Plant Entrance (Freight)			Latitude:	43.2009100000	
Facility Phone:	() -			Longitude:	-86.2492420000	
Owner Address:	3447 Padelt St			Horizontal Datum:	NAD83	
Owner City:	Muskegon			Point Line Area:	POINT	
Owner State:	MI			Accuracy:	100	
Owner Zip:	49441-4324			Accuracy Unit:	FEET	
Owner Country:	USA			Date of Collection:	01-11-2001	
Owner Contact:				Source:	STATE OF MICHIGAN	
Owner Phone:	() -					
Owner Name:	Rita Duca					
Facility Contact Person:						
GIS Collection:	Address Matching-House Number					
Data Source:	DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search					

DEQ LUST Closed (Download)

Leak ID:	C-0128-02	Release Closed Date:	Jan 19 2005
Release Status:	Closed	Substance Released:	Unknown
Release Date:	Oct 19 1995	LUST Site Name:	Rita Duca

DEQ LUST Closed Releases (Site Search)

Leak ID:	C-0128-02	Discovery Date:	10/19/1995
Release Status:	Closed	Substance Released:	Unknown
Closed Date:	01/19/2005	Land Use Restrict:	NONE
Evaluation:	Tier I Evaluation	LUST Site Name:	Rita Duca

DEQ LUST Closed Tanks (Site Search)

Tank ID:	1	Capacity In Gallons:	
Tank Status:	Non-Registered Tank	Piping Type:	
Installation Date:		Impressed Device:	No
Substance Stored:	UNK		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:			
Construction Material:			

<u>12</u>	1 of 1	NNW	0.30 / 1,574.60	627.91 / -1	CLUCHEY RADIATOR SERVICE 201 W BROADWAY AVE MUSKEGON HEIGHTS MI 49441	WASTE
Site ID:	MIG000031362	Legal Name:	CLUCHEY RADIATOR SERVICE			
WDS ID:	447390	County:	MUSKEGON			

13	1 of 2	NNW	0.32 / 1,664.14	627.29 / -2	P & J Auto Elec 240 W Broadway Ave Muskegon Hts MI 49444-2002	LUST
Facility ID:	00002819			Facility County:	Muskegon	
Active Tanks:				Facility District:	Grand Rapids	
Desc Category:	Plant Entrance (Freight)			Latitude:	43.2012010000	
Facility Phone:	(616) 733-2071			Longitude:	-86.2506150000	
Owner Address:	240 W Broadway Ave			Horizontal Datum:	NAD83	
Owner City:	Muskegon Hts			Point Line Area:	POINT	
Owner State:	MI			Accuracy:	100	
Owner Zip:	49444-2002			Accuracy Unit:	FEET	
Owner Country:	USA			Date of Collection:	01-11-2001	
Owner Contact:				Source:	STATE OF MICHIGAN	
Owner Phone:	(616) 733-2071					
Owner Name:	Phillip Schugars					
Facility Contact Person:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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GIS Collection: Address Matching-House Number
 Data Source: DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search

DEQ LUST Open (Download)

Leak ID:	C-0265-97	Release Closed Date:	
Release Status:	Open	Substance Released:	Gasoline
Release Date:	Apr 28 1997	LUST Site Name:	P & J Auto Elec

DEQ LUST Active Releases (Site Search)

Leak ID:	C-0265-97	Discovery Date:	04/28/1997
Release Status:	Open	Substance Released:	Gasoline
Closed Date:		Land Use Restrict:	
Evaluation:		LUST Site Name:	P & J Auto Elec

DEQ LUST Active Tanks (Site Search)

Tank ID:	2	Capacity in Gallons:	1500
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	5/8/1966 12:00:00 AM	Impressed Device:	No
Substance Stored:	Gasoline		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Galvanized Steel		
Construction Material:	Asphalt Coated or Bare Steel		

Tank ID:	3	Capacity in Gallons:	1500
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	5/8/1966 12:00:00 AM	Impressed Device:	No
Substance Stored:	Gasoline		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Galvanized Steel		
Construction Material:	Asphalt Coated or Bare Steel		

Tank ID:	4	Capacity in Gallons:	1000
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	5/9/1971 12:00:00 AM	Impressed Device:	No
Substance Stored:	Gasoline		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Galvanized Steel		
Construction Material:	Asphalt Coated or Bare Steel		

Tank ID:	1	Capacity in Gallons:	1500
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	5/8/1966 12:00:00 AM	Impressed Device:	No
Substance Stored:	Gasoline		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Galvanized Steel		
Construction Material:	Asphalt Coated or Bare Steel		

Tank ID:	5	Capacity in Gallons:	4000
Tank Status:	Removed from Ground	Piping Type:	
Installation Date:	5/8/1966 12:00:00 AM	Impressed Device:	No
Substance Stored:	Gasoline		
Tank Release Detection:			
Piping Release Detection:			
Piping Material:	Galvanized Steel		
Construction Material:	Asphalt Coated or Bare Steel		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
			1,664.14	-2	240 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	
Site ID:	MIG000048369				Legal Name:	T & J AUTO ELECTRIC
WDS ID:	439034				County:	MUSKEGON
14	1 of 1	NNE	0.32 / 1,706.07	629.14 / 0	SANDFORD ST LDC 2761 PECK ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID:	MIG000021370				Legal Name:	SANDFORD ST LDC
WDS ID:	452627				County:	MUSKEGON
15	1 of 1	NW	0.33 / 1,727.22	626.96 / -2	WEST SIDE CAR WASH 250 W BROADWAY AVE MUSKEGON MI 49441	WASTE
Site ID:	MIG000038800				Legal Name:	WEST SIDE CAR WASH
WDS ID:	416454				County:	MUSKEGON
16	1 of 1	NW	0.33 / 1,744.23	626.76 / -2	Rose Baker 251 W Broadway Ave Muskegon Hts MI 494442048	SHWS
Facility ID:	61000394				County:	Muskegon
Data Source:	Part 201				Township:	Muskegon Heights
Latitude:	43.20093				District:	Grand Rapids
Longitude:	-86.25114				Baseline Assess No:	
Facility Name:	Rose Baker					
17	1 of 1	NNW	0.34 / 1,798.04	628.54 / 0	LABORATORY FURNITURE MIDWEST INC 2736 6TH ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID:	MID980995914				Legal Name:	LABORATORY FURNITURE MIDWEST INC
WDS ID:	399420				County:	MUSKEGON
18	1 of 2	N	0.34 / 1,801.30	628.76 / 0	2719 Sanford Street 2719 Sanford Street MI 49444	BEA
BEA No:	200301243GR				County:	Muskegon
Facility ID:					District:	Grand Rapids
Data Source:	BEA				Latitude:	
Township:	Muskegon Heights				Longitude:	
Facility Name:	2719 Sanford Street					
18	2 of 2	N	0.34 / 1,801.30	628.76 / 0	2719 Sanford Street 2719 Sanford Street MI 49444	BEA
BEA No:	200301244GR				County:	Muskegon
Facility ID:					District:	Grand Rapids
Data Source:	BEA				Latitude:	
Township:	Muskegon Heights				Longitude:	
Facility Name:	2719 Sanford Street					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
19	1 of 3	NE	0.35 / 1,863.94	628.04 / -1	BROWN-MORSE CO 110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	CERCLIS

Site ID:	0502359	RNPL Status Code:	N
Site EPA ID:	MID006024293	NPL Status:	Not on the NPL
Site Street Address 2:		RFED Facility Code:	N
Site County Name:	MUSKEGON	RFED Facility Desc:	Not a Federal Facility
Site FIPS Code:	26121	USGS Hydro Unit No.:	04060101
Region Code:	05	Site Cong. Dist. Code:	09
Site SMSA No.:	5320	ROT Desc:	Other
Site Prim. Latitude:	+43.198333	FR NPL Update No.:	
Site Prim. Longitude:	-086.263333	RFRA Code:	
Lat Long Source:			
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA In-House
Act Code ID:	001	Act Start Date:	
RAT Code:	VS	Act Complete Date:	7/29/1986 00:00:00
RAT Short Name:	ARCH SITE	AGT Order No.:	1500
RAT Name:	ARCHIVE SITE	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The decision is made that no further activity is planned at the site.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	EPA Fund
Act Code ID:	001	Act Start Date:	
RAT Code:	DS	Act Complete Date:	12/11/1980 00:00:00
RAT Short Name:	DISCVRY	AGT Order No.:	10
RAT Name:	DISCOVERY	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:	13		
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
Site Desc:			
Site Alias:			

CERCLIS Assess History

OU ID:	00	RALT Short Name:	
Act Code ID:		Act Start Date:	
RAT Code:		Act Complete Date:	
RAT Short Name:		AGT Order No.:	0
RAT Name:		SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:		SH Seq:	
RAT Level:		SH Start Date:	
RAT DEF OU:		SH Complete Date:	
RFBS Code:		SH Lead:	
SPA Code:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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RAT Def:
Site Desc: No description available
Site Alias: No alias data available

CERCLIS Assess History

OU ID:	00	RALT Short Name:	State (Fund)
Act Code ID:	001	Act Start Date:	
RAT Code:	PA	Act Complete Date:	7/29/1986 00:00:00
RAT Short Name:	PA	AGT Order No.:	130
RAT Name:	PRELIMINARY ASSESSMENT	SH OU:	
RAT Hist. Only Flag:		SH Code:	
RAT NSI Indicator:	B	SH Seq:	
RAT Level:	1	SH Start Date:	
RAT DEF OU:	00	SH Complete Date:	
RFBS Code:	P	SH Lead:	
SPA Code:	13		
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
Site Desc:			
Site Alias:			

19	2 of 3	NE	0.35 / 1,863.94	628.04 / -1	BROWN-MORSE CO 110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	CERCLIS NFRAP
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Site ID:	502359	Site FIPS Code:	26121
Site EPA ID:	MID006024293	Region Code:	5
Site Parent ID:		Site Cong. Dist. Code:	9
Site County Name:	MUSKEGON	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	12/11/1980
RAT Code:	DS	AGT Order No.:	10
RAT Short Name:	DISCVRY	SH OU:	
RAT Name:	DISCOVERY	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	7/29/1986
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House	RNPL Status Code:	N

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
RAT Def:		The decision is made that no further activity is planned at the site.				
RNON NPL Status Desc:		NFRAP-Site does not qualify for the NPL based on existing information				
CERCLIS-NFRAP Assess History						
OU ID:	0				Act Start Date:	
Act Code ID:	1				Act Complete Date:	7/29/1986
RAT Code:	PA				AGT Order No.:	130
RAT Short Name:	PA				SH OU:	
RAT Name:	PRELIMINARY ASSESSMENT				SH Code:	
RAT Hist. Only Flag:					SH Seq:	
RAT NSI Indicator:	B				SH Start Date:	
RAT Level:	1				SH Complete Date:	
RAT DEF OU:	00				SH Lead:	
RFBS Code:	P				SH Qual:	
SPA Code:	13				RAQ Act. Qual Short:	NFRAP
RALT Short Name:	State (Fund)				RNPL Status Code:	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.					
RNON NPL Status Desc:		NFRAP-Site does not qualify for the NPL based on existing information				
19	3 of 3	NE	0.35 / 1,863.94	628.04 / -1	BROWN-MORSE CO 110 E BROADWAY ST MUSKEGON HEIGHTS MI 49444	SEMS ARCHIVE
Site ID:	0502359				FIPS Code:	26121
EPA ID:	MID006024293				Cong District:	09
NPL:	Not on the NPL				County:	MUSKEGON
Federal Facility:	No				Region:	05
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information					
Action Information						
Operable Units:	00				Start Actual:	12/11/1980
Action Code:	DS				Finish Actual:	12/11/1980
Action Name:	DISCVRY				Qual:	
SEQ:	1				Curr Action Lead:	EPA Perf
Operable Units:	00				Start Actual:	
Action Code:	VS				Finish Actual:	07/29/1986
Action Name:	ARCH SITE				Qual:	
SEQ:	1				Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00				Start Actual:	
Action Code:	PA				Finish Actual:	07/29/1986
Action Name:	PA				Qual:	N
SEQ:	1				Curr Action Lead:	St Perf
20	1 of 1	NNE	0.35 / 1,869.31	628.30 / -1	Ashendorf Auto Parts (Former) 15 East Center Street Muskegon Heights MI 49444	SHWS
Facility ID:	61000312				County:	Muskegon
Data Source:	Part 201				Township:	Muskegon Hts
Latitude:	43.20177				District:	Grand Rapids
Longitude:	-86.24363				Baseline Assess No:	
Facility Name:	Ashendorf Auto Parts (Former)					
21	1 of 2	NNE	0.36 / 1,911.06	628.75 / 0	CHEMICAL WASTE MGMT INC 2724 PECK ST MUSKEGON MI 49444	WASTE
Site ID:	MID985660992				Legal Name:	CHEMICAL WASTE MANAGEMENT

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
WDS ID:	408640			County:	MUSKEGON	
21	2 of 2	NNE	0.36 / 1,911.06	628.75 / 0	CITY OF MUSKEGON HEIGHTS 2724 PECK ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID:	MIG000007570			Legal Name:	CITY OF MUSKEGON HEIGHTS	
WDS ID:	457885			County:	MUSKEGON	
22	1 of 2	N	0.37 / 1,942.13	628.49 / 0	West Sanford Village 2700 SANFORD ST MUSKEGON MI 49444	LUST
Facility ID:	00013319			Facility County:	Muskegon	
Active Tanks:				Facility District:	Grand Rapids	
Desc Category:	Plant Entrance (Freight)			Latitude:	43.2025860000	
Facility Phone:	(616) 733-1355			Longitude:	-86.2457510000	
Owner Address:	2724 Peck St			Horizontal Datum:	NAD83	
Owner City:	Muskegon			Point Line Area:	POINT	
Owner State:	MI			Accuracy:	100	
Owner Zip:	49444-2030			Accuracy Unit:	FEET	
Owner Country:	USA			Date of Collection:	01-11-2001	
Owner Contact:				Source:	STATE OF MICHIGAN	
Owner Phone:	(231) 773-8870					
Owner Name:	City of Muskegon Heights					
Facility Contact Person:						
GIS Collection:	Address Matching-House Number					
Data Source:	DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search					
<u>DEQ LUST Closed (Download)</u>						
Leak ID:	C-1431-91			Release Closed Date:	Jul 29 1993	
Release Status:	Closed			Substance Released:	Unknown	
Release Date:	Jul 19 1991			LUST Site Name:	West Sanford Village	
<u>DEQ LUST Closed Releases (Site Search)</u>						
Leak ID:	C-1431-91			Discovery Date:	07/19/1991	
Release Status:	Closed			Substance Released:	Unknown	
Closed Date:	07/29/1993			Land Use Restrict:	NONE	
Evaluation:	Type A Evaluation			LUST Site Name:	West Sanford Village	
<u>DEQ LUST Closed Tanks (Site Search)</u>						
Tank ID:	2			Capacity In Gallons:	10000	
Tank Status:	Removed from Ground			Piping Type:		
Installation Date:	5/5/1946 12:00:00 AM			Impressed Device:	No	
Substance Stored:	CORE OIL					
Tank Release Detection:						
Piping Release Detection:						
Piping Material:	Unknown					
Construction Material:	Asphalt Coated or Bare Steel					
Tank ID:	3			Capacity In Gallons:	10000	
Tank Status:	Removed from Ground			Piping Type:		
Installation Date:	5/5/1946 12:00:00 AM			Impressed Device:	No	
Substance Stored:	CORE OIL					
Tank Release Detection:						
Piping Release Detection:						
Piping Material:	Unknown					
Construction Material:	Asphalt Coated or Bare Steel					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Tank ID: 1 Tank Status: Removed from Ground Installation Date: 5/5/1976 12:00:00 AM Substance Stored: Gasoline Tank Release Detection: Piping Release Detection: Piping Material: Unknown Construction Material: Asphalt Coated or Bare Steel						
Capacity In Gallons: 10000 Piping Type: Impressed Device: No						
22	2 of 2	N	0.37 / 1,942.13	628.49 / 0	JAMES CULLOM 2700 SANFORD ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: MIG000022487 WDS ID: 452021 Legal Name: JAMES CULLOM County: MUSKEGON						
23	1 of 4	N	0.38 / 1,982.79	628.49 / 0	2701 Sanford Street 2701 Sanford Street MI 49444	BEA
BEA No: 200201084GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2701 Sanford Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
23	2 of 4	N	0.38 / 1,982.79	628.49 / 0	2701 Sanford Street 2701 Sanford Street MI 49444	BEA
BEA No: 200201085GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2701 Sanford Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
23	3 of 4	N	0.38 / 1,982.79	628.49 / 0	2701 Sanford Street 2701 Sanford Street MI 49444	BEA
BEA No: 201504085GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2701 Sanford Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
23	4 of 4	N	0.38 / 1,982.79	628.49 / 0	2701 Sanford Street 2701 Sanford Street MI 49444	BEA
BEA No: 201504084GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2701 Sanford Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
24	1 of 1	NW	0.38 / 2,015.91	626.26 / -3	SHORELINE METAL FINISHING 325 W BROADWAY AVE MUSKEGON MI 49444	WASTE

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Site ID: WDS ID:	MIK316781830 468919				Legal Name: County:	SHORELINE METAL FINISHING MUSKEGON
25	1 of 1	NE	0.38 / 2,028.90	627.36 / -2	FAMILY DOLLAR #1791 120 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: WDS ID:	MIK184167970 495418				Legal Name: County:	FAMILY DOLLAR STORES MUSKEGON
26	1 of 2	NE	0.39 / 2,083.56	626.67 / -2	MEIER CLEANERS INC 2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	RCRA TSD
EPA Handler ID: MID017270414 Gen Status Universe: Conditionally Exempt Small Quantity Generator Contact Name: JOSEPH BOLDUC Contact Address: 2804 LEAHY ST, , MUSKEGON HEIGHTS, MI, 49444, US Contact Phone No and Ext: 231-733-2409 Contact Email: Contact Country: US Land Type: County Name: MUSKEGON EPA Region: 05 Receive Date:						
<u>Violation/Evaluation Summary</u>						
Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated May, 2018.						
<u>Violation Details</u>						
Citation: Violation Short Description: Generators - General Violation Determined Date: 19960722 Return to Compliance Date: 19961018 Violation Responsible Agency: State						
<u>Enforcement Details</u>						
Enforcement Type Description: WRITTEN INFORMAL Enforcement Action Date: 19960722 Enf Disposition Status: Disposition Status Date: Enforcement Lead Agency: Proposed Penalty Amount: Final Amount: Paid Amount:						
<u>Evaluation Details</u>						
Evaluation Start Date: 19960711 Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE Violation Short Description: Generators - General Return to Compliance Date: 19961018 Evaluation Agency: State						
<u>Handler Summary</u>						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility:	No
Onsite Burner Exemption:	No
Furnace Exemption:	No
Underground Injection Activity:	No
Commercial TSD:	No
Used Oil Transporter:	No
Used Oil Transfer Facility:	No
Used Oil Processor:	No
Used Oil Refiner:	No
Used Oil Burner:	No
Used Oil Market Burner:	No
Used Oil Spec Marketer:	No

Hazardous Waste Handler Details

Sequence No:	4
Receive Date:	19960227
Handler Name:	MEIER CLEANERS INCORPORATED
Generator Status Universe:	Conditionally Exempt Small Quantity Generator
Source Type:	R

Sequence No:	1
Receive Date:	19900220
Handler Name:	MEIER CLEANERS INC
Generator Status Universe:	Conditionally Exempt Small Quantity Generator
Source Type:	R

Sequence No:	2
Receive Date:	19920207
Handler Name:	MEIER CLEANERS INC
Generator Status Universe:	Conditionally Exempt Small Quantity Generator
Source Type:	R

Sequence No:	3
Receive Date:	19940222
Handler Name:	MEIER CLEANERS INCORPORATED
Generator Status Universe:	Conditionally Exempt Small Quantity Generator
Source Type:	R

Waste Code Details

Hazardous Waste Code:	D001
Waste Code Description:	IGNITABLE WASTE

Hazardous Waste Code:	D001
Waste Code Description:	IGNITABLE WASTE

Hazardous Waste Code:	D001
Waste Code Description:	IGNITABLE WASTE

Hazardous Waste Code:	D001
Waste Code Description:	IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Owner
Type:	Private
Name:	BOLDUC JOSEPH
Date Became Current:	19800712
Date Ended Current:	
Phone:	

Street No:	
Street 1:	
Street 2:	
City:	
State:	
Country:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
Source Type:	I				Zip Code:	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	
Name:	BOLDUC JOSEPH				Street 2:	
Date Became Current:	19800712				City:	
Date Ended Current:					State:	
Phone:					Country:	
Source Type:	I				Zip Code:	
Owner/Operator Ind:	Current Owner				Street No:	
Type:	Private				Street 1:	
Name:	BOLDUC JOSEPH				Street 2:	
Date Became Current:	19800712				City:	
Date Ended Current:					State:	
Phone:					Country:	
Source Type:	N				Zip Code:	
Owner/Operator Ind:	Current Operator				Street No:	
Type:	Private				Street 1:	
Name:	BOLDUC JOSEPH				Street 2:	
Date Became Current:	19800712				City:	
Date Ended Current:					State:	
Phone:					Country:	
Source Type:	N				Zip Code:	
<hr/>						
26	2 of 2	NE	0.39 / 2,083.56	626.67 / -2	MEIER CLEANERS INC 2804 LEAHY ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID:	MID017270414			Legal Name:	MEIER CLEANERS INC	
WDS ID:	394948			County:	MUSKEGON	
<hr/>						
27	1 of 1	NW	0.40 / 2,107.33	625.85 / -3	ANCOR Corporation 339 W. Broadway Avenue Muskegon Heights MI	FED BROWNFIELDS
Type of Funding:	N/A					
Acres Property ID:	14851					
Property Size(Acres):						
Local Property No:						
Ownership Entity:						
Current Owner:						
Did Ownership Change:						
Sfillp Fact into the Owship:						
Latitude:	43.200463					
Longitude:	-86.253122					
Horizontal Collection Mthd:	Address Matching-House Number					
Source Map Scale:	100000					
Reference Point:	Entrance Point of a Facility or Station					
Horiz Reference Datum:	North American Datum of 1983					
Cleanup Required:	Y					
Cntmnt Fnd Ctrl Sbstncs:						
Cntmnt Fnd Petroleum:						
Cntmnt Fnd Asbestos:						
Cntmnt Fnd Lead:						
Cntmnt Fnd Pahs:						
Cntmnt Fnd Pcbs:						
Cntmnt Fnd Vocs:						
Cntmnt Fnd Selenium:						
Cntmnt Fnd Iron:						
Cntmnt Fnd Arsenic:						
Cntmnt Fnd Cadmium:						
Cntmnt Fnd Chromium:						
Cntmnt Fnd Copper:						
Cntmnt Fnd Mercury:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Cntrmt Fnd Nickel: Cntrmt Fnd Pesticides: Cntrmt Fnd Svocs: Cntrmt Fnd Other Metals: Cntrmt Fnd Other: Cntrmt Fnd Other Descr : Cntrmt Fnd Unknown: Cntrmt Fnd None: Cntrmt Clnd Up Ctl Sbst: Cntrmt Clnd Up Petroleum: Cntrmt Clnd Up Asbestos: Cntrmt Clnd Up Lead: Cntrmt Clnd Up PAHs: Cntrmt Clnd Up PCBs: Cntrmt Clnd Up VOCs: Cntrmt Clnd Up Selenium: Cntrmt Clnd Up Iron: Cntrmt Clnd Up Arsenic: Cntrmt Clnd Up Cadmium: Cntrmt Clnd Up Chromium: Cntrmt Clnd Up Copper: Cntrmt Clnd Up Mercury: Cntrmt Clnd Up Nickel: Cntrmt Clnd Up Pesticides: Cntrmt Clnd Up Svocs: Cntrmt Clnd Oth Metals: Cntrmt Clnd Up Other: Cntrmt Clnd Up Oth Descr: Cntrmt Clnd Up Unknown: Cntrmt Clnd Up None: Media Affected Air: Media Affected Sediments: Media Affected Soil: Media Affect Drnking Wtr: Media Affected Grnd Wtr: Media Affctd Surf Wtr: Media Affctd Bldg Matrls: Media Affected Indoor Air: Media Affected None: Media Affected Unknown: Media Clnd Up Air: Media Clnd Up Sediments: Media Clnd Up Soil: Media Clnd Up Drnk Wtr: Media Clnd Up Grnd Wtr: Media Clnd Up Surf Wtr: Media Clnd Up Bldg Mats: Media Clnd Up Indoor Air: Media Clnd Up Unknown: St Tribal Prg ID No: Further Action Cleanup: Enrollment St Tribal Prg: Institutional Ctrl ICs Req: IC Catgry Proprietary Ctrl: IC Catgry Informational Dev: IC Catgry Govmntal Ctrl: IC Catgry Enfrc Prmt Tls: ICs in Place: Date ICs in Place: Photographs are Available: Video is Available: Description History:						
		U				
					light industrial facility	
--Details--						
Grant Recipient Name:		Muskegon Heights, City of				
Accomplishment Counted:		0				
Cooperative Agrment No:		97504101				
Type Brownfields Grant:		Assessment				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Assessment Phase: Phase I Environmental Assessment Assessment Start Date: 09/30/2001 00:00:00 Assessment Compltn Dt: 09/30/2001 00:00:00 Srce of Assessment Fund: Entity Prov Assmnt Fund: Assessment Funding Amt: Cleanup Start Date: Cleanup Completion Date: Acres Cleaned Up: Cleanup Funding Source: Entity Prvd Cleanup Fund: Cleanup Funding Amount: Redevelopment Start Dt: No of Clnup/Redev Jobs: Acre/Grnspace Created: Src of Redev Funding: Entity Prvd Redev Funds: Redev Funding Amount: Highlights: IC Data Address: Redev Completion Date: Past Use Greenspace Arces: Past Use Residential Arces: Past Use Commercial Arces: Past Use Industrial Arces: Past Use Multistory Arces: Future Use Multistory Arces: Future Use Greenspace: Future Use Residential: Future Use Commercial: Future Use Industrial: 2010 Below Poverty No: 1451 2010 Below Poverty Pct: 51.4% 2010 Median Income: 2448 2010 Low Income No: 2208 2010 Low Income Pct: 78.3% 2010 Vacant Housing No: 346 2010 Vac Housing Pct: 25.5% 2010 Unemployed No: 327 2010 Unemployed: 11.6%						
28	1 of 1	NE	0.41 / 2,178.82	626.45 / -2	FAMILY DOLLAR #1791 150 E BROADWAY AVE MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: MIK127092082		Legal Name: FAMILY DOLLAR STORES				
WDS ID: 494526		County: MUSKEGON				
29	1 of 1	NNE	0.43 / 2,253.50	627.98 / -1	GH IMAGING 2651 PECK ST MUSKEGON MI 49444	WASTE
Site ID: MIK973195134		Legal Name: GRAPHICS HOUSE SPORTS PROMOTIONS INC				
WDS ID: 481824		County: MUSKEGON				
30	1 of 2	NNE	0.43 / 2,290.13	627.86 / -1	2640 Peck Street 2640 Peck Street MI	BEA
BEA No: 200201086GR		County: Muskegon				
Facility ID:		District: Grand Rapids				
Data Source: BEA		Latitude:				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Township: Muskegon Heights Facility Name: 2640 Peck Street		Longitude:				
30	2 of 2	NNE	0.43 / 2,290.13	627.86 / -1	2640 Peck Street 2640 Peck Street MI	BEA
BEA No: 200201087GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2640 Peck Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
31	1 of 1	NNW	0.44 / 2,342.67	625.92 / -3	MUSKEGON WINDWOW CLEANING 2653 7TH ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: MIG000031182 WDS ID: 447558		Legal Name: MUSKEGON WINDWOW CLEANING County: MUSKEGON				
32	1 of 2	NW	0.45 / 2,361.69	625.77 / -3	2724 Ninth Street 2724 Ninth Street MI	BEA
BEA No: 200000704GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2724 Ninth Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
32	2 of 2	NW	0.45 / 2,361.69	625.77 / -3	AERO MFG 2724 9TH ST MUSKEGON HEIGHTS MI 49441	WASTE
Site ID: MIG000031244 WDS ID: 447600		Legal Name: AERO MFG County: MUSKEGON				
33	1 of 2	NNW	0.45 / 2,387.28	628.17 / -1	2624 - 6th Street 2624 - 6th Street MI	BEA
BEA No: 199900564GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 2624 - 6th Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
33	2 of 2	NNW	0.45 / 2,387.28	628.17 / -1	MUSKEGON AREA TRANSIT SYSTEM 2624 6TH ST MUSKEGON MI 49444	WASTE
Site ID: MIK232625343 WDS ID: 473961		Legal Name: COUNTY OF MUSKEGON County: MUSKEGON				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
34	1 of 2	N	0.46 / 2,426.38	628.13 / -1	Security Steel Craft Corp 2636 Sanford St. Muskegon Heights MI	FED BROWNFIELDS
Type of Funding:		N/A				
Acres Property ID:		14859				
Property Size(Acres):						
Local Property No:						
Ownership Entity:						
Current Owner:						
Did Ownership Change:						
Sfillp Fact into the Owship:						
Latitude:		43.203894				
Longitude:		-86.245748				
Horizontal Collection Mthd:		Address Matching-House Number				
Source Map Scale:		100000				
Reference Point:		Entrance Point of a Facility or Station				
Horiz Reference Datum:		North American Datum of 1983				
Cleanup Required:		Y				
Cntrmnt Fnd Ctrl Sbstrncs:						
Cntrmnt Fnd Petroleum:						
Cntrmnt Fnd Asbestos:						
Cntrmnt Fnd Lead:						
Cntrmnt Fnd Pabs:						
Cntrmnt Fnd Pcb:						
Cntrmnt Fnd Vocs:						
Cntrmnt Fnd Selenium:						
Cntrmnt Fnd Iron:						
Cntrmnt Fnd Arsenic:						
Cntrmnt Fnd Cadmium:						
Cntrmnt Fnd Chromium:						
Cntrmnt Fnd Copper:						
Cntrmnt Fnd Mercury:						
Cntrmnt Fnd Nickel:						
Cntrmnt Fnd Pesticides:						
Cntrmnt Fnd Svocs:						
Cntrmnt Fnd Other Metals:						
Cntrmnt Fnd Other:						
Cntrmnt Fnd Other Descr :						
Cntrmnt Fnd Unknown:						
Cntrmnt Fnd None:						
Cntrmnt Clnd Up Ctl Sbstr:						
Cntrmnt Clnd Up Petroleum:						
Cntrmnt Clnd Up Asbestos:						
Cntrmnt Clnd Up Lead:						
Cntrmnt Clnd Up PAHs:						
Cntrmnt Clnd Up PCBs:						
Cntrmnt Clnd Up VOCs:						
Cntrmnt Clnd Up Selenium:						
Cntrmnt Clnd Up Iron:						
Cntrmnt Clnd Up Arsenic:						
Cntrmnt Clnd Up Cadmium:						
Cntrmnt Clnd Up Chromium:						
Cntrmnt Clnd Up Copper:						
Cntrmnt Clnd Up Mercury:						
Cntrmnt Clnd Up Nickel:						
Cntrmnt Clnd Up Pesticides:						
Cntrmnt Clnd Up Svocs:						
Cntrmnt Clnd Up Oth Metals:						
Cntrmnt Clnd Up Other:						
Cntrmnt Clnd Up Oth Descr:						
Cntrmnt Clnd Up Unknown:						
Cntrmnt Clnd Up None:						
Media Affected Air:						
Media Affected Sediments:						
Media Affected Soil:						
Media Affect Drnking Wtr:						
Media Affected Grnd Wtr:						
Media Affctd Surf Wtr:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Media Affctd Bldg Matrls:						
Media Affected Indoor Air:						
Media Affected None:						
Media Affected Unknown:						
Media Clnd Up Air:						
Media Clnd Up Sediments:						
Media Clnd Up Soil:						
Media Clnd Up Drnk Wtr:						
Media Clnd Up Grnd Wtr:						
Media Clnd Up Surf Wtr:						
Media Clnd Up Bldg Mats:						
Media Clnd Up Indoor Air:						
Media Clnd Up Unknown:						
St Tribal Prg ID No:						
Further Action Cleanup:						
Enrollment St Tribal Prg:						
Institutional Ctrl ICs Req:						
IC Catgry Proprietary Ctrl:						
IC Catgry Informational Dev:						
IC Catgry Govmntal Ctrl:						
IC Catgry Enfrc Prmt Tls:						
ICs in Place:		U				
Date ICs in Place:						
Photographs are Available:						
Video is Available:						
Description History:			aluminium & brass foundry, metal works			
--Details--						
Grant Recipient Name:		Muskegon Heights, City of				
Accomplishment Counted:		0				
Cooperative Agrment No:		97504101				
Type Brownfields Grant:		Assessment				
Assessment Phase:						
Assessment Start Date:						
Assessment Compltn Dt:						
Src of Assessment Fund:						
Entity Prov Assmnt Fund:						
Assessment Funding Amt:						
Cleanup Start Date:						
Cleanup Completion Date:						
Acres Cleaned Up:						
Cleanup Funding Source:						
Entity Prvd Cleanup Fund:						
Cleanup Funding Amount:						
Redevelopment Start Dt:						
No of Clnup/Redev Jobs:						
Acre/Grnspace Created:						
Src of Redev Funding:						
Entity Prvd Redev Funds:						
Redev Funding Amount:						
Highlights:						
IC Data Address:						
Redev Completion Date:						
Past Use Greenspace Arces:						
Past Use Residential Arces:						
Past Use Commercial Arces:						
Past Use Industrial Arces:						
Past Use Multistory Arces:						
Future Use Multistory Arces:						
Future Use Greenspace:						
Future Use Residential:						
Future Use Commercial:						
Future Use Industrial:						
2010 Below Poverty No:		1747				
2010 Below Poverty Pct:		51.9%				
2010 Median Income:		3367				
2010 Low Income No:		2667				
2010 Low Income Pct:		79.2%				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
2010 Vacant Housing No:		351				
2010 Vac Housing Pct:		22.4%				
2010 Unemployed No:		364				
2010 Unemployed:		10.8%				

34	2 of 2	N	0.46 / 2,426.38	628.13 / -1	SECURITY STEELCRAFT CORP 2636 SANFORD ST MUSKEGON MI 49444	WASTE
Site ID:	MID985618651			Legal Name:	SECURITY STEELCRAFT CORP	
WDS ID:	405744			County:	MUSKEGON	

35	1 of 1	NE	0.46 / 2,442.28	626.06 / -3	EAGLE MACHINE TOOL CORP 200 E BROADWAY AVE MUSKEGON MI 49444	WASTE
Site ID:	MIG000031175			Legal Name:	EAGLE MACHINE TOOL CORP	
WDS ID:	447552			County:	MUSKEGON	

36	1 of 1	WNW	0.48 / 2,526.97	626.48 / -2	Lift Tech International Inc 414 W BROADWAY MUSKEGON HTS MI 49443	LUST
Facility ID:	00014541			Facility County:	Muskegon	
Active Tanks:				Facility District:	Grand Rapids	
Desc Category:	Plant Entrance (Freight)			Latitude:	43.2012420000	
Facility Phone:	(616) 733-0821			Longitude:	-86.2550040000	
Owner Address:	414 W BROADWAY			Horizontal Datum:	NAD83	
Owner City:	MUSKEGON HTS			Point Line Area:	POINT	
Owner State:	MI			Accuracy:	100	
Owner Zip:	49443			Accuracy Unit:	FEET	
Owner Country:	USA			Date of Collection:	01-11-2001	
Owner Contact:				Source:	STATE OF MICHIGAN	
Owner Phone:	(616) 733-0821					
Owner Name:	Lift Tech Intl Inc					
Facility Contact Person:						
GIS Collection:	Address Matching-House Number					
Data Source:	DEQ Leaking Underground Storage Tanks Download ; DEQ Leaking Underground Storage Tanks Site Search					

DEQ LUST Closed (Download)

Leak ID:	C-1389-85	Release Closed Date:	Oct 12 1995
Release Status:	Closed	Substance Released:	
Release Date:	Dec 18 1989	LUST Site Name:	Lift-Tech International

DEQ LUST Closed Releases (Site Search)

Leak ID:	C-1389-85	Discovery Date:	12/18/1989
Release Status:	Closed	Substance Released:	
Closed Date:	10/12/1995	Land Use Restrict:	NONE
Evaluation:	Type C Evaluation	LUST Site Name:	Lift-Tech International

DEQ LUST Closed Tanks (Site Search)

Tank ID:	1	Capacity In Gallons:	20000
Tank Status:	Closed in Ground	Piping Type:	
Installation Date:	5/21/1960 12:00:00 AM	Impressed Device:	No
Substance Stored:	Used Oil,& 90%H2O MACHINING C,		
Tank Release Detection:	RELEASE OBSERVED DUR		
Piping Release Detection:			

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Piping Material:		Bare Steel				
Construction Material:		Asphalt Coated or Bare Steel				
37	1 of 1	NW	0.48 / 2,546.41	625.67 / -3	VERSITILE FAB 2708 9TH ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID:	MIG000008878			Legal Name:	VERSITILE FAB	
WDS ID:	457456			County:	MUSKEGON	
38	1 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 E. Broadway Avenue 210 E. Broadway Avenue MI	BEA
BEA No:	200501562GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	210 E. Broadway Avenue					
38	2 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 E. Broadway Avenue 210 E. Broadway Avenue MI	BEA
BEA No:	200501563GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	210 E. Broadway Avenue					
38	3 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 East Broadway 210 East Broadway MI 49444	BEA
BEA No:	200601759GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon			Longitude:		
Facility Name:	210 East Broadway					
38	4 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 East Broadway 210 East Broadway MI	BEA
BEA No:	200000771GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	210 East Broadway					
38	5 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 East Broadway 210 East Broadway MI	BEA
BEA No:	200000772GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	210 East Broadway					

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
38	6 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 East Broadway Avenue 210 East Broadway Avenue MI	BEA
BEA No: 200802330GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000506		County: Muskegon		District: Grand Rapids		
Data Source: BEA		County: Muskegon		District: Grand Rapids		
Township: Muskegon Heights		County: Muskegon		District: Grand Rapids		
Facility Name: 210 East Broadway Avenue		County: Muskegon		District: Grand Rapids		
38	7 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 East Broadway Avenue 210 East Broadway Avenue MI	BEA
BEA No: 199900626GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000506		County: Muskegon		District: Grand Rapids		
Data Source: BEA		County: Muskegon		District: Grand Rapids		
Township: Muskegon Heights		County: Muskegon		District: Grand Rapids		
Facility Name: 210 East Broadway Avenue		County: Muskegon		District: Grand Rapids		
38	8 of 9	ENE	0.48 / 2,551.73	626.07 / -3	210 E Broadway 210 E. Broadway Muskegon MI 49444	SHWS
Facility ID: 61000506		County: Muskegon		District: Grand Rapids		
Data Source: Part 201		County: Muskegon		District: Grand Rapids		
Latitude: 43.20145		County: Muskegon		District: Grand Rapids		
Longitude: -86.23743		County: Muskegon		District: Grand Rapids		
Facility Name: 210 E Broadway		County: Muskegon		District: Grand Rapids		
38	9 of 9	ENE	0.48 / 2,551.73	626.07 / -3	TOOLING TECHNOLOGIES INTERNATIONAL 210 E BROADWAY AVE MUSKEGON MI 49444	WASTE
Site ID: MIG000041616		Legal Name: TOOLING TECHNOLOGIES INTERNATIONAL		County: MUSKEGON		
WDS ID: 416737		Legal Name: TOOLING TECHNOLOGIES INTERNATIONAL		County: MUSKEGON		
39	1 of 1	SE	0.49 / 2,564.45	605.68 / -23	CORGAN GARAGE 3301 MERRIAM ST MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: MIG000038326		Legal Name: CORGAN GARAGE		County: MUSKEGON		
WDS ID: 444206		Legal Name: CORGAN GARAGE		County: MUSKEGON		
40	1 of 6	WNW	0.49 / 2,595.18	627.18 / -2	Lift-Tech International, Inc. 414 West Broadway Avenue MI	BEA
BEA No: 199500039GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000506		County: Muskegon		District: Grand Rapids		
Data Source: BEA		County: Muskegon		District: Grand Rapids		
Township: Muskegon Heights		County: Muskegon		District: Grand Rapids		
Facility Name: Lift-Tech International, Inc.		County: Muskegon		District: Grand Rapids		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
40	2 of 6	WNW	0.49 / 2,595.18	627.18 / -2	414 W Broadway Avenue 414 W Broadway Avenue MI 49444	BEA
BEA No: 201002794GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000082		Latitude: 43.20212		Longitude: -86.25539		
Data Source: BEA						
Township: Muskegon Heights						
Facility Name: 414 W Broadway Avenue						
40	3 of 6	WNW	0.49 / 2,595.18	627.18 / -2	414 West Broadway Avenue 414 West Broadway Avenue MI 49444	BEA
BEA No: 201403819GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000082		Latitude: 43.20212		Longitude: -86.25539		
Data Source: BEA						
Township: Muskegon Heights						
Facility Name: 414 West Broadway Avenue						
40	4 of 6	WNW	0.49 / 2,595.18	627.18 / -2	414 West Broadway Avenue 414 West Broadway Avenue MI 49444	BEA
BEA No: 201403818GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000082		Latitude: 43.20212		Longitude: -86.25539		
Data Source: BEA						
Township: Muskegon Heights						
Facility Name: 414 West Broadway Avenue						
40	5 of 6	WNW	0.49 / 2,595.18	627.18 / -2	LIFT-TECH INTERNATIONAL 414 WEST BROADWAY AVENUE MUSKEGON MI 49444	PCB
Handler ID: MID006406961		Mail Street 1: PO BOX 769				
Receive Date: 5/2/2000		Mail Street 2:				
Generator: Yes		Mail City: MUSKEGON				
Storer:		Mail State: MI				
Transporter:		Mail Zip: 49443-0769				
Disposer:		Mail Country: US				
Research:		Contact Name: DEBORAH BOSMA				
Smelter:		Contact Title:				
Cert Title:		Contact Phone: (231)733-3246				
Cert Date: 12/14/1999		Contact Phone Ext:				
Cert Name:		Owner Name: COLUMBUS MCKINNON CORP.				
Location Country: US						
40	6 of 6	WNW	0.49 / 2,595.18	627.18 / -2	YALE LIFT TECH 414 W BROADWAY AVE MUSKEGON HEIGHTS MI 49444	WASTE
Site ID: MID006406961		Legal Name: YALE LIFT TECH				
WDS ID: 394190		County: MUSKEGON				
41	1 of 2	N	0.51 / 2,676.68	628.13 / -1	2608 Sanford Street 2608 Sanford Street MI 49444	BEA
BEA No: 201804831GR		County: Muskegon		District: Grand Rapids		
Facility ID:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	2608 Sanford Street					
41	2 of 2	N	0.51 / 2,676.68	628.13 / -1	2608 Sanford Street 2608 Sanford Street MI 49444	BEA
BEA No:	201804832GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	2608 Sanford Street					
42	1 of 1	S	0.54 / 2,841.51	612.33 / -17	100 Seaway Drive 100 Seaway Drive MI 49444	BEA
BEA No:	200000803GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Hts			Longitude:		
Facility Name:	100 Seaway Drive					
43	1 of 1	S	0.54 / 2,859.81	615.99 / -13	Valu Inn Motel 150 Seaway Drive MI	BEA
BEA No:	199700197GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	Valu Inn Motel					
44	1 of 3	SSE	0.55 / 2,914.49	590.22 / -39	80 East Seaway Drive 80 East Seaway Drive (Old Peck Street Landfill) MI	BEA
BEA No:	200401407GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	80 East Seaway Drive					
44	2 of 3	SSE	0.55 / 2,914.49	590.22 / -39	80 East Seaway Drive 80 East Seaway Drive (Old Peck Street Landfill) MI	BEA
BEA No:	200401408GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon Heights			Longitude:		
Facility Name:	80 East Seaway Drive					
44	3 of 3	SSE	0.55 / 2,914.49	590.22 / -39	Peck Street. Landfill Peck Street & Seaway Drive	SHWS

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Muskegon Heights MI 49444						
Facility ID:	61000038				County:	Muskegon
Data Source:	Part 201				Township:	temptownship
Latitude:	43.19016				District:	Grand Rapids
Longitude:	-86.24512				Baseline Assess No:	
Facility Name:	Peck Street. Landfill					
45	1 of 2	S	0.56 / 2,951.27	610.41 / -18	131 Seaway Drive 131 Seaway Drive MI 49444	BEA
BEA No:	201103046GR				County:	Muskegon
Facility ID:	61000057				District:	Grand Rapids
Data Source:	BEA				Latitude:	43.18808
Township:	Norton Shores				Longitude:	-86.24906
Facility Name:	131 Seaway Drive					
45	2 of 2	S	0.56 / 2,951.27	610.41 / -18	131 Seaway Drive 131 Seaway Drive MI	BEA
BEA No:	200802383GR				County:	Muskegon
Facility ID:					District:	Grand Rapids
Data Source:	BEA				Latitude:	
Township:	Muskegon				Longitude:	
Facility Name:	131 Seaway Drive					
46	1 of 1	NNE	0.57 / 3,002.82	628.28 / -1	Ashendorf Service Station (Former) 2545 Peck Street Muskegon Heights MI 49444	DELISTED SHWS
Facility ID:	61000314				County:	Muskegon
Baseline Assess No:					Township:	Muskegon Hts
Data Source:	Part 201				District:	Grand Rapids
Source:					Latitude:	43.20601
Score Out of 48:					Longitude:	-86.24473
Score Date:						
Overall Status:						
Pollutant:						
Original Source:	SHWS					
Record Date:	27-JAN-2017					
47	1 of 1	SSE	0.57 / 3,010.28	584.84 / -44	82, 84 & 86 East Seaway Drive 82, 84 & 86 East Seaway Drive MI	BEA
BEA No:	200201036GR				County:	Muskegon
Facility ID:					District:	Grand Rapids
Data Source:	BEA				Latitude:	
Township:	Muskegon Hts				Longitude:	
Facility Name:	82, 84 & 86 East Seaway Drive					
48	1 of 1	NNW	0.58 / 3,050.22	624.96 / -4	274 West Sherman Boulevard 274 West Sherman Boulevard MI 49444	BEA
BEA No:	201203242GR				County:	Muskegon

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Facility ID: Data Source: Township: Facility Name:	61000420 BEA Muskegon Heights 274 West Sherman Boulevard			District: Latitude: Longitude:	Grand Rapids 43.20551 -86.25135	
49	1 of 1	NNW	0.58 / 3,066.36	624.96 / -4	274 W Sherman/2529 7th/2532 8th Streets 274 W Sherman Blvd & 2529 7th Street 2532 8th Street MI 49444	BEA
BEA No: Facility ID: Data Source: Township: Facility Name:	200501628GR 61000420 BEA Muskegon Heights 274 W Sherman/2529 7th/2532 8th Streets			County: District: Latitude: Longitude:	Muskegon Grand Rapids 43.20551 -86.25135	
50	1 of 1	NNE	0.58 / 3,068.29	628.31 / -1	2536 Peck Street 2536 Peck Street Muskegon Heights MI 49444	SHWS
Facility ID: Data Source: Latitude: Longitude: Facility Name:	61000433 Part 201 43.20455 -86.24476 2536 Peck Street			County: Township: District: Baseline Assess No:	Muskegon Muskegon Heights Grand Rapids	
51	1 of 1	NW	0.58 / 3,081.85	624.64 / -4	2632 Park Street 2632 Park Street MI	BEA
BEA No: Facility ID: Data Source: Township: Facility Name:	201002840GR BEA Muskegon Heights 2632 Park Street			County: District: Latitude: Longitude:	Muskegon Grand Rapids	
52	1 of 1	SSW	0.59 / 3,115.93	627.60 / -1	267 Seminole Road (See Comments) 267 Seminole Road MI 49444	BEA
BEA No: Facility ID: Data Source: Township: Facility Name:	201804767GR BEA Norton Shores 267 Seminole Road (See Comments)			County: District: Latitude: Longitude:	Muskegon Grand Rapids	
53	1 of 2	ENE	0.59 / 3,132.05	625.60 / -3	Former Universal Camshaft 350 E Broadway MI 49444	BEA
BEA No: Facility ID: Data Source: Township: Facility Name:	200201012GR BEA Muskegon Hts Former Universal Camshaft			County: District: Latitude: Longitude:	Muskegon Grand Rapids	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
53	2 of 2	ENE	0.59 / 3,132.05	625.60 / -3	Former Universal Camshaft 350 E. Broadway MI 49444	BEA
BEA No: 200201013GR Facility ID: Data Source: BEA Township: Muskegon Hts Facility Name: Former Universal Camshaft				County: Muskegon District: Grand Rapids Latitude: Longitude:		
54	1 of 3	SSW	0.61 / 3,194.80	622.96 / -6	Eastowne of Norton Shores 211 Seaway Drive, Unit 6 MI 49444	BEA
BEA No: 200902480GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: Eastowne of Norton Shores				County: Muskegon District: Grand Rapids Latitude: Longitude:		
54	2 of 3	SSW	0.61 / 3,194.80	622.96 / -6	211 Seaway Drive 211 Seaway Drive MI 49444	BEA
BEA No: 201403663GR Facility ID: 61000057 Data Source: BEA Township: Norton Shores Facility Name: 211 Seaway Drive				County: Muskegon District: Grand Rapids Latitude: 43.18808 Longitude: -86.24906		
54	3 of 3	SSW	0.61 / 3,194.80	622.96 / -6	Eastowne Development Seminole Rd/Seaway Drive Norton Shores MI 49444	SHWS
Facility ID: 61000503 Data Source: Part 201 Latitude: 43.18884 Longitude: -86.25040 Facility Name: Eastowne Development				County: Muskegon Township: Norton Shores District: Grand Rapids Baseline Assess No:		
55	1 of 1	E	0.61 / 3,216.78	616.13 / -13	TRICIL ENVIRONMENTAL SERVICES 3030 WOOD ST MUSKEGON HEIGHTS MI 49444	RCRA CORRACTS
EPA Handler ID: MID072585755 Gen Status Universe: No Report Contact Name: NELSON WALLIS Contact Address: 3030 WOOD ST, , MUSKEGON HEIGHTS, MI, 49444, US Contact Phone No and Ext: 614-876-1168 Contact Email: Contact Country: US County Name: MUSKEGON EPA Region: 05 Land Type: Receive Date:						

Event/Area Details

Area Name: ENTIRE FACILITY

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
Event Code:		CA170				
Corrective Action Event Descri:		INVESTIGATION SUPPLEMENTAL INFO DEEMED SATISFACT				
Actual Date of Event:		20040407				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20040407				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA100DC				
Corrective Action Event Descri:		RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL				
Actual Date of Event:		19860529				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		19860529				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		GROUNDWATER				
Event Code:		CA190				
Corrective Action Event Descri:		INVESTIGATION REPORT RECEIVED				
Actual Date of Event:		20050516				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20050516				
Groundwater Release Indicator:		No				
Soil Release Indicator:		No				
Air Release Indicator:		No				
Surface Waste Release Ind:		No				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA190				
Corrective Action Event Descri:		INVESTIGATION REPORT RECEIVED				
Actual Date of Event:		20050516				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20050516				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA075ME				
Corrective Action Event Descri:		CA PRIORITIZATION-MEDIUM CA PRIORITY				
Actual Date of Event:		19921229				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		19921229				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		EPA				
Area Name:		GROUNDWATER				
Event Code:		CA196				
Corrective Action Event Descri:		RFI REPORT MOD REQUESTED BY AGENCY				
Actual Date of Event:		20051027				
Orig Sched Event Date:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
New Sched Event Date:						
Best Date:		20051027				
Groundwater Release Indicator:		No				
Soil Release Indicator:		No				
Air Release Indicator:		No				
Surface Waste Release Ind:		No				
Event Responsible Agency:		State				
Area Name:		GROUNDWATER				
Event Code:		CA200				
Corrective Action Event Descri:		INVESTIGATION COMPLETE				
Actual Date of Event:		19900710				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		19900710				
Groundwater Release Indicator:		No				
Soil Release Indicator:		No				
Air Release Indicator:		No				
Surface Waste Release Ind:		No				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA200				
Corrective Action Event Descri:		INVESTIGATION COMPLETE				
Actual Date of Event:		20070918				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20070918				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA097				
Corrective Action Event Descri:		QA-QC PLAN DUE-RECEIVED				
Actual Date of Event:		20020425				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20020425				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA110				
Corrective Action Event Descri:		INVESTIGATION WORKPLAN RECEIVED				
Actual Date of Event:		20040817				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20040817				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA150				
Corrective Action Event Descri:		INVESTIGATION WORKPLAN APPROVED				
Actual Date of Event:		20041220				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20041220				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA497				
Corrective Action Event Descri:		CMI MODIFICATION REQUESTED				
Actual Date of Event:		20070820				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20070820				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		GROUNDWATER				
Event Code:		CA100DC				
Corrective Action Event Descri:		RFI IMPOSITION-FOCUSED DATA COLLECTION REQ STAB EVAL				
Actual Date of Event:		19860529				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		19860529				
Groundwater Release Indicator:		No				
Soil Release Indicator:		No				
Air Release Indicator:		No				
Surface Waste Release Ind:		No				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA190				
Corrective Action Event Descri:		INVESTIGATION REPORT RECEIVED				
Actual Date of Event:		20070220				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20070220				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA496				
Corrective Action Event Descri:		CMI WORKPLAN DUE-RECEIVED				
Actual Date of Event:		20070427				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20070427				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA496				
Corrective Action Event Descri:		CMI WORKPLAN DUE-RECEIVED				
Actual Date of Event:		20071211				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20071211				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Area Name:		ENTIRE FACILITY				
Event Code:		CA497				
Corrective Action Event Descri:		CMI MODIFICATION REQUESTED				
Actual Date of Event:		20080410				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20080410				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA110				
Corrective Action Event Descri:		INVESTIGATION WORKPLAN RECEIVED				
Actual Date of Event:		20041119				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20041119				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA190				
Corrective Action Event Descri:		INVESTIGATION REPORT RECEIVED				
Actual Date of Event:		20040114				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20040114				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA196				
Corrective Action Event Descri:		RFI REPORT MOD REQUESTED BY AGENCY				
Actual Date of Event:		20051027				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20051027				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		ENTIRE FACILITY				
Event Code:		CA120				
Corrective Action Event Descri:		INVESTIGATION WORKPLAN MODIFICATION REQ BY AGENCY				
Actual Date of Event:		20041001				
Orig Sched Event Date:						
New Sched Event Date:						
Best Date:		20041001				
Groundwater Release Indicator:		Yes				
Soil Release Indicator:		Yes				
Air Release Indicator:		Yes				
Surface Waste Release Ind:		Yes				
Event Responsible Agency:		State				
Area Name:		GROUNDWATER				
Event Code:		CA190				
Corrective Action Event Descri:		INVESTIGATION REPORT RECEIVED				
Actual Date of Event:		19860529				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Orig Sched Event Date:
New Sched Event Date:
Best Date: 19860529
Groundwater Release Indicator: No
Soil Release Indicator: No
Air Release Indicator: No
Surface Waste Release Ind: No
Event Responsible Agency: State

Area Name: ENTIRE FACILITY
Event Code: CA070NO
Corrective Action Event Descr: DETERMINATION OF NEED FOR AN INVESTIGATION-INVESTIGATION IS NOT NECESSARY
Actual Date of Event: 20090501
Orig Sched Event Date:
New Sched Event Date:
Best Date: 20090501
Groundwater Release Indicator: Yes
Soil Release Indicator: Yes
Air Release Indicator: Yes
Surface Waste Release Ind: Yes
Event Responsible Agency: EPA

Violation/Evaluation Summary

Note: VIOLATION or UNDETERMINED: There are VIOLATION or UNDETERMINED details or records associated with this facility (EPA ID) in the Compliance Monitoring and Enforcement table dated Aug, 2018.

Violation Details

Citation:
Violation Short Description: State Statute or Regulation
Violation Determined Date: 20011218
Return to Compliance Date:
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 20011218
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: TSD - General
Violation Determined Date: 19900629
Return to Compliance Date: 19900731
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19900711
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Paid Amount:

Violation Details

Citation:
Violation Short Description: TSD - Financial Requirements
Violation Determined Date: 19890929
Return to Compliance Date: 19900214
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19891004
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: TSD - General
Violation Determined Date: 19910910
Return to Compliance Date: 19911213
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19910911
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Citation:
Violation Short Description: TSD - Closure/Post-Closure
Violation Determined Date: 19900629
Return to Compliance Date: 19900731
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19900711
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Violation Details

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Citation:
Violation Short Description: TSD - Financial Requirements
Violation Determined Date: 19900726
Return to Compliance Date: 19900907
Violation Responsible Agency: State

Enforcement Details

Enforcement Type Description: WRITTEN INFORMAL
Enforcement Action Date: 19900726
Enf Disposition Status:
Disposition Status Date:
Enforcement Lead Agency:
Proposed Penalty Amount:
Final Amount:
Paid Amount:

Evaluation Details

Evaluation Start Date: 20011218
Evaluation Type Description: NON-FINANCIAL RECORD REVIEW
Violation Short Description: State Statute or Regulation
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 20010516
Evaluation Type Description: FOCUSED COMPLIANCE INSPECTION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19970519
Evaluation Type Description: CORRECTIVE ACTION COMPLIANCE EVALUATION
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19950426
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19940303
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19931208
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19930907
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Evaluation Start Date: 19930527
Evaluation Type Description: COMPLIANCE EVALUATION INSPECTION ON-SITE
Violation Short Description:
Return to Compliance Date:
Evaluation Agency: State

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19930329 FINANCIAL RECORD REVIEW				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19930302 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19921209 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19920917 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19920612 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19920310 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19920306 NON-FINANCIAL RECORD REVIEW				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19920219 NON-FINANCIAL RECORD REVIEW				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19911220 COMPLIANCE EVALUATION INSPECTION ON-SITE				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19911104 NON-FINANCIAL RECORD REVIEW				
Evaluation Start Date: Evaluation Type Description: Violation Short Description: Return to Compliance Date: Evaluation Agency:		19910910 COMPLIANCE EVALUATION INSPECTION ON-SITE TSD - General				
Evaluation Start Date: Evaluation Type Description: Violation Short Description:		19911213 State				
Evaluation Start Date: Evaluation Type Description: Violation Short Description:		19910213 COMPLIANCE EVALUATION INSPECTION ON-SITE				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19910208				
Evaluation Type Description:		FINANCIAL RECORD REVIEW				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19901218				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19900913				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19900907				
Evaluation Type Description:		COMPLIANCE SCHEDULE EVALUATION				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19900726				
Evaluation Type Description:		FINANCIAL RECORD REVIEW				
Violation Short Description:		TSD - Financial Requirements				
Return to Compliance Date:		19900907				
Evaluation Agency:		State				
Evaluation Start Date:		19900629				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		TSD - Closure/Post-Closure				
Return to Compliance Date:		19900731				
Evaluation Agency:		State				
Evaluation Start Date:		19900629				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:		TSD - General				
Return to Compliance Date:		19900731				
Evaluation Agency:		State				
Evaluation Start Date:		19900323				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19900214				
Evaluation Type Description:		COMPLIANCE SCHEDULE EVALUATION				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19891227				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19890929				
Evaluation Type Description:		FINANCIAL RECORD REVIEW				
Violation Short Description:		TSD - Financial Requirements				
Return to Compliance Date:		19900214				
Evaluation Agency:		State				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Evaluation Start Date:		19890707				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19890329				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19881130				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19880804				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
Evaluation Start Date:		19871208				
Evaluation Type Description:		COMPLIANCE EVALUATION INSPECTION ON-SITE				
Violation Short Description:						
Return to Compliance Date:						
Evaluation Agency:		State				
<u>Handler Summary</u>						
Importer Activity:		No				
Mixed Waste Generator:		No				
Transporter Activity:		No				
Transfer Facility:		No				
Onsite Burner Exemption:		No				
Furnace Exemption:		No				
Underground Injection Activity:		No				
Commercial TSD:		No				
Used Oil Transporter:		No				
Used Oil Transfer Facility:		No				
Used Oil Processor:		No				
Used Oil Refiner:		No				
Used Oil Burner:		No				
Used Oil Market Burner:		No				
Used Oil Spec Marketer:		No				
<u>Hazardous Waste Handler Details</u>						
Sequence No:		1				
Receive Date:		19801120				
Handler Name:		TRICIL ENVIRONMENTAL SERVICES				
Generator Status Universe:		No Report				
Source Type:		A				
Sequence No:		4				
Receive Date:		19950807				
Handler Name:		TRICIL ENVIRONMENTAL SERVICES				
Generator Status Universe:		No Report				
Source Type:		I				
Sequence No:		3				
Receive Date:		20011231				
Handler Name:		TRICIL ENVIRONMENTAL SERVICES				
Generator Status Universe:		No Report				
Source Type:		I				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
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Sequence No: 2
 Receive Date: 19800818
 Handler Name: TRICIL ENVIRONMENTAL SERVICES
 Generator Status Universe: No Report
 Source Type: N

Waste Code Details

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Hazardous Waste Code: D001
 Waste Code Description: IGNITABLE WASTE

Owner/Operator Details

Owner/Operator Ind:	Current Operator	Street No:
Type:	Private	Street 1:
Name:	TRICIL ENVIRONMENTAL SERVICES INC	Street 2:
Date Became Current:	19700101	City:
Date Ended Current:		State:
Phone:		Country:
Source Type:	I	Zip Code:

Owner/Operator Ind:	Current Operator	Street No:
Type:	Private	Street 1:
Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE	Street 2:
Date Became Current:	20020101	City:
Date Ended Current:		State:
Phone:		Country:
Source Type:	A	Zip Code:

Owner/Operator Ind:	Current Owner	Street No:
Type:	Private	Street 1:
Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE	Street 2:
Date Became Current:	20020101	City:
Date Ended Current:		State:
Phone:		Country:
Source Type:	I	Zip Code:

Owner/Operator Ind:	Current Owner	Street No:
Type:	Private	Street 1:
Name:	TRICIL ENVIRONMENTAL SERVICES INC	Street 2:
Date Became Current:	19700101	City:
Date Ended Current:		State:
Phone:		Country:
Source Type:	A	Zip Code:

Owner/Operator Ind:	Current Operator	Street No:
Type:	Private	Street 1:
Name:	NO ACTIVE O/OP AS NOT GENERATING WASTE	Street 2:
Date Became Current:	20020101	City:
Date Ended Current:		State:
Phone:		Country:
Source Type:	N	Zip Code:

Owner/Operator Ind:	Current Owner	Street No:
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Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Private TRICIL ENVIRONMENTAL SERVICES INC 19700101 N				Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Owner Private NO ACTIVE O/OP AS NOT GENERATING WASTE 20020101 A				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Operator Private NO ACTIVE O/OP AS NOT GENERATING WASTE 20020101 I				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Operator Private TRICIL ENVIRONMENTAL SERVICES INC 19700101 A				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Operator Private TRICIL ENVIRONMENTAL SERVICES INC 19700101 N				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Owner Private NO ACTIVE O/OP AS NOT GENERATING WASTE 20020101 N				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
Owner/Operator Ind: Type: Name: Date Became Current: Date Ended Current: Phone: Source Type:	Current Owner Private TRICIL ENVIRONMENTAL SERVICES INC 19700101 I				Street No: Street 1: Street 2: City: State: Country: Zip Code:	
56	1 of 1	NW	0.61 / 3,221.06	624.19 / -5	2620 Park Street 2620 Park Street MI 49444	BEA
BEA No: Facility ID: Data Source: Township: Facility Name:	201203224GR BEA Muskegon Heights 2620 Park Street			County: District: Latitude: Longitude:	Muskegon Grand Rapids	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
57	1 of 1	E	0.62 / 3,255.35	600.90 / -28	Muskegon Heights WWTP - Wood Street 3030 - 3124 Wood Street Muskegon Heights MI 49444	SHWS
Facility ID:	61000415			County:	Muskegon	
Data Source:	Part 201			Township:	Muskegon Heights	
Latitude:	43.19712			District:	Grand Rapids	
Longitude:	-86.23515			Baseline Assess No:		
Facility Name:	Muskegon Heights WWTP - Wood Street					
58	1 of 1	ENE	0.62 / 3,263.99	625.60 / -3	Muskegon Heights DTE MGP Site 350 Broadway Muskegon Heights MI	SHWS
Facility ID:	61000408			County:	Muskegon	
Data Source:	Part 201			Township:	Muskegon Heights	
Latitude:	43.20259			District:	Grand Rapids	
Longitude:	-86.23663			Baseline Assess No:		
Facility Name:	Muskegon Heights DTE MGP Site					
59	1 of 1	ESE	0.62 / 3,293.28	592.24 / -37	City of Muskegon Heights DPW 3124 Wood Street Muskegon Heights MI 49444	SHWS
Facility ID:	61000129			County:	Muskegon	
Data Source:	Part 201			Township:	Muskegon Heights	
Latitude:	43.19524			District:	Grand Rapids	
Longitude:	-86.23453			Baseline Assess No:		
Facility Name:	City of Muskegon Heights DPW					
60	1 of 1	SSW	0.64 / 3,362.72	623.45 / -5	3540 Mona Kai (Thompson Landfill) 3540 Mona Kai MI	BEA
BEA No:	199900619GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	3540 Mona Kai (Thompson Landfill)					
61	1 of 1	SSW	0.64 / 3,378.56	613.25 / -16	Thompson Landfill 3588-3593 Mona Kai MI	BEA
BEA No:	199800325GR			County:	Muskegon	
Facility ID:	61000057			District:	Grand Rapids	
Data Source:	BEA			Latitude:	43.18808	
Township:	Norton Shores			Longitude:	-86.24906	
Facility Name:	Thompson Landfill					
62	1 of 4	SSW	0.64 / 3,387.36	607.82 / -21	267 Seminole - a portion of 267 Seminole - a portion of MI	BEA
BEA No:	200601748GR			County:	Muskegon	
Facility ID:	61000057			District:	Grand Rapids	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Data Source:	BEA			Latitude:	43.18808	
Township:	Norton Shores			Longitude:	-86.24906	
Facility Name:	267 Seminole - a portion of					
62	2 of 4	SSW	0.64 / 3,387.36	607.82 / -21	267 Seminole - a portion of 267 Seminole - a portion of MI	BEA
BEA No:	200601749GR			County:	Muskegon	
Facility ID:	61000057			District:	Grand Rapids	
Data Source:	BEA			Latitude:	43.18808	
Township:	Norton Shores			Longitude:	-86.24906	
Facility Name:	267 Seminole - a portion of					
62	3 of 4	SSW	0.64 / 3,387.36	607.82 / -21	267 Seminole - a portion of 267 Seminole - a portion of MI	BEA
BEA No:	200601750GR			County:	Muskegon	
Facility ID:	61000057			District:	Grand Rapids	
Data Source:	BEA			Latitude:	43.18808	
Township:	Norton Shores			Longitude:	-86.24906	
Facility Name:	267 Seminole - a portion of					
62	4 of 4	SSW	0.64 / 3,387.36	607.82 / -21	267 Seminole Drive 267 Seminole Drive MI	BEA
BEA No:	200501629GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	267 Seminole Drive					
63	1 of 4	SSW	0.64 / 3,392.76	624.93 / -4	255 Seminole (Thompson Landfill) 255 Seminole MI	BEA
BEA No:	199800433GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	255 Seminole (Thompson Landfill)					
63	2 of 4	SSW	0.64 / 3,392.76	624.93 / -4	255 Seminole Drive 255 Seminole Drive MI	BEA
BEA No:	200702126GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	255 Seminole Drive					
63	3 of 4	SSW	0.64 / 3,392.76	624.93 / -4	255 Seminole Drive 255 Seminole Drive (Thompson Landfill) MI	BEA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
BEA No: 200601947GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: 255 Seminole Drive County: Muskegon District: Grand Rapids Latitude: Longitude:						
63	4 of 4	SSW	0.64 / 3,392.76	624.93 / -4	255 Seminole Road 255 Seminole Road MI 49444	BEA
BEA No: 201504198GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: 255 Seminole Road County: Muskegon District: Grand Rapids Latitude: Longitude:						
64	1 of 1	S	0.64 / 3,393.84	617.05 / -12	Thompson Inc. LF Seminole Rd. Norton Shores MI 49441	SHWS
Facility ID: 61000057 Data Source: Part 201 Latitude: 43.18808 Longitude: -86.24906 Facility Name: Thompson Inc. LF County: Muskegon Township: Norton Shores District: Grand Rapids Baseline Assess No:						
65	1 of 3	ENE	0.65 / 3,457.49	625.12 / -4	2724 Riordan Street 2724 Riordan Street MI 49444	BEA
BEA No: 200401530GR Facility ID: 61000419 Data Source: BEA Township: Muskegon Heights Facility Name: 2724 Riordan Street County: Muskegon District: Grand Rapids Latitude: 43.20245 Longitude: -86.23560						
65	2 of 3	ENE	0.65 / 3,457.49	625.12 / -4	2724 Riordan Street 2724 Riordan Street MI 49444	BEA
BEA No: 200401531GR Facility ID: 61000419 Data Source: BEA Township: Muskegon Heights Facility Name: 2724 Riordan Street County: Muskegon District: Grand Rapids Latitude: 43.20245 Longitude: -86.23560						
65	3 of 3	ENE	0.65 / 3,457.49	625.12 / -4	2724 Riordan Street 2724 Riordan Street Muskegon Heights MI 49444	SHWS
Facility ID: 61000419 Data Source: Part 201 Latitude: 43.20245 Longitude: -86.23560 Facility Name: 2724 Riordan Street County: Muskegon Township: Muskegon Heights District: Grand Rapids Baseline Assess No:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
66	1 of 1	N	0.66 / 3,489.33	628.36 / -1	2501 Peck Street 2501 Peck Street MI 49444	BEA
BEA No: 200802257GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Facility Name: 2501 Peck Street		
67	1 of 1	NW	0.66 / 3,505.75	625.17 / -4	2625 Temple Street 2625 Temple Street MI 49444	BEA
BEA No: 201002801GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Facility Name: 2625 Temple Street		
68	1 of 1	NNW	0.69 / 3,621.78	623.17 / -6	2546 Park Street 2546 Park Street MI	BEA
BEA No: 199800405GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Facility Name: 2546 Park Street		
69	1 of 1	SSW	0.69 / 3,629.06	620.45 / -8	Unit 4, Eastowne of Norton Shores Seminole Road and Mona Kai Blvd. MI 49444	BEA
BEA No: 200401539GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Norton Shores		Longitude:		Facility Name: Unit 4, Eastowne of Norton Shores		
70	1 of 2	NW	0.69 / 3,643.84	623.63 / -5	481 West Sherman Blvd. 481 West Sherman Blvd. MI 49444	BEA
BEA No: 201503941GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Facility Name: 481 West Sherman Blvd.		
70	2 of 2	NW	0.69 / 3,643.84	623.63 / -5	481 West Sherman Blvd. 481 West Sherman Blvd. MI 49444	BEA
BEA No: 201503940GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Facility Name: 481 West Sherman Blvd.		

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
71	1 of 1	NNW	0.71 / 3,732.11	622.81 / -6	2525 Park Street 2525 Park Street MI 49444	BEA
BEA No: 200000793GR Facility ID: Data Source: BEA Township: Muskegon Hts Facility Name: 2525 Park Street				County: Muskegon District: Grand Rapids Latitude: Longitude:		
72	1 of 2	NW	0.71 / 3,735.30	623.51 / -5	480 West Sherman Boulevard 480 West Sherman Boulevard MI 49444	BEA
BEA No: 200401495GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 480 West Sherman Boulevard				County: Muskegon District: Grand Rapids Latitude: Longitude:		
72	2 of 2	NW	0.71 / 3,735.30	623.51 / -5	West Sherman Avenue 480 West Sherman Muskegon Heights MI 49444	SHWS
Facility ID: 61000382 Data Source: Part 201 Latitude: 43.20530 Longitude: -86.25548 Facility Name: West Sherman Avenue				County: Muskegon Township: Muskegon Hts District: Grand Rapids Baseline Assess No:		
73	1 of 1	ENE	0.71 / 3,746.24	625.34 / -4	Bennett Pump 2740 Wood St Muskegon Heights MI 49444-2258	DELISTED SHWS
Facility ID: 61000117 Baseline Assess No: Data Source: Petroleum Products Source: 30 Score Out of 48: 7/18/2006 Score Date: Overall Status: See Leaking Underground Storage Tank Site Database Pollutant: 1,2,4 TMB; 1,3,5 TMB; As; Cd; Ethylbenzene; Pb; Toluene; Xylenes Original Source: SHWS Record Date: 19-FEB-2014				County: Muskegon Township: District: Latitude: Longitude:		
74	1 of 2	NNW	0.72 / 3,813.36	622.72 / -6	2524 Park Street 2524 Park Street MI 49444	BEA
BEA No: 201403881GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 2524 Park Street				County: Muskegon District: Grand Rapids Latitude: Longitude:		
74	2 of 2	NNW	0.72 / 3,813.36	622.72 / -6	2524 Park Street 2524 Park Street	BEA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
<hr/>						
MI 49444						
BEA No:	201403882GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	
Township:	Muskegon Heights				Longitude:	
Facility Name:	2524 Park Street					
<hr/>						
75	1 of 2	ENE	0.75 / 3,948.47	625.55 / -3	431 East Broadway Avenue 431 East Broadway Avenue MI 49444	BEA
BEA No:	200702079GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	
Township:	Muskegon Heights				Longitude:	
Facility Name:	431 East Broadway Avenue					
<hr/>						
75	2 of 2	ENE	0.75 / 3,948.47	625.55 / -3	431 East Broadway Avenue 431 East Broadway Avenue MI 49444	BEA
BEA No:	200702080GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	
Township:	Muskegon Heights				Longitude:	
Facility Name:	431 East Broadway Avenue					
<hr/>						
76	1 of 2	NW	0.80 / 4,234.12	623.59 / -5	580 WEST SHERMAN BOULEVARD 580 WEST SHERMAN BOULEVARD MI 49444	BEA
BEA No:	200501723GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	
Township:	MUSKEGON				Longitude:	
Facility Name:	580 WEST SHERMAN BOULEVARD					
<hr/>						
76	2 of 2	NW	0.80 / 4,234.12	623.59 / -5	580 WEST SHERMAN BOULEVARD 580 WEST SHERMAN BOULEVARD MI 49444	BEA
BEA No:	200501724GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	
Township:	MUSKEGON				Longitude:	
Facility Name:	580 WEST SHERMAN BOULEVARD					
<hr/>						
77	1 of 2	W	0.81 / 4,267.45	624.55 / -4	2984 Henry Street 2984 Henry Street MI	BEA
BEA No:	200201004GR				County: Muskegon	
Facility ID:					District: Grand Rapids	
Data Source:	BEA				Latitude:	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Township: Norton Shores Facility Name: 2984 Henry Street		Longitude:				
77	2 of 2	W	0.81 / 4,267.45	624.55 / -4	2984 Henry Street 2984 Henry Street MI	BEA
BEA No: 200201005GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: 2984 Henry Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
78	1 of 1	W	0.81 / 4,276.03	624.55 / -4	3007/3009 Henry Street 3007/3009 Henry Street MI 49441	BEA
BEA No: 200601858GR Facility ID: Data Source: BEA Township: Roosevelt Park Facility Name: 3007/3009 Henry Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
79	1 of 1	W	0.82 / 4,303.68	624.77 / -4	2906 Henry Street 2906 Henry Street MI 49441	BEA
BEA No: 201103033GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 2906 Henry Street		County: Muskegon District: Grand Rapids Latitude: Longitude:				
80	1 of 1	W	0.82 / 4,319.17	624.77 / -4	Former Clark Retail #1193 2906 South Henry Street MI	BEA
BEA No: 200301274GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: Former Clark Retail #1193		County: Muskegon District: Grand Rapids Latitude: Longitude:				
81	1 of 1	WSW	0.83 / 4,381.79	627.45 / -1	700 West Norton Avenue 700 West Norton Avenue MI 49441	BEA
BEA No: 201203123GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: 700 West Norton Avenue		County: Muskegon District: Grand Rapids Latitude: Longitude:				
82	1 of 3	ENE	0.83 / 4,401.53	624.81 / -4	2701 McIlwraith 2701 McIlwraith MI 49444	BEA
BEA No: 200401405GR		County: Muskegon				

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Facility ID: 61000418 District: Grand Rapids Data Source: BEA Latitude: 43.20248 Township: Muskegon Heights Longitude: -86.23195 Facility Name: 2701 McIlwraith						
82	2 of 3	ENE	0.83 / 4,401.53	624.81 / -4	2701 McIlwraith 2701 McIlwraith MI 49444	BEA
BEA No: 200401406GR County: Muskegon Facility ID: 61000418 District: Grand Rapids Data Source: BEA Latitude: 43.20248 Township: Muskegon Heights Longitude: -86.23195 Facility Name: 2701 McIlwraith						
82	3 of 3	ENE	0.83 / 4,401.53	624.81 / -4	2701 McIlwraith 2701 McIlwraith Muskegon Heights MI 49444	SHWS
Facility ID: 61000418 County: Muskegon Data Source: Part 201 Township: Muskegon Heights Latitude: 43.20248 District: Grand Rapids Longitude: -86.23195 Baseline Assess No: Facility Name: 2701 McIlwraith						
83	1 of 1	WSW	0.84 / 4,436.70	624.85 / -4	3194 Henry Street 3194 Henry Street MI 49441	BEA
BEA No: 201303412GR County: Muskegon Facility ID: District: Grand Rapids Data Source: BEA Latitude: Township: Muskegon Longitude: Facility Name: 3194 Henry Street						
84	1 of 1	WSW	0.85 / 4,487.39	627.24 / -2	715 West Norton Avenue 715 West Norton Avenue MI 49441	BEA
BEA No: 201303371GR County: Muskegon Facility ID: District: Grand Rapids Data Source: BEA Latitude: Township: Norton Shores Longitude: Facility Name: 715 West Norton Avenue						
85	1 of 1	WSW	0.87 / 4,567.30	625.49 / -3	3285 Henry Street 3285 Henry Street MI	BEA
BEA No: 200501700GR County: Muskegon Facility ID: District: Grand Rapids Data Source: BEA Latitude: Township: Roosevelt Park Longitude: Facility Name: 3285 Henry Street						
86	1 of 2	NW	0.87 / 4,582.65	621.12 / -8	540, 546 & 550 West Hume Avenue 540, 546 & 550 West Hume Avenue MI	BEA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
BEA No: 201504099GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 540, 546 & 550 West Hume Avenue County: Muskegon District: Grand Rapids Latitude: Longitude:						
86	2 of 2	NW	0.87 / 4,582.65	621.12 / -8	540, 546 & 550 West Hume Avenue 540, 546 & 550 West Hume Avenue MI	BEA
BEA No: 201504098GR Facility ID: Data Source: BEA Township: Muskegon Heights Facility Name: 540, 546 & 550 West Hume Avenue County: Muskegon District: Grand Rapids Latitude: Longitude:						
87	1 of 1	WSW	0.87 / 4,584.92	627.05 / -2	3275 Henry Street 3275 Henry Street MI 49441	BEA
BEA No: 201503962GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 3275 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
88	1 of 2	WSW	0.88 / 4,636.40	626.76 / -2	3295 Henry Street, Outlot B 3295 Henry Street, Outlot B MI 49441	BEA
BEA No: 200702193GR Facility ID: Data Source: BEA Township: Roosevelt Park Facility Name: 3295 Henry Street, Outlot B County: Muskegon District: Grand Rapids Latitude: Longitude:						
88	2 of 2	WSW	0.88 / 4,636.40	626.76 / -2	3295 Henry Street 3295 Henry Street MI 49441	BEA
BEA No: 201503943GR Facility ID: Data Source: BEA Township: Roosevelt Park Facility Name: 3295 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
89	1 of 1	WNW	0.88 / 4,637.48	623.80 / -5	2637 Emerson Blvd. 2637 Emerson Blvd. MI	BEA
BEA No: 200000710GR Facility ID: Data Source: BEA Township: Norton Shores Facility Name: 2637 Emerson Blvd. County: Muskegon District: Grand Rapids Latitude: Longitude:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
90	1 of 1	ENE	0.89 / 4,675.94	612.66 / -16	560 East Broadway Avenue 560 East Broadway Avenue MI 49444	BEA
BEA No: 201002667GR		County: Muskegon		District: Grand Rapids		
Facility ID:		Data Source: BEA		Latitude:		
Township: Muskegon Heights		Longitude:		Baseline Assess No:		
Facility Name: 560 East Broadway Avenue						
91	1 of 1	ENE	0.89 / 4,677.76	624.16 / -5	Webb Chemical 2708 Jarman Street Muskegon Heights MI 49444	SHWS
Facility ID: 61000068		County: Muskegon		District: Muskegon Hts		
Data Source: Part 201		Township: Muskegon Hts		Latitude: Grand Rapids		
Latitude: 43.20202		District:		Baseline Assess No:		
Longitude: -86.22941						
Facility Name: Webb Chemical						
92	1 of 1	NNW	0.90 / 4,761.16	620.23 / -9	West Heights Development Hovey/Hume Avenue Muskegon Heights MI	SHWS
Facility ID: 61000311		County: Muskegon		District: Muskegon Hts		
Data Source: Part 201		Township: Muskegon Hts		Latitude: Grand Rapids		
Latitude: 43.20837		District:		Baseline Assess No:		
Longitude: -86.25674						
Facility Name: West Heights Development						
93	1 of 6	WNW	0.90 / 4,766.43	626.94 / -2	CWC Textron #3 2672 Henry Street MI 49441	BEA
BEA No: 199700253GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000102		Data Source: BEA		Latitude: 43.20339		
Township: Roosevelt Park		Longitude: -86.26554				
Facility Name: CWC Textron #3						
93	2 of 6	WNW	0.90 / 4,766.43	626.94 / -2	Rite Aid Store #21320-01 (Proposed) 2672 Henry Street MI 49441	BEA
BEA No: 199700273GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000102		Data Source: BEA		Latitude: 43.20339		
Township: Roosevelt Park		Longitude: -86.26554				
Facility Name: Rite Aid Store #21320-01 (Proposed)						
93	3 of 6	WNW	0.90 / 4,766.43	626.94 / -2	Rite Aid Store #4977 2672 Henry Street MI 49441	BEA
BEA No: 199900489GR		County: Muskegon		District: Grand Rapids		
Facility ID: 61000102		Data Source: BEA		Latitude: 43.20339		
Township: Roosevelt Park		Longitude: -86.26554				
Facility Name: Rite Aid Store #4977						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
93	4 of 6	WNW	0.90 / 4,766.43	626.94 / -2	2672 HENRY STREET 2672 HENRY STREET MI 49441	BEA
BEA No:		199900503GR	County:		Muskegon	
Facility ID:		61000102	District:		Grand Rapids	
Data Source:		BEA	Latitude:		43.20339	
Township:		MUSKEGON	Longitude:		-86.26554	
Facility Name:		2672 HENRY STREET				
93	5 of 6	WNW	0.90 / 4,766.43	626.94 / -2	2672 Henry Street 2672 Henry Street MI 49441	BEA
BEA No:		199900629GR	County:		Muskegon	
Facility ID:		61000102	District:		Grand Rapids	
Data Source:		BEA	Latitude:		43.20339	
Township:		Roosevelt Park	Longitude:		-86.26554	
Facility Name:		2672 Henry Street				
93	6 of 6	WNW	0.90 / 4,766.43	626.94 / -2	CWC Textron Plant No. 3 2672 Henry Street Muskegon MI 49441	SHWS
Facility ID:		61000102	County:		Muskegon	
Data Source:		Part 201	Township:		Muskegon	
Latitude:		43.20339	District:		Grand Rapids	
Longitude:		-86.26554	Baseline Assess No:			
Facility Name:		CWC Textron Plant No. 3				
94	1 of 2	WNW	0.91 / 4,781.42	626.94 / -2	2675 and 2695 Henry Street 2675 and 2695 Henry Street MI 49441	BEA
BEA No:		201804825GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	
Data Source:		BEA	Latitude:			
Township:		Roosevelt Park	Longitude:			
Facility Name:		2675 and 2695 Henry Street				
94	2 of 2	WNW	0.91 / 4,781.42	626.94 / -2	2675 & 2695 Henry Street 2675 & 2695 Henry Street (formerly 875 West Sherman Blvd) MI 49441	BEA
BEA No:		200301234GR	County:		Muskegon	
Facility ID:		61000102	District:		Grand Rapids	
Data Source:		BEA	Latitude:		43.20339	
Township:		Roosevelt Park	Longitude:		-86.26554	
Facility Name:		2675 & 2695 Henry Street				
95	1 of 1	WNW	0.91 / 4,813.96	626.23 / -3	2685 Henry Street 2685 Henry Street MI 49441	BEA
BEA No:		200802212GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
Data Source:	BEA			Latitude:		
Township:	Roosevelt Park			Longitude:		
Facility Name:	2685 Henry Street					
96	1 of 3	WSW	0.91 / 4,814.75	625.61 / -3	Amoco Gas & Go 782 W Norton Avenue MI	BEA
BEA No:	199800441GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	Amoco Gas & Go					
96	2 of 3	WSW	0.91 / 4,814.75	625.61 / -3	Amoco Gas N Go 782 W Norton Avenue MI	BEA
BEA No:	199800442GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	Amoco Gas N Go					
96	3 of 3	WSW	0.91 / 4,814.75	625.61 / -3	Amoco Gas N Go 782 W Norton Avenue MI	BEA
BEA No:	199800440GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Norton Shores			Longitude:		
Facility Name:	Amoco Gas N Go					
97	1 of 1	WNW	0.91 / 4,819.85	625.82 / -3	2685 Henry Street 2685 Henry Street MI 49441	BEA
BEA No:	201604329GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Muskegon			Longitude:		
Facility Name:	2685 Henry Street					
98	1 of 1	WSW	0.92 / 4,868.82	625.19 / -4	3385 S. Henry Street 3385 S. Henry Street MI	BEA
BEA No:	200000703GR			County:	Muskegon	
Facility ID:				District:	Grand Rapids	
Data Source:	BEA			Latitude:		
Township:	Roosevelt Park			Longitude:		
Facility Name:	3385 S. Henry Street					
99	1 of 2	WSW	0.93 / 4,894.52	624.80 / -4	3385 Henry Street 3385 Henry Street MI 49441	BEA

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
BEA No: 200401518GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 3385 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
99	2 of 2	WSW	0.93 / 4,894.52	624.80 / -4	3385 Henry Street 3385 Henry Street MI 49441	BEA
BEA No: 200401519GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 3385 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
100	1 of 2	WNW	0.93 / 4,909.42	626.40 / -2	2703 Henry Street 2703 Henry Street (Advance Auto Parts) MI	BEA
BEA No: 200702101GR Facility ID: Data Source: BEA Township: Roosevelt Park Facility Name: 2703 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
100	2 of 2	WNW	0.93 / 4,909.42	626.40 / -2	2703 Henry Street 2703 Henry Street MI	BEA
BEA No: 200100899GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 2703 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
101	1 of 2	WNW	0.95 / 5,029.62	624.54 / -4	2628 Henry Street 2628 Henry Street MI 49441	BEA
BEA No: 201704594GR Facility ID: Data Source: BEA Township: MUSKEGON Facility Name: 2628 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						
101	2 of 2	WNW	0.95 / 5,029.62	624.54 / -4	2628 Henry Street 2628 Henry Street MI 49441	BEA
BEA No: 201704593GR Facility ID: Data Source: BEA Township: Muskegon Facility Name: 2628 Henry Street County: Muskegon District: Grand Rapids Latitude: Longitude:						

Map Key	Number of Records	Direction	Distance (mi/ft)	Elev/Diff (ft)	Site	DB
102	1 of 1	ENE	0.95 / 5,036.87	625.17 / -4	2623 Jarman Street 2623 Jarman Street MI 49444	BEA
BEA No:		201002824GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	
Data Source:		BEA	Latitude:			
Township:		Muskegon Heights	Longitude:			
Facility Name:		2623 Jarman Street				
103	1 of 1	NW	0.97 / 5,135.46	624.24 / -5	Outlot G, Former CWC/Textron Plant #3 Muskegon Crossings Development Henry Street & Sherman Blvd. MI	BEA
BEA No:		199600124GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	
Data Source:		BEA	Latitude:			
Township:		Muskegon	Longitude:			
Facility Name:		Outlot G, Former CWC/Textron Plant #3				
104	1 of 2	WNW	0.98 / 5,187.76	625.62 / -3	936 Oak Ridge Road 936 Oak Ridge Road MI 49441	BEA
BEA No:		201504192GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	
Data Source:		BEA	Latitude:			
Township:		Roosevelt Park	Longitude:			
Facility Name:		936 Oak Ridge Road				
104	2 of 2	WNW	0.98 / 5,187.76	625.62 / -3	936 Oak Ridge Road 936 Oak Ridge Road Roosevelt Park MI 49441	SHWS
Facility ID:		61000516	County:		Muskegon	
Data Source:		Part 201	Township:		Roosevelt Park	
Latitude:		43.20062	District:		Grand Rapids	
Longitude:		-86.26608	Baseline Assess No:			
Facility Name:		936 Oak Ridge Road				
105	1 of 1	NNW	0.98 / 5,200.56	624.55 / -4	2300/2320 Park Street 2300/2320 Park Street MI 49444	BEA
BEA No:		200201007GR	County:		Muskegon	
Facility ID:			District:		Grand Rapids	
Data Source:		BEA	Latitude:			
Township:		Muskegon Hts	Longitude:			
Facility Name:		2300/2320 Park Street				

Unplottable Summary

Total: 16 Unplottable sites

DB	Company Name/Site Name	Address	City	Zip	ERIS ID
BEA	West Sherman Blvd. (Former Railroad Corr	West Sherman Blvd.	MI		818704720
BEA	Muskegon Crossings Shopping Ctr/Unit 12	West Sherman Boulevard	MI		818703906
BEA	Muskegon Crossings Shopping Ctr/Unit 12	West Sherman Boulevard	MI		818703905
BEA	Muskegon Crossings Shopping Ctr/Unit 13	West Sherman Boulevard	MI		818703907
BEA	Unit 12 Musk Crossing Condo W Sherman	Unit 12 Musk Crossing Condo W Sherman	MI		866243281
BEA	Muskegon Crossings Shopping Ctr/Unit 13	West Sherman Boulevard	MI		818703908
BEA	Henry St. (Proposed Advance Auto Parts)	Muskegon Crossing Henry Street	MI		818693802
BROWNFIELDS	Eastowne	Seminole	Northon Shores MI		848582569
BROWNFIELDS	Eastowne	Seminole	Norton Shores MI		858615513
BROWNFIELDS	Eastowne	Seminole	Northon Shores MI	49444	848582333
BROWNFIELDS	Eastowne	Seminole	Norton Shores MI		865747686
CERCLIS NFRAP	RESIDENTIAL WELLS LINCOLN ST	LINCOLN ST	MUSKEGON MI	49441	805488043

CERCLIS NFRAP	THOMPSON LANDFILL	SEMINOLE ROAD	NORTON SHORES MI	49441	805487523
SEMS ARCHIVE	RESIDENTIAL WELLS LINCOLN ST	LINCOLN ST	MUSKEGON MI	49441	828852128
SEMS ARCHIVE	THOMPSON LANDFILL	SEMINOLE ROAD	NORTON SHORES MI	49441	828874226
WASTE	AMOCO OIL CO 782	W NORTON	MUSKEGON MI	49441	858739612

Unplottable Report

Site: *West Sherman Blvd. (Former Railroad Corr
West Sherman Blvd. MI*

BEA

BEA No: 200000666GR
Facility ID:
Data Source: BEA
Township: Muskegon
Facility Name: West Sherman Blvd. (Former Railroad Corr

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: *Muskegon Crossings Shopping Ctr/Unit 12
West Sherman Boulevard MI*

BEA

BEA No: 200902483GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park
Facility Name: Muskegon Crossings Shopping Ctr/Unit 12

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: *Muskegon Crossings Shopping Ctr/Unit 12
West Sherman Boulevard MI*

BEA

BEA No: 200902482GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park
Facility Name: Muskegon Crossings Shopping Ctr/Unit 12

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: *Muskegon Crossings Shopping Ctr/Unit 13
West Sherman Boulevard MI*

BEA

BEA No: 200902484GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park
Facility Name: Muskegon Crossings Shopping Ctr/Unit 13

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: *Unit 12 Musk Crossing Condo W Sherman
Unit 12 Musk Crossing Condo W Sherman MI*

BEA

BEA No: 201804747GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park
Facility Name: Unit 12 Musk Crossing Condo W Sherman

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: *Muskegon Crossings Shopping Ctr/Unit 13
West Sherman Boulevard MI*

BEA

BEA No: 200902485GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park

County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Facility Name: Muskegon Crossings Shopping Ctr/Unit 13

Site: Henry St. (Proposed Advance Auto Parts)
Muskegon Crossing Henry Street MI

BEA

BEA No: 199900536GR
Facility ID:
Data Source: BEA
Township: Roosevelt Park
Facility Name: Henry St. (Proposed Advance Auto Parts)
County: Muskegon
District: Grand Rapids
Latitude:
Longitude:

Site: Eastowne
Seminole Northon Shores MI

BROWNFIELDS

Brownfield Plan Name: Eastowne
Proposed Development:
Date Received:
Date Brownfield Plan Apprv:
Site Reporting Year:
Plan Submitted by: City of Norton Shores BRA
County: Muskegon
Current Ownership:
Prop Future Ownership:
Historical Use of Property:
Current Use of Property:
Use Prior to Development:
Media Contaminated:
Contaminants:
Compliant: Yes
Existing Zoning:
Proposed Future Zoning:
Local Only Plan:
Rehabilitated Residential: 0
Desc of Eligible Activities:
New Jobs Created: 0
New Residential Square Ft: 0
Rehab Residential Sq Ft: 0
Retail Square Ft: 0
Commercial Square Ft: 0
Industrial Square Ft: 0
Public Infrastructure Sq Ft: 0
Public Infrastr Linear Ft: 0
Approved Activity Cost:
Reported Tax Year: 2013
Ended: No
Beginning Date Tax Capture: 7/1/2006
Intial Taxable Value: \$3,445,844
Cap Taxable Value on Elig: \$3,205,831
Tax Capture Status:
Delinq Taxes, Interest & Penalties:
State School Taxes Capt:
Local School Taxes Capt:
Total Amount TIR Collected: \$1,068,106
County TIR Received: \$29,728
Local TIR Received: \$31,898
Local ISD TIR Received: \$12,048
State TIR Expenditure: \$16,156
Local TIR Expenditure: \$109,966
Local Only TIR Expenditure: \$0
Environmental TIR Expend: \$0
Non Envi TIR Expend: \$0
Amount School Operating TIR: \$54,112
No TIR Cap Reimbursement R:
Amount of State Education Tir:
Principal Interest & Ind: \$5,614
Actual Capital Investment: \$0

Estimated Private Invest:

Site: Eastowne
Seminole Norton Shores MI

BROWNFIELDS

Brownfield Plan Name: Eastowne
Proposed Development:
Date Received:
Date Brownfield Plan Apprv: 7/1/2006
Site Reporting Year:
Plan Submitted by: City of Norton Shores BRA
County: Muskegon
Current Ownership:
Prop Future Ownership:
Historical Use of Property:
Current Use of Property:
Use Prior to Development:
Media Contaminated:
Contaminants:
Compliant:
Existing Zoning:
Proposed Future Zoning:
Local Only Plan: No
Rehabilitated Residential: 0
Desc of Eligible Activities:
New Jobs Created: 0
New Residential Square Ft: 0
Rehab Residential Sq Ft: 0
Retail Square Ft: 0
Commercial Square Ft: 0
Industrial Square Ft: 0
Public Infrastructure Sq Ft: 0
Public Infrastr Linear Ft: 0
Approved Activity Cost:
Reported Tax Year:
Ended: No
Beginning Date Tax Capture: 7/1/2006
Intial Taxable Value: 3445844
Cap Taxable Value on Elig: 80500
Tax Capture Status:
Delinq Taxes, Interest & Penalties:
State School Taxes Capt:
Local School Taxes Capt:
Total Amount TIR Collected: 1068106
County TIR Received: 25150
Local TIR Received: 27600
Local ISD TIR Received: 12447
State TIR Expenditure: 14127
Local TIR Expenditure: 96107
Local Only TIR Expenditure: 0
Environmental TIR Expend: 0
Non Envi TIR Expend: 110234
Amount School Operating TIR: 41589
No TIR Cap Reimbursement R:
Amount of State Education Tir:
Principal Interest & Ind: 0
Actual Capital Investment: 0
Estimated Private Invest:

Site: Eastowne
Seminole Northon Shores MI 49444

BROWNFIELDS

Brownfield Plan Name: Eastowne
Proposed Development:
Date Received:
Date Brownfield Plan Apprv:

Site Reporting Year:
Plan Submitted by: City of Norton Shores BRA
County: Muskegon
Current Ownership:
Prop Future Ownership:
Historical Use of Property:
Current Use of Property:
Use Prior to Development:
Media Contaminated:
Contaminants:
Compliant: Yes
Existing Zoning:
Proposed Future Zoning:
Local Only Plan:
Rehabilitated Residential: 0
Desc of Eligible Activities:
New Jobs Created: 0
New Residential Square Ft: 0
Rehab Residential Sq Ft: 0
Retail Square Ft: 0
Commercial Square Ft: 0
Industrial Square Ft: 0
Public Infrastructure Sq Ft: 0
Public Infrastr Linear Ft: 0
Approved Activity Cost:
Reported Tax Year: 2014
Ended: No
Beginning Date Tax Capture: 7/1/2006
Intial Taxable Value: \$3,445,844
Cap Taxable Value on Elig: \$2,616,122
Tax Capture Status:
Delinq Taxes, Interest & Penalties:
State School Taxes Capt:
Local School Taxes Capt:
Total Amount TIR Collected: \$1,068,106
County TIR Received: \$25,149
Local TIR Received: \$27,600
Local ISD TIR Received: \$12,447
State TIR Expenditure: \$16,868
Local TIR Expenditure: \$97,388
Local Only TIR Expenditure: \$0
Environmental TIR Expend: \$0
Non Envi TIR Expend: \$114,256
Amount School Operating TIR: \$41,588
No TIR Cap Reimbursement R:
Amount of State Education Tir:
Principal Interest & Ind: \$0
Actual Capital Investment: \$0
Estimated Private Invest:

Site: Eastowne
 Seminole Norton Shores MI

BROWNFIELDS

Brownfield Plan Name: Eastowne
Proposed Development:
Date Received:
Date Brownfield Plan Apprv: 7/1/2006
Site Reporting Year: 2016
Plan Submitted by: City of Norton Shores BRA
County: Muskegon
Current Ownership:
Prop Future Ownership:
Historical Use of Property:
Current Use of Property:
Use Prior to Development:
Media Contaminated:
Contaminants:
Compliant: Yes

Existing Zoning:
Proposed Future Zoning:
Local Only Plan: No
Rehabilitated Residential: 0
Desc of Eligible Activities:
New Jobs Created: 0
New Residential Square Ft: 0
Rehab Residential Sq Ft: 0
Retail Square Ft: 0
Commercial Square Ft: 0
Industrial Square Ft: 0
Public Infrastructure Sq Ft: 0
Public Infrastr Linear Ft: 0
Approved Activity Cost:
Reported Tax Year:
Ended:
Beginning Date Tax Capture: 7/1/2006
Intial Taxable Value: \$3,445,844
Cap Taxable Value on Elig: \$-116,086
Tax Capture Status: Capture started
Delinq Taxes, Interest & Penalties:
State School Taxes Capt:
Local School Taxes Capt:
Total Amount TIR Collected: \$1,068,106
County TIR Received: \$14,182
Local TIR Received: \$36,408
Local ISD TIR Received: \$11,842
State TIR Expenditure: \$14,933
Local TIR Expenditure: \$104,765
Local Only TIR Expenditure: \$0
Environmental TIR Expend: \$0
Non Envi TIR Expend: \$119,698
Amount School Operating TIR: \$39,193
No TIR Cap Reimbursement R:
Amount of State Education Tir: \$14,933
Principal Interest & Ind: \$0
Actual Capital Investment: \$0
Estimated Private Invest:

Site: RESIDENTIAL WELLS LINCOLN ST
 LINCOLN ST MUSKEGON MI 49441

CERCLIS NFRAP

Site ID:	503153	Site FIPS Code:	26121
Site EPA ID:	MID980992770	Region Code:	5
Site Parent ID:		Site Cong. Dist. Code:	9
Site County Name:	MUSKEGON	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	6/1/1984
RAT Code:	DS	AGT Order No.:	10
RAT Short Name:	DISCVRY	SH OU:	
RAT Name:	DISCOVERY	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	9/26/1985
RAT Code:	SI	AGT Order No.:	160
RAT Short Name:	SI	SH OU:	
RAT Name:	SITE INSPECTION	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	NFRAP
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	The process of collecting site data and samples to characterize the severity of the hazard for the hazard ranking score and/or enforcement support.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	1/10/1996
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House	RNPL Status Code:	N
RAT Def:	The decision is made that no further activity is planned at the site.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	9/1/1984
RAT Code:	PA	AGT Order No.:	130
RAT Short Name:	PA	SH OU:	
RAT Name:	PRELIMINARY ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Low priority
RALT Short Name:	State (Fund)	RNPL Status Code:	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	3/14/1986
RAT Code:	HR	AGT Order No.:	190
RAT Short Name:	HAZRANK	SH OU:	
RAT Name:	HAZARD RANKING SYSTEM PACKAGE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	NFRAP
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	A numeric estimate of the relative severity of a hazardous substance release or potential release based on: (1) the relative potential of substances to cause hazardous situations; (2) the likelihood and rate at which the substances		

may affect human and environmental receptors; and (3) the severity and magnitude of potential effects. The score is computed using the hazard ranking system (HRS).

RNON NPL Status Desc:

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

Site: THOMPSON LANDFILL
SEMINOLE ROAD NORTON SHORES MI 49441

CERCLIS NFRAP

Site ID:	502852	Site FIPS Code:	26121
Site EPA ID:	MID980608871	Region Code:	5
Site Parent ID:		Site Cong. Dist. Code:	9
Site County Name:	MUSKEGON	Federal Facility:	
Parent Site Name:			

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	2/11/1986
RAT Code:	PA	AGT Order No.:	130
RAT Short Name:	PA	SH OU:	
RAT Name:	PRELIMINARY ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	Low priority
RALT Short Name:	State (Fund)	RNPL Status Code:	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	3/27/1990
RAT Code:	VS	AGT Order No.:	1500
RAT Short Name:	ARCH SITE	SH OU:	
RAT Name:	ARCHIVE SITE	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA In-House	RNPL Status Code:	N
RAT Def:	The decision is made that no further activity is planned at the site.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	2	Act Complete Date:	3/27/1990
RAT Code:	PA	AGT Order No.:	130
RAT Short Name:	PA	SH OU:	
RAT Name:	PRELIMINARY ASSESSMENT	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:	P	SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	NFRAP
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	Collection of diverse existing information about the source and nature of the site hazard. It is EPA policy to complete the preliminary assessment within one year of site discovery.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

CERCLIS-NFRAP Assess History

OU ID:	0	Act Start Date:	
Act Code ID:	1	Act Complete Date:	5/1/1981
RAT Code:	DS	AGT Order No.:	10
RAT Short Name:	DISCVRY	SH OU:	
RAT Name:	DISCOVERY	SH Code:	
RAT Hist. Only Flag:		SH Seq:	
RAT NSI Indicator:	B	SH Start Date:	
RAT Level:	1	SH Complete Date:	
RAT DEF OU:	00	SH Lead:	
RFBS Code:		SH Qual:	
SPA Code:	13	RAQ Act. Qual Short:	
RALT Short Name:	EPA Fund	RNPL Status Code:	N
RAT Def:	The process by which a potential hazardous waste site is brought to the attention of the EPA. The process can occur through the use of several mechanisms such as a phone call or referral by another government agency.		
RNON NPL Status Desc:	NFRAP-Site does not qualify for the NPL based on existing information		

Site: RESIDENTIAL WELLS LINCOLN ST
LINCOLN ST MUSKEGON MI 49441

[SEMS ARCHIVE](#)

Site ID:	0503153	FIPS Code:	26121
EPA ID:	MID980992770	Cong District:	09
NPL:	Not on the NPL	County:	MUSKEGON
Federal Facility:	No	Region:	05
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information		

Action Information

Operable Units:	00	Start Actual:	06/01/1984
Action Code:	DS	Finish Actual:	06/01/1984
Action Name:	DISCVRY	Qual:	
SEQ:	1	Curr Action Lead:	EPA Perf
Operable Units:	00	Start Actual:	
Action Code:	VS	Finish Actual:	01/10/1996
Action Name:	ARCH SITE	Qual:	
SEQ:	1	Curr Action Lead:	EPA Perf In-Hse
Operable Units:	00	Start Actual:	
Action Code:	HR	Finish Actual:	03/14/1986
Action Name:	HAZRANK	Qual:	N
SEQ:	1	Curr Action Lead:	EPA Perf
Operable Units:	00	Start Actual:	
Action Code:	SI	Finish Actual:	09/26/1985
Action Name:	SI	Qual:	N
SEQ:	1	Curr Action Lead:	EPA Perf
Operable Units:	00	Start Actual:	
Action Code:	PA	Finish Actual:	09/01/1984
Action Name:	PA	Qual:	L
SEQ:	1	Curr Action Lead:	St Perf

Site: THOMPSON LANDFILL
SEMINOLE ROAD NORTON SHORES MI 49441

[SEMS ARCHIVE](#)

Site ID:	0502852	FIPS Code:	26121
EPA ID:	MID980608871	Cong District:	09
NPL:	Not on the NPL	County:	MUSKEGON
Federal Facility:	No	Region:	05
Non NPL Status:	NFRAP-Site does not qualify for the NPL based on existing information		

Action Information

Operable Units:	00	Start Actual:	
Action Code:	PA	Finish Actual:	03/27/1990
Action Name:	PA	Qual:	N
SEQ:	2	Curr Action Lead:	EPA Perf

Operable Units: 00
Action Code: DS
Action Name: DISCVRY
SEQ: 1

Start Actual: 05/01/1981
Finish Actual: 05/01/1981
Qual:
Curr Action Lead: EPA Perf

Operable Units: 00
Action Code: PA
Action Name: PA
SEQ: 1

Start Actual:
Finish Actual: 02/11/1986
Qual: L
Curr Action Lead: St Perf

Operable Units: 00
Action Code: VS
Action Name: ARCH SITE
SEQ: 1

Start Actual:
Finish Actual: 03/27/1990
Qual:
Curr Action Lead: EPA Perf In-Hse

Site: AMOCO OIL CO 782
W NORTON MUSKEGON MI 49441

WASTE

Site ID: MID985620426
WDS ID: 405895

Legal Name: AMOCO OIL CO
County: MUSKEGON

Appendix: Database Descriptions

Environmental Risk Information Services (ERIS) can search the following databases. The extent of historical information varies with each database and current information is determined by what is publicly available to ERIS at the time of update. ERIS updates databases as set out in ASTM Standard E1527-13, Section 8.1.8 Sources of Standard Source Information:

"Government information from nongovernmental sources may be considered current if the source updates the information at least every 90 days, or, for information that is updated less frequently than quarterly by the government agency, within 90 days of the date the government agency makes the information available to the public."

Standard Environmental Record Sources

Federal

National Priority List:

NPL

National Priorities List (Superfund)-NPL: EPA's (United States Environmental Protection Agency) list of the most serious uncontrolled or abandoned hazardous waste sites identified for possible long-term remedial action under the Superfund program. The NPL, which EPA is required to update at least once a year, is based primarily on the score a site receives from EPA's Hazard Ranking System. A site must be on the NPL to receive money from the Superfund Trust Fund for remedial action.

Government Publication Date: Jul 3, 2018

National Priority List - Proposed:

PROPOSED NPL

Includes sites proposed (by the EPA, the state, or concerned citizens) for addition to the NPL due to contamination by hazardous waste and identified by the Environmental Protection Agency (EPA) as a candidate for cleanup because it poses a risk to human health and/or the environment.

Government Publication Date: Jul 3, 2018

Deleted NPL:

DELETED NPL

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.

Government Publication Date: Jul 3, 2018

SEMS List 8R Active Site Inventory:

SEMS

The Superfund Program has deployed the Superfund Enterprise Management System (SEMS), which integrates multiple legacy systems into a comprehensive tracking and reporting tool. This inventory contains active sites evaluated by the Superfund program that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The Active Site Inventory Report displays site and location information at active SEMS sites. An active site is one at which site assessment, removal, remedial, enforcement, cost recovery, or oversight activities are being planned or conducted.

Government Publication Date: Aug 13, 2018

Inventory of Open Dumps, June 1985:

ODI

The Resource Conservation and Recovery Act (RCRA) provides for publication of an inventory of open dumps. The Act defines "open dumps" as facilities which do not comply with EPA's "Criteria for Classification of Solid Waste Disposal Facilities and Practices" (40 CFR 257).

Government Publication Date: Jun 1985

SEMS List 8R Archive Sites:

SEMS ARCHIVE

The Superfund Enterprise Management System (SEMS) Archived Site Inventory displays site and location information at sites archived from SEMS. An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time.

Government Publication Date: Aug 13, 2018

CERCLIS:

Superfund is a program administered by the United States Environmental Protection Agency (EPA) to locate, investigate, and clean up the worst hazardous waste sites throughout the United States. CERCLIS is a database of potential and confirmed hazardous waste sites at which the EPA Superfund program has some involvement. It contains sites that are either proposed to be or are on the National Priorities List (NPL) as well as sites that are in the screening and assessment phase for possible inclusion on the NPL. The EPA administers the Superfund program in cooperation with individual states and tribal governments; this database is made available by the EPA.

Government Publication Date: Oct 25, 2013

EPA Report on the Status of Open Dumps on Indian Lands:**IODI**

Public Law 103-399, The Indian Lands Open Dump Cleanup Act of 1994, enacted October 22, 1994, identified congressional concerns that solid waste open dump sites located on American Indian or Alaska Native (AI/AN) lands threaten the health and safety of residents of those lands and contiguous areas. The purpose of the Act is to identify the location of open dumps on Indian lands, assess the relative health and environment hazards posed by those sites, and provide financial and technical assistance to Indian tribal governments to close such dumps in compliance with Federal standards and regulations or standards promulgated by Indian Tribal governments or Alaska Native entities.

Government Publication Date: Dec 31, 1998

CERCLIS - No Further Remedial Action Planned:**CERCLIS NFRAP**

An archived site is one at which EPA has determined that assessment has been completed and no further remedial action is planned under the Superfund program at this time. The Archive designation means that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL). This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Government Publication Date: Oct 25, 2013

CERCLIS Liens:**CERCLIS LIENS**

A Federal Superfund lien exists at any property where EPA has incurred Superfund costs to address contamination ("Superfund site") and has provided notice of liability to the property owner. A Federal CERCLA ("Superfund") lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 30, 2014

RCRA CORRACTS-Corrective Action:**RCRA CORRACTS**

RCRA Info 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. At these sites, the Corrective Action Program ensures that cleanups occur. EPA and state regulators work with facilities and communities to design remedies based on the contamination, geology, and anticipated use unique to each site.

Government Publication Date: Aug 2, 2018

RCRA non-CORRACTS TSD Facilities:**RCRA TSD**

RCRA Info 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. This database includes Non-Corrective Action sites listed as treatment, storage and/or disposal facilities of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA).

Government Publication Date: Aug 2, 2018

RCRA Generator List:**RCRA LQG**

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Large Quantity Generators (LQGs) generate 1,000 kilograms per month or more of hazardous waste or more than one kilogram per month of acutely hazardous waste.

Government Publication Date: Aug 2, 2018

RCRA Small Quantity Generators List:**RCRA SQG**

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Small Quantity Generators (SQGs) generate more than 100 kilograms, but less than 1,000 kilograms, of hazardous waste per month.

Government Publication Date: Aug 2, 2018

RCRA Conditionally Exempt Small Quantity Generators List:[RCRA CESQG](#)

RCRA Info is the 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Conditionally Exempt Small Quantity Generators (CESQG) generate 100 kilograms or less per month of hazardous waste or one kilogram or less per month of acutely hazardous waste.

Government Publication Date: Aug 2, 2018

RCRA Non-Generators:[RCRA NON GEN](#)

RCRA Info 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. RCRA Info replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS) and the Biennial Reporting System (BRS). A hazardous waste generator is any person or site whose processes and actions create hazardous waste (see 40 CFR 260.10). Non-Generators do not presently generate hazardous waste.

Government Publication Date: Aug 2, 2018

Federal Engineering Controls-ECs:[FED ENG](#)

Engineering controls (ECs) encompass a variety of engineered and constructed physical barriers (e.g., soil capping, sub-surface venting systems, mitigation barriers, fences) to contain and/or prevent exposure to contamination on a property. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Jan 20, 2016

Federal Institutional Controls- ICs:[FED INST](#)

Institutional controls are non-engineered instruments, such as administrative and legal controls, that help minimize the potential for human exposure to contamination and/or protect the integrity of the remedy. Although it is EPA's (United States Environmental Protection Agency) expectation that treatment or engineering controls will be used to address principal threat wastes and that groundwater will be returned to its beneficial use whenever practicable, ICs play an important role in site remedies because they reduce exposure to contamination by limiting land or resource use and guide human behavior at a site.

Government Publication Date: Jan 20, 2016

Emergency Response Notification System:[ERNS 1982 TO 1986](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1982-1986

Emergency Response Notification System:[ERNS 1987 TO 1989](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

Government Publication Date: 1987-1989

Emergency Response Notification System:[ERNS](#)

Database of oil and hazardous substances spill reports controlled by the National Response Center. The primary function of the National Response Center is to serve as the sole national point of contact for reporting oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Feb 12, 2018

The Assessment, Cleanup and Redevelopment Exchange System (ACRES) Brownfield Database:[FED BROWNFIELDS](#)

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 protects the environment, reduces blight, and takes development pressures off greenspaces and working lands. This database is made available by the United States Environmental Protection Agency (EPA).

Government Publication Date: Feb 20, 2018

FEMA Underground Storage Tank Listing:[FEMA UST](#)

The Federal Emergency Management Agency (FEMA) of the Department of Homeland Security maintains a list of FEMA owned underground storage tanks.

Government Publication Date: Dec 31, 2017

LIEN on Property:

SEMS LIEN

The EPA Superfund Enterprise Management System (SEMS) provides LIEN information on properties under the EPA Superfund Program.

Government Publication Date: Aug 13, 2018

Superfund Decision Documents:

SUPERFUND ROD

This database contains a listing of decision documents for Superfund sites. Decision documents serve to provide the reasoning for the choice of (or) changes to a Superfund Site cleanup plan. The decision documents include Records of Decision (ROD), ROD Amendments, Explanations of Significant Differences (ESD), along with other associated memos and files. This information is maintained and made available by the US EPA (Environmental Protection Agency).

Government Publication Date: Jun 8, 2018

State**Tank Facilities Not Currently Registered:**

UNREG TANK

A list of tanks known to the Department of Licensing and Regulatory Affairs in Michigan which do not require registration.

Government Publication Date: Dec 12, 2017

Part 201 Site List:

SHWS

A Part 201 Facility is an area, place, or property where a hazardous substance in excess of the concentrations that satisfy the cleanup criteria for unrestricted residential use has been released, deposited, disposed of, or otherwise comes to be located. This list is maintained by the Remediation and Redevelopment Division in Department of Environmental Quality (DEQ). This database is state equivalent CERCLIS.

Government Publication Date: Sep 17, 2018

Delisted Hazardous and BEA Sites:

DELISTED SHWS

This list is comprised of sites that were once included in the inventory of facilities (Part 201, BEA) list but have been removed. After the Department of Environmental Quality (DEQ) has determined that a BEA Part 201 site has been remediated, the site is removed from the inventory of facilities. This database is state equivalent CERCLIS.

Government Publication Date: Sep 17, 2018

State Sites Cleanup List of Sites:

SITE CLEANUP

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

Government Publication Date: Jan 10, 2018

Solid Waste Facilities and Landfills:

SWF/LF

An inventory of solid waste and landfill facilities maintained by the Department of Environmental Quality (DEQ). This list contains all disposal area types and status types.

Government Publication Date: Sep 10, 2018

Waste Data System:

WASTE

The Waste Data System (WDS) tracks activities at sites regulated by the Solid Waste, Scrap Tire, Hazardous Waste, and Liquid Industrial Waste programs. This list of sites is provided by the Michigan Department of Environmental Quality (DEQ).

Government Publication Date: Jul 31, 2018

Leaking Underground Storage Tank:

LUST

At the time of a release, the owner/operator is responsible for the corrective actions mandated by Part 213, Leaking Underground Storage Tanks, of the Natural Resources and Environmental Protection Act, 1994 of PA 451, as amended (NREPA). Owners/operators are required to hire consultants that meet the qualifications in Section 21325 of Part 213 to perform corrective actions, and to submit specific reports required by the statute. The Remediation Division of the Department of Environmental Quality (DEQ) is charged with selectively auditing the final assessment reports and closure reports.

Government Publication Date: Jul 23, 2018

Underground Storage Tank:

UST

The Department of Environmental Quality (DEQ) collects Underground Storage Tank (UST) data. The Active UST facilities are those where there is at least one tank at the facility that is not closed in place or removed and is regulated under Part 211, Underground Storage Tank Regulations, of the Natural Resources and Environment Protection Act, 1994 PA 451, as amended (Act 451). There may be closed tanks and/or active non-regulated tanks (such as heating oil tanks) at the facility. Closed UST facilities are those where all tanks at the facility that are regulated under Part 211 of Act 451 are closed. There may be non-regulated active tanks at the facility, such as heating oil tanks or tanks that are smaller than the regulatory cut-off.

Government Publication Date: Sep 13, 2017

Aboveground Storage Tanks:

AST

The Aboveground Storage Tank (AST) Program in the Department of Licensing and Regulatory Affairs (LARA) regulates the following: storage and handling of flammable and combustible liquids with flash point less than 200 degrees Fahrenheit, storage and handling of liquefied petroleum gases compressed natural gas vehicular systems. The regulatory authority is from the Fire Prevention Code, 1941 PA 207, as amended, and the rules promulgated under the act.

Government Publication Date: Apr 24, 2018

Delisted Leaking Underground Storage Tank:

DELISTED LUST

This list is comprised of sites that were once included in the Leaking Underground Storage Tank list but have been removed. After the Department of Environmental Quality (DEQ) has determined that a Leaking Underground Storage Tank (LUST) site has been excluded from the DEQ STID Database, the site is removed from the inventory of facilities.

Government Publication Date: Jul 23, 2018

Delisted Storage Tank:

DELISTED TANK

This list is comprised of sites that were once included in the Storage Tank list but have been removed. After the Department of Environmental Quality (DEQ) has determined that an Storage Tank site has been excluded from the DEQ STID Database, the site is removed from the inventory of facilities.

Government Publication Date: Apr 24, 2018

Engineering and Institutional Controls:

AUL

A list of Engineering and Institutional Controls. According to U.S. Environmental Protection Agency (EPA), these engineering and institutional controls are usually legal controls intended to influence human activities in such a way as to prevent or reduce exposure to hazardous wastes or hazardous constituents that are left on a site following active cleanup work. Institutional controls, however, are not intended to be used as secured abandonment (i.e., physically securing a site and preventing exposure while making little or no effort to ensure that chemicals of concerns do not migrate to and beyond the property boundary). Institutional controls may not be appropriate as the sole remedy for off-site releases. EPA's expectation is for sites to be remediated to allow for reasonable beneficial reuse. U.S. EPA has developed guidance on the use of institutional controls at Superfund and RCRA corrective action sites, and the guidance should be consulted for additional information concerning their applicability and use.

Government Publication Date: May 16, 2018

Brownfield Redevelopment Financing Act Sites:

BROWNFIELDS

List of sites included in the Michigan Department of Environmental Quality (DEQ)'s reporting on Brownfield Redevelopment Financing Act activities from 2003-2012. In Michigan, the Brownfield Redevelopment Financing Act (Act 381) of 1996 authorizes municipalities to create brownfield redevelopment authorities to facilitate the implementation of brownfield plans and to create brownfield redevelopment zones in order to promote the revitalization, redevelopment, and reuse of certain properties.

Government Publication Date: Dec 31, 2016

Tribal

Leaking Underground Storage Tanks on Indian Lands:

INDIAN LUST

LUSTs on Tribal/Indian Lands in Region 5, which includes Michigan, Minnesota, and Wisconsin.

Government Publication Date: Oct 16, 2017

Underground Storage Tanks (USTs) on Indian Lands:

INDIAN UST

USTs on Tribal/Indian Lands in Region 5, which includes Michigan, Minnesota, and Wisconsin.

Government Publication Date: Oct 16, 2017

Delisted Tribal Leaking Storage Tanks:

DELISTED ILST

Leaking Underground Storage Tank facilities which have been removed from the Regional Tribal LUST lists made available by the EPA.

Government Publication Date: Oct 14, 2017

Delisted Tribal Underground Storage Tanks:

DELISTED IUST

Underground Storage Tank facilities which have been removed from the Regional Tribal UST lists made available by the EPA.

Government Publication Date: Oct 14, 2017

County

No County standard environmental record sources available for this State.

Additional Environmental Record Sources**Federal****Facility Registry Service/Facility Index:**

FINDS/FRS

The US Environmental Protection Agency (EPA)'s Facility Registry System (FRS) is a centrally managed database that identifies facilities, sites or places subject to environmental regulations or of environmental interest. FRS creates high-quality, accurate, and authoritative facility identification records through rigorous verification and management procedures that incorporate information from program national systems, state master facility records, data collected from EPA's Central Data Exchange registrations and data management personnel.

Government Publication Date: Apr 17, 2018

Toxics Release Inventory (TRI) Program:

TRIS

The EPA's Toxics Release Inventory (TRI) is a database containing data on disposal or other releases of over 650 toxic chemicals from thousands of U.S. facilities and information about how facilities manage those chemicals through recycling, energy recovery, and treatment. One of TRI's primary purposes is to inform communities about toxic chemical releases to the environment.

Government Publication Date: Dec 31, 2016

Hazardous Materials Information Reporting System:

HMIRS

US DOT - Department of Transportation Pipeline and Hazardous Materials Safety Administration (PHMSA) Incidents Reports Database taken from Hazmat Intelligence Portal, U.S. Department of Transportation.

Government Publication Date: May 23, 2018

National Clandestine Drug Labs:

NCDL

The U.S. Department of Justice ("the Department") provides this data 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.

Government Publication Date: Jul 18, 2018

Toxic Substances Control Act:

TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The CDR enables EPA to collect and publish information on the manufacturing, processing, and use of commercial chemical substances and mixtures (referred to hereafter as chemical substances) on the TSCA Chemical Substance Inventory (TSCA Inventory). This includes current information on chemical substance production volumes, manufacturing sites, and how the chemical substances are used. This information helps the Agency determine whether people or the environment are potentially exposed to reported chemical substances. EPA publishes submitted CDR data that is not Confidential Business Information (CBI).

Government Publication Date: Jun 30, 2017

Hist TSCA:

HIST TSCA

The Environmental Protection Agency (EPA) is amending the Toxic Substances Control Act (TSCA) section 8(a) Inventory Update Reporting (IUR) rule and changing its name to the Chemical Data Reporting (CDR) rule.

The 2006 IUR data summary report includes information about chemicals manufactured or imported in quantities of 25,000 pounds or more at a single site during calendar year 2005. In addition to the basic manufacturing information collected in previous reporting cycles, the 2006 cycle is the first time EPA collected information to characterize exposure during manufacturing, processing and use of organic chemicals. The 2006 cycle also is the first time manufacturers of inorganic chemicals were required to report basic manufacturing information.

Government Publication Date: Dec 31, 2006

FTTS Administrative Case Listing:

FTTS ADMIN

An administrative case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

FTTS Inspection Case Listing:

FTTS INSP

An inspection case listing from the Federal Insecticide, Fungicide, & Rodenticide Act (FIFRA) and Toxic Substances Control Act (TSCA), together known as FTTS. This database was obtained from the Environmental Protection Agency's (EPA) National Compliance Database (NCDB). The FTTS and NCDB was shut down in 2006.

Government Publication Date: Jan 19, 2007

Potentially Responsible Parties List:

PRP

Early in the cleanup process, the Environmental Protection Agency (EPA) conducts a search to find the potentially responsible parties (PRPs). EPA looks for evidence to determine liability by matching wastes found at the site with parties that may have contributed wastes to the site.

Government Publication Date: Jul 17, 2018

State Coalition for Remediation of Drycleaners Listing:

SCRD DRYCLEANER

The State Coalition for Remediation of Drycleaners (SCRD) was established in 1998, with support from the U.S. Environmental Protection Agency (EPA) Office of Superfund Remediation and Technology Innovation. Coalition members are states with mandated programs and funding for drycleaner site remediation. Current members are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Government Publication Date: Nov 08, 2017

Integrated Compliance Information System (ICIS):

ICIS

The Integrated Compliance Information System (ICIS) is a system that provides information for the Federal Enforcement and Compliance (FE&C) and the National Pollutant Discharge Elimination System (NPDES) programs. The FE&C component supports the Environmental Protection Agency's (EPA) Civil Enforcement and Compliance program activities. These activities include Compliance Assistance, Compliance Monitoring and Enforcement. The NPDES program supports tracking of NPDES permits, limits, discharge monitoring data and other program reports.

Government Publication Date: Nov 18, 2016

Drycleaner Facilities:

FED DRYCLEANERS

A list of drycleaner facilities from the Integrated Compliance Information System (ICIS). The Environmental Protection Agency (EPA) tracks facilities that possess NAIC and SIC codes that classify businesses as drycleaner establishments.

Government Publication Date: May 29, 2018

Delisted Drycleaner Facilities:

DELISTED FED DRY

List of sites removed from the list of Drycleaner Facilities (sites in the EPA's Integrated Compliance Information System (ICIS) with NAIC or SIC codes identifying the business as a drycleaner establishment).

Government Publication Date: May 29, 2018

Formerly Used Defense Sites:

FUDS

Formerly Used Defense Sites (FUDS) are properties that were formerly owned by, leased to, or otherwise possessed by and under the jurisdiction of the Secretary of Defense prior to October 1986, where the Department of Defense (DoD) is responsible for an environmental restoration. This list is published by the U.S. Army Corps of Engineers.

Government Publication Date: Nov 22, 2016

Material Licensing Tracking System (MLTS):

MLTS

A list of sites that store radioactive material subject to the Nuclear Regulatory Commission (NRC) licensing requirements. This list is maintained by the NRC. As of September 2016, the NRC no longer releases location information for sites. Site locations were last received in July 2016.

Government Publication Date: Jun 30, 2017

Historic Material Licensing Tracking System (MLTS) sites:

HIST MLTS

A historic list of sites that have inactive licenses and/or removed from the Material Licensing Tracking System (MLTS). In some cases, a site is removed from the MLTS when the state becomes an "Agreement State". An Agreement State is a State that has signed an agreement with the Nuclear Regulatory Commission (NRC) authorizing the State to regulate certain uses of radioactive materials within the State.

Government Publication Date: Jan 31, 2010

Mines Master Index File:

MINES

The Master Index File (MIF) contains mine identification numbers issued by the Department of Labor Mine Safety and Health Administration (MSHA) for mines active or opened since 1971. Note that addresses may or may not correspond with the physical location of the mine itself.

Government Publication Date: Jan 30, 2018

Alternative Fueling Stations:

ALT FUELS

List of alternative fueling stations made available by the US Department of Energy's Office of Energy Efficiency & Renewable Energy. Includes Biodiesel stations, Ethanol (E85) stations, Liquefied Petroleum Gas (Propane) stations, Ethanol (E85) stations, Natural Gas stations, Hydrogen stations, and Electric Vehicle Supply Equipment (EVSE). The National Renewable Energy Laboratory (NREL) obtains information about new stations from trade media, Clean Cities coordinators, a Submit New Station form on the Station Locator website, and through collaborating with infrastructure equipment and fuel providers, original equipment manufacturers (OEMs), and industry groups.

Government Publication Date: Jul 24, 2018

Registered Pesticide Establishments:

SSTS

List of active EPA-registered foreign and domestic pesticide-producing and device-producing establishments based on data from the Section Seven Tracking System (SSTS). The Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) Section 7 requires that facilities producing pesticides, active ingredients, or devices be registered. The list of establishments is made available by the EPA.

Government Publication Date: Mar 1, 2018

Polychlorinated Biphenyl (PCB) Notifiers:

PCB

Facilities included in the national list of facilities that have notified the United States Environmental Protection Agency (EPA) of Polychlorinated Biphenyl (PCB) activities. Any company or person storing, transporting or disposing of PCBs or conducting PCB research and development must notify the EPA and receive an identification number.

Government Publication Date: Nov 30, 2017

State**Pollution Emergency Alerting (PEAS):**

SPILLS

The PEAS listing maintained by the Department of Environmental Quality (DEQ) points out the environmental damages/pollution, such as tanker accidents, pipeline breaks, and releases of reportable quantities of hazardous substances. Inconsistencies which existed in the data as it came from the source have not been interpreted or fixed, the data is provided as it was received from the DEQ.

Government Publication Date: Jul 10, 2018

Baseline Environmental Assessment:

BEA

A Michigan Baseline Environmental Assessment (BEA) from the Department of Environmental Quality (DEQ) allows people to purchase or begin operating at a facility without being held liable for existing contamination. BEAs are used to gather enough information about the property being transferred so that existing contamination can be distinguished from any new releases that might occur after the new owner or operator takes over the property.

Government Publication Date: Sep 17, 2018

Dry Cleaning Facilities:

DRYCLEANERS

A listing of dry cleaning facilities registered with the Air Condition Division in the Michigan Department of Environmental Quality (DEQ).

Government Publication Date: Nov 30, 2017

Delisted Drycleaners List:

DELISTED DRYCLEANERS

List of sites removed from the drycleaning facilities database made available by the Michigan Department of Environmental Quality (DEQ).

Government Publication Date: Nov 30, 2017

Tribal

No Tribal additional environmental record sources available for this State.

County

No County additional environmental record sources available for this State.

Definitions

Database Descriptions: This section provides a detailed explanation for each database including: source, information available, time coverage, and acronyms used. They are listed in alphabetic order.

Detail Report: This is the section of the report which provides the most detail for each individual record. Records are summarized by location, starting with the project property followed by records in closest proximity.

Distance: The distance value is the distance between plotted points, not necessarily the distance between the sites' boundaries. All values are an approximation.

Direction: The direction value is the compass direction of the site in respect to the project property and/or center point of the report.

Elevation: The elevation value is taken from the location at which the records for the site address have been plotted. All values are an approximation. Source: Google Elevation API.

Executive Summary: This portion of the report is divided into 3 sections:

'Report Summary'- Displays a chart indicating how many records fall on the project property and, within the report search radii.

'Site Report Summary'-Project Property'- This section lists all the records which fall on the project property. For more details, see the 'Detail Report' section.

'Site Report Summary-Surrounding Properties'- This section summarizes all records on adjacent properties, listing them in order of proximity from the project property. For more details, see the 'Detail Report' section.

Map Key: The map key number is assigned according to closest proximity from the project property. Map Key numbers always start at #1. The project property will always have a map key of '1' if records are available. If there is a number in brackets beside the main number, this will indicate the number of records on that specific property. If there is no number in brackets, there is only one record for that property.

The symbol and colour used indicates 'elevation': the red inverted triangle will dictate 'ERIS Sites with Lower Elevation', the yellow triangle will dictate 'ERIS Sites with Higher Elevation' and the orange square will dictate 'ERIS Sites with Same Elevation.'

Unplottables: These are records that could not be mapped due to various reasons, including limited geographic information. These records may or may not be in your study area, and are included as reference.

Appendix E

Aerial Photograph Documentation



INQUIRY #: 4044815.5

YEAR: 1938

| = 500'





INQUIRY #: 4044815.5

YEAR: 1955

| = 500'





INQUIRY #: 4044815.5

YEAR: 1962

| = 500'





INQUIRY #: 4044815.5

YEAR: 1968

| = 500'





INQUIRY #: 4044815.5

YEAR: 1974

| = 600'





INQUIRY #: 4044815.5

YEAR: 1981

| = 600'





INQUIRY #: 4044815.5

YEAR: 1991

| = 500'





INQUIRY #: 4044815.5

YEAR: 1997

| = 500'





INQUIRY #: 4044815.5

YEAR: 2005

| = 500'



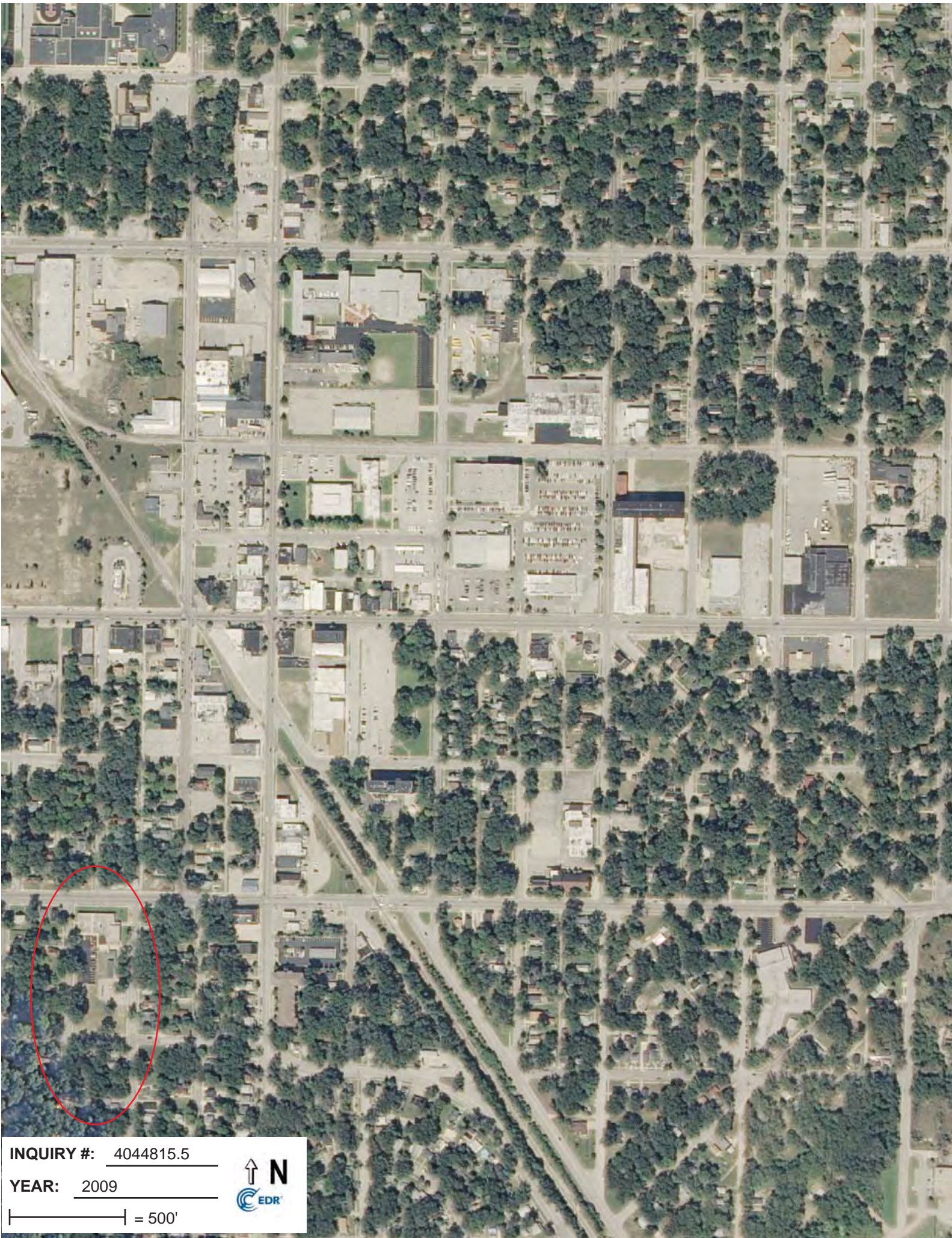


INQUIRY #: 4044815.5

YEAR: 2006

| = 500'





INQUIRY #: 4044815.5

YEAR: 2009

| = 500'





INQUIRY #: 4044815.5

YEAR: 2010

| = 500'





INQUIRY #: 4044815.5

YEAR: 2012

| = 500'



ATTACHMENT E

PHASE II REPORT

Conducted by AKT Peerless
Date: 11/28/2018



PHASE II ENVIRONMENTAL SITE ASSESSMENT

3001 Jefferson Street, Muskegon Heights, Michigan

PREPARED FOR Michigan Land Bank Fast Track Authority
300 North Washington Square
Lansing, Michigan 48913

PROJECT # 13789s

DATE November 28, 2018

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PHASE II ENVIRONMENTAL SITE ASSESSMENT

3001 Jefferson Street, Muskegon Heights, Michigan

AKT Peerless Project No. 13789s-4-20

1.0 Introduction

The Michigan Landbank Fast Track Authority retained AKT Peerless Environmental Services (AKT Peerless) to conduct a Phase II Environmental Site Assessment (ESA) of a property located at 3001 Jefferson Street in Muskegon, Michigan (subject property). This Phase II ESA was conducted in accordance with AKT Peerless' Proposal for a Phase II ESA (Proposal Number PS-23358), dated October 8, 2018, and is based on American Society for Testing and Materials (ASTM) Designation E 1903-11 "Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process."

This Phase II ESA scope of work is intended to evaluate the recognized environmental conditions (RECs) presented in Section 2.5. This Phase II ESA scope of work does not evaluate the following:

AKT Peerless' Phase II ESA report documents the field activities, sampling protocols, and laboratory results conducted as part of this assessment. AKT Peerless' Phase II ESA was performed for the benefit of Michigan Land Bank Fast Track Authority, who may rely on the contents and conclusions of this report.

2.0 Background

2.1 Site Description and Physical Setting

The subject property is located at 3001 Jefferson Street, Muskegon, Michigan, and comprises one parcel (Parcel Identification Number 60-26-70-0001-00) consisting of approximately 2.36 acres. The subject property contains a 16,000 square feet (Subject Building 1), a 1,200 square feet (Subject Building 2), and a 1,500 square feet (Subject Building 3) which were used as a former school, but are now currently vacant. Exterior portions of the subject property consist of buildings, landscaped areas, wooded areas and pavement.

The subject property is located in an area of Muskegon that is characterized by commercial properties, surface roadways, municipal sanitary sewer and water, as well as electrical and gas utilities. The subject property is zoned Commercial (C-2 C). The subject property is situated in the northeast quarter of the southeast quarter of section 6 in Muskegon Heights (T.9N./R.16E.), Muskegon County, Michigan.

Refer to Figure 1 for a topographic site location map. See Figure 2 for a sample location map.

2.2 Subject Property History and Land Use

The subject property currently consists of three unoccupied buildings that were formerly used as a school with classrooms. Subject Building 1 is a one-story, flat roof, concrete and steel frame building with a metal and brick exterior, concrete slab on grade foundation, which was constructed in between 1955-1962. Subject Building 2 is a one-story, flat roof, steel frame, brick and wood exterior, concrete slab on grade foundation with a crawlspace, which was constructed between 1981-1991. Subject Building 3 is a

one-story, flat roof, steel frame, metal exterior, concrete slab on grade foundation with a crawlspace which was constructed between 1997-2005.

The subject property was developed with residential structures and a school as of 1930.

2.3 Adjacent Property Land Use

The current use of the adjacent properties are all residential structures.

2.4 Previous Environmental Investigations

AKT Peerless was not provided with copies of reports that document previous investigations or assessments of the subject property, nor did AKT Peerless identify the existence of such documents during this assessment.

2.5 Summary of Recognized Environmental Concerns

REC 1 - During AKT Peerless' site reconnaissance, a suspected fill port and vent pipe was observed on the northern portion exterior of Subject Building 1. The potential exists these items are associated with an underground storage tank (UST). AKT Peerless' research did not identify any registered USTs associated with the subject property. The potential exists that hazardous substances and/or petroleum products from abandoned USTs may have impacted the subsurface of the subject property. In AKT Peerless' opinion, the potential presence of USTs of unknown contents and unknown condition presents a REC.

Therefore, further investigation and/or assessment is warranted in order to evaluate the nature, extent, magnitude, and materiality of the REC. Further, AKT Peerless recommends a ground-penetrating radar (GPR) survey to identify any anomalies consistent with an abandoned UST.

Controlled Recognized Environmental Conditions (CRECs)

This assessment has revealed no evidence of known CRECs in connection with the subject property.

Historical Recognized Environmental Conditions (HRECs)

This assessment has revealed no evidence of known HRECs in connection with the subject property.

3.0 Phase II Environmental Site Assessment Activities

The following sections summarize the site assessment activities conducted by AKT Peerless.

3.1 Scope of Assessment

To further evaluate the RECs, AKT Peerless conducted a subsurface investigation of the subject property that included: (1) the advancement of 2 soil borings and (2) the collection of 2 soil samples. The following samples were submitted for laboratory analyses:

- 2 soil samples for volatile organic compounds (VOCs) and polynuclear aromatic hydrocarbons (PNAs).

The following table summarizes each REC, the site investigation activities performed to address each REC, and the laboratory parameters used to address each REC.

Summary of Investigation Activity

REC #	Environmental Concern	Investigation Activity	Analytical Parameters
1	a suspected fill port and vent pipe was observed on the northern portion exterior of Subject Building 1. The potential exists that these items are associated with an UST. AKT Peerless' research did not identify any registered USTs associated with the subject property. The potential exists that hazardous substances and/or petroleum products from abandoned USTs may have impacted the subsurface of the subject property.	B1, B2	VOCs, PNAs

3.1.1 Geophysical Survey

On November 13, 2018, AKT Peerless conducted a geophysical survey in the northern exterior of Subject Building 1 to identify any former UST cavities and potential abandoned USTs, if any. The GPR survey was performed using a GSSI SIR-3000 GPR system with a 400- MHz dipole antenna. The instrument was calibrated prior to use to reflect site-specific conditions.

The geophysical survey completed by GII was conducted at the subject property, The results did not identify anomalies in the northern area of Subject Building 1. As this is an interpretation of survey results, no statement of fact, warranty or certification is either expressed or implied regarding the subsurface conditions at the subject property.

3.1.2 Soil Evaluation

On November 13, 2018, AKT Peerless advanced 2 soil borings at the subject property. AKT Peerless used hydraulic drive/direct-push (Geoprobe®) sampling techniques and followed the guidance outlined in ASTM publication E1903-11 "Standard Practice of Environmental Site Assessments: Phase II Environmental Site Assessment Process." AKT Peerless collected continuous soil samples from the soil borings in four-foot intervals to the maximum depth explored of 5 feet below ground surface (bgs). AKT Peerless personnel inspected, field-screened, and logged the samples collected at each soil boring location. Refer to Figure 2 for a sample location map. Boring logs are provided in Appendix A.

3.1.3 Groundwater Evaluation

AKT Peerless did not encountered groundwater in any of the soil borings advanced at the subject property.

3.2 Quality Assurance/Quality Control

To ensure the accuracy of data collected during on site activities, AKT Peerless implemented proper quality assurance/quality control (QA/QC) measures. The QA/QC procedures included, but were not limited to: (1) decontamination of sampling equipment before and between sampling events, (2) calibration of field equipment, (3) documentation of field activities, and (4) sample preservation techniques.

3.2.1 Decontamination of Equipment

During sample collection, AKT Peerless adhered to proper decontamination procedures. Sampling equipment was decontaminated using the following methods to minimize potential cross-contamination of soil samples:

- Steam-cleaning or washing and scrubbing the equipment with non-phosphate detergent
- Rinsing the equipment
- Air-drying the equipment

3.2.2 Calibration of Field Equipment

All field instruments were calibrated prior to first use on-site to ensure accuracy. Field instruments utilized during investigation activities at this subject property were a photoionization detector (PID).

During AKT Peerless' Phase II ESA, a PID was used to screen all soil samples. The PID was maintained in a calibrated condition using 100 ppm isobutylene span gas prior to subsurface investigations.

A sample scale was utilized during soil sampling activities to weigh approximately 10 grams of soil for the methanol preserved samples (i.e., soil samples designated for VOC analysis). The scale was maintained in a calibrated condition using calibration weights in accordance with the manufacturer's specifications.

3.2.3 Documentation of Activities

During AKT Peerless' Phase II ESA activities, subject property conditions (i.e. soil boring locations, weather conditions) were documented. AKT Peerless visually inspected the soil samples and prepared a geologic log for each soil boring. The logs include soil characteristics such as: (1) color, (2) composition (e.g., sand, clay, or gravel), (3) soil moisture, and (4) signs of possible contamination (i.e., stained or discolored soil, odors). Soil types were classified in accordance with ASTM publication D-2488 "Unified Soil Classification System." All soil and groundwater samples were delivered to Fibertec Environmental Services Laboratory under chain-of-custody documentation. See Appendix A for AKT Peerless' soil boring logs. See Figure 2 for site map with soil boring locations.

3.2.4 Sample Preservation Techniques

AKT Peerless collected soil samples according to USEPA Publication SW-846, "Test Methods for Evaluating Solid Waste." Soil samples were collected in laboratory-supplied containers, stored on ice or at approximately 4 degrees Celsius, and submitted under chain-of-custody documentation.

Soil samples collected for volatile analyses were field preserved with methanol in accordance with U.S. EPA Method 5035. Soil samples collected for PNAs were stored in unpreserved, 4-ounce wide-mouth jars.

3.3 Laboratory Analysis and Methods

AKT Peerless submitted two soil samples for laboratory analyses. The following table summarizes the location, depth, matrix, and laboratory analysis for each sample.

Sample Collection Summary

Sample Identification	Sample Matrix	Soil Sample Interval (feet bgs)	Laboratory Analytical Parameter(s)
B1	Soil	4.5-5'	VOCs, PNAs
B2	Soil	4.5-5'	VOCs, PNAs

The laboratory analyzed the samples for: (1) VOCs in accordance with USEPA Methods 5035A/EPA 8260B and (2) PNAs in accordance with USEPA Methods 3546/EPA 8270E.

4.0 Evaluation and Presentation of Results

4.1 Subsurface Conditions

The following sections summarize the physical soil conditions at the subject property.

4.1.1 Soil Conditions based on Published Material

Michigan Geological Survey Division's publication, *Quaternary Geology of Southern Michigan* (1982) the soil in the area is classified as Lacustrine sand and gravel, described as pale brown to pale reddish brown, fine to medium sand, commonly including beds or lenses of small gravel, chiefly quartz sand but gravel is rich in igneous and metamorphic rocks. These soils occur chiefly as former beach and near-offshore littoral deposits of glacial Great Lakes and may include intercalated lacustrine clay. Locally veneered by discontinuous sheets or small dunes of eolian sand and may include areas of organic soils. In the eastern part of the northern peninsula of Michigan these sands commonly grade upstream (north- or northwestward) into outwash deposits. Soil thickness ranges from 3 to 100 feet. Typically, lacustrine sand and gravel are associated with moderate hydraulic permeability and may allow the movement of contaminants through groundwater.

Describe groundwater information from site research.

4.1.2 Soil and Groundwater Conditions based on Field Observations

During drilling activities, AKT Peerless encountered the following soil types:

- TOPSOIL from the surface to approximately six inches below ground surface. This topsoil was dark brown in color.
- SAND from six inches to 5 feet bgs, the maximum depth explored. This sand was fine grain and light brown in color.

The subsurface soils at the property are consistent with the description of lacustrine clay and silt as described in the *Quaternary Geology of Southern Michigan*.

See Figure 4 for a site map with soil boring locations. See Appendix A for AKT Peerless' soil boring logs.

4.2 Laboratory Analytical Results

AKT Peerless collected soil samples for the purpose of evaluating general site environmental conditions and support future land use planning. When appropriate, analytical results were compared with Michigan Department of Environmental Quality (MDEQ) Generic Residential Cleanup Criteria (RCC) and Generic Non-Residential Cleanup Criteria (NRCC) provided in Michigan Administrative Rules 299.1 through 299.50.

4.2.1 Soil Analytical Results

AKT Peerless submitted two soil samples for laboratory analysis of VOCs, and PNAs. AKT Peerless compared the laboratory analytical results to the MDEQ Part 201 RCC. The laboratory analytical results from soil and groundwater samples collected at the subject property did not indicate the presence of target compounds above applicable MDEQ RCC.

Refer to Figure 4 for a site map with soil analytical results exceeding MDEQ criteria. Refer to Table 1 for a summary of soil analytical results. Refer to Appendix B for a complete analytical laboratory report.

5.0 Summary, Conclusions, and Recommendations

The following sections summarize the investigation conducted by AKT Peerless at the subject property.

5.1 Summary of Environmental Concerns

Based on AKT Peerless' Phase I ESA, the following environmental concerns were identified:

- A suspected fill port and vent pipe was observed on the northern portion exterior of Subject Building 1. The potential exists these items are associated with an UST.
- The potential exists that hazardous substances and/or petroleum products from abandoned USTs may have impacted the subsurface of the subject property.

5.2 Summary of Subsurface Investigation

On November 13, 2018, AKT Peerless conducted a subsurface investigation at the subject property to further evaluate environmental concerns identified during previous environmental investigations. AKT Peerless: (1) drilled 2 soil borings and (2) collected 2 soil samples for laboratory analyses. AKT Peerless submitted 2 soil samples for laboratory analyses of select parameters, including VOCs, and PNAs.

5.3 Conclusions

AKT Peerless completed two soil borings at the subject property to investigate the RECs identified in AKT Peerless' Phase I ESA, dated November 6, 2018 Phase I ESA. Laboratory analytical results from soil samples collected at the subject property during AKT Peerless' Phase II ESA did not indicate the presence of target compounds above applicable MDEQ RCC. Therefore, no further assessment is recommended.

6.0 Limitations

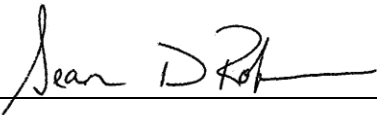
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7.0 Signatures of Environmental Professionals

The following individuals contributed to the completion of this report.



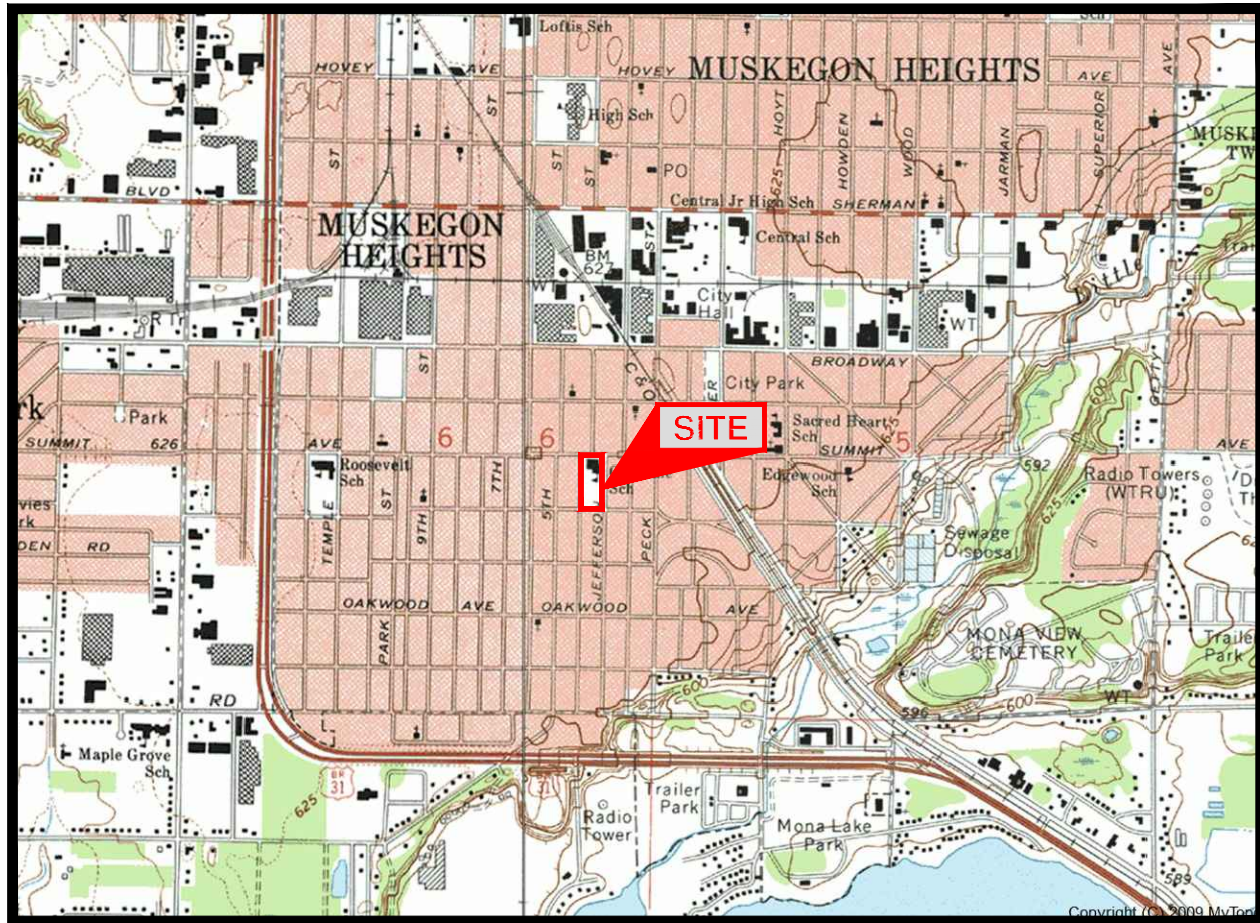
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FIGURES

MUSKEGON EAST QUADRANGLE
MICHIGAN - MUSKEGON COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.9 N.-R.16 W.

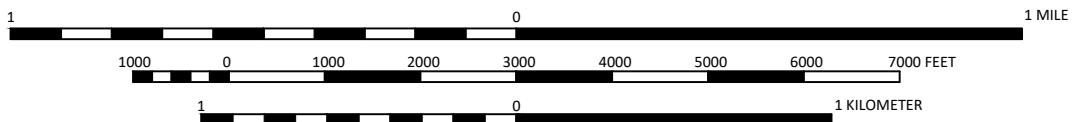
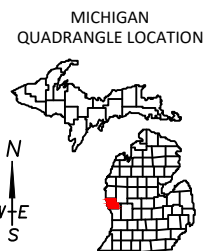


IMAGE TAKEN FROM 1972 U.S.G.S. TOPOGRAPHIC MAP
PHOTOREVISED 1980

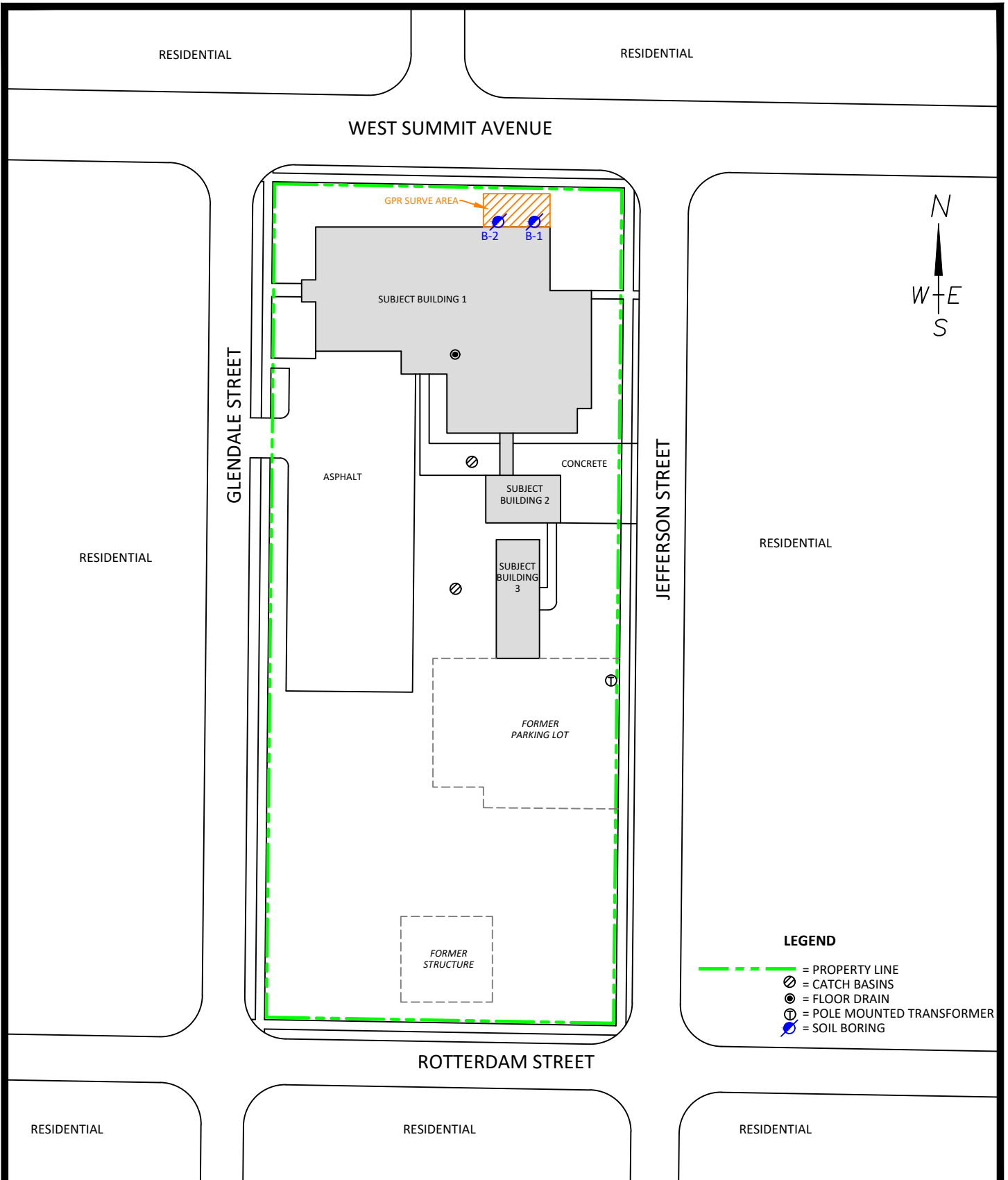


TOPOGRAPHIC LOCATION MAP

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-4-20

DRAWN BY: OGO
DATE: 12/06/2018

FIGURE 1



www.aktpeerless.com

SUBJECT PROPERTY MAP

3001 JEFFERSON STREET
MUSKEGON HEIGHTS, MICHIGAN
PROJECT NUMBER: 13789s-4-20

DRAWN BY: OGO
DATE: 12/06/2018

0 40 80
SCALE: 1" = 80'

FIGURE 2

TABLES

Table 1, Summary of Soil Analytical Results
3001 Jefferson Avenue
Bay City, Michigan
AKT Peerless Project No. 13789s

Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Finite VSIC for 5 Meter Source Thickness	Residential Finite VSIC for 2 Meter Source Thickness	Residential Particulate Soil Inhalation Criteria	Residential Direct Contact Criteria	Residential Soil Saturation Concentration Screening Levels	Sample Location	B1	B2
												Collection Date	11/27/2018	11/27/2018
												Depth	4.5-5'	4.5-5'
Semivolatiles, PNAs														
Acenaphthene	83-32-9	NA	3.0E+5	8,700	1.9E+8	8.1E+7	8.1E+7	8.1E+7	1.4E+10	4.1E+7	NA		BDL	BDL
Acenaphthylene	208-96-8	NA	5,900	ID	1.6E+6	2.2E+6	2.2E+6	2.2E+6	2.3E+9	1.6E+6	NA		BDL	BDL
Anthracene	120-12-7	NA	41,000	ID	1.0E+9 (D)	1.4E+9	1.4E+9	1.4E+9	6.7E+10	2.3E+8	NA		BDL	BDL
Benzo(a)anthracene (Q)	56-55-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		BDL	BDL
Benzo(a)pyrene (Q)	50-32-8	NA	NLL	NLL	NLV	NLV	NLV	NLV	1.5E+6	2,000	NA		BDL	BDL
Benzo(b)fluoranthene (Q)	205-99-2	NA	NLL	NLL	ID	ID	ID	ID	ID	20,000	NA		BDL	BDL
Benzo(g,h,i)perylene	191-24-2	NA	NLL	NLL	NLV	NLV	NLV	NLV	8.0E+8	2.5E+6	NA		BDL	BDL
Benzo(k)fluoranthene (Q)	207-08-9	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2.0E+5	NA		BDL	BDL
Chrysene (Q)	218-01-9	NA	NLL	NLL	ID	ID	ID	ID	ID	2.0E+6	NA		BDL	BDL
Dibenzo(a,h)anthracene (Q)	53-70-3	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	2,000	NA		BDL	BDL
Fluoranthene	206-44-0	NA	7.3E+5	5,500	1.0E+9 (D)	7.4E+8	7.4E+8	7.4E+8	9.3E+9	4.6E+7	NA		BDL	BDL
Fluorene	86-73-7	NA	3.9E+5	5,300	5.8E+8	1.3E+8	1.3E+8	1.3E+8	9.3E+9	2.7E+7	NA		BDL	BDL
Indeno(1,2,3-cd)pyrene (Q)	193-39-5	NA	NLL	NLL	NLV	NLV	NLV	NLV	ID	20,000	NA		BDL	BDL
2-Methylnaphthalene	91-57-6	NA	57,000	4,200	2.7E+6	1.5E+6	1.5E+6	1.5E+6	6.7E+8	8.1E+6	NA		BDL	BDL
Phenanthrene	85-01-8	NA	56,000	2,100	2.8E+6	1.6E+5	1.6E+5	1.6E+5	6.7E+6	1.6E+6	NA		BDL	BDL
Pyrene	129-00-0	NA	4.8E+5	ID	1.0E+9 (D)	6.5E+8	6.5E+8	6.5E+8	6.7E+9	2.9E+7	NA		BDL	BDL
Volatiles														
Acetone (I)	67-64-1	NA	15,000	34,000	2.9E+8 (C)	1.3E+8	1.3E+8	1.9E+8	3.9E+11	2.3E+7	1.1E+8		BDL	BDL
Acetonitrile	75-05-8	NA	2,800	2.6E+5	4.8E+6	1.6E+6	1.6E+6	2.1E+6	4.0E+9	4.3E+6	2.2E+7		BDL	BDL
Acetophenone	98-86-2	NA	30,000	ID	1.2E+8 (C)	4.4E+7	4.4E+7	4.4E+7	3.3E+10	4.7E+7 (C)	1.1E+6		BDL	BDL
Acrolein (I)	107-02-8	NA	2,400	NA	410	310	310	610	1.3E+6	3.6E+6	2.3E+7		BDL	BDL
Acrylamide	79-06-1	NA	10	200 (X)	NLV	NLV	NLV	NLV	2.4E+6	1,900	NA		BDL	BDL
Acrylonitrile (I)	107-13-1	NA	100 (M); 52	100 (M); 40	6,600	5,000	5,100	10,000	4.6E+7	16,000	8.3E+6		BDL	BDL
t-Amyl methyl ether (TAME)	994-05-8	NA	3,900	NA	58,000	3.4E+5	7.6E+5	1.8E+6	4.1E+9	2.9E+7 (C)	4.4E+5		BDL	BDL
Benzene (I)	71-43-2	NA	100	4,000 (X)	1,600	13,000	34,000	79,000	3.8E+8	1.8E+5	4.0E+5		BDL	BDL
Benzyl chloride	100-44-7	NA	150	NA	6,300	14,000	14,000	17,000	6.2E+7	48,000	2.3E+5		BDL	BDL
Bromobenzene (I)	108-86-1	NA	550	NA	3.1E+5	4.5E+5	4.5E+5	4.5E+5	5.3E+8	5.4E+5	7.6E+5		BDL	BDL
Bromochloromethane	74-97-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
Bromodichloromethane	75-27-4	NA	1,600 (W)	ID	1,200	9,100	9,700	19,000	8.4E+7	1.1E+5	1.5E+6		BDL	BDL
Bromoform	75-25-2	NA	1,600 (W)	ID	1.5E+5	9.0E+5	9.0E+5	9.0E+5	2.8E+9	8.2E+5	8.7E+5		BDL	BDL
Bromomethane	74-83-9	NA	200	100	860	11,000	57,000	1.4E+5	3.3E+8	3.2E+5	2.2E+6		BDL	BDL
n-Butanol (I)	71-36-3	NA	19,000	2.0E+5	NLV	NLV	NLV	NLV	2.3E+10	2.9E+7 (C)	8.7E+6		BDL	BDL
2-Butanone (MEK) (I)	78-93-3	NA	2.6E+5	44,000	5.4E+7 (C)	2.9E+7	2.9E+7	3.5E+7	6.7E+10	1.2E+8 (C,DD)	2.7E+7		BDL	BDL
n-Butyl acetate	123-86-4	NA	11,000	NA	5.6E+7 (C)	1.1E+8	2.6E+8	3.2E+8	4.7E+11	1.7E+7 (C)	1.1E+6		BDL	BDL
t-Butyl alcohol	75-65-0	NA	78,000	NA	3.1E+8 (C)	9.7E+7	2.0E+8	2.0E+8	1.3E+11	1.2E+8 (C)	1.1E+8		BDL	BDL
n-Butylbenzene	104-51-8	NA	1,600	ID	ID	ID	ID	ID	2.0E+9	2.5E+6	1.0E+7		BDL	BDL
sec-Butylbenzene	135-98-8	NA	1,600	ID	ID	ID	ID	ID	4.0E+8	2.5E+6	1.0E+7		BDL	BDL

Table 1, Summary of Soil Analytical Results
3001 Jefferson Avenue
Bay City, Michigan
AKT Peerless Project No. 13789s

Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Finite VSIC for 5 Meter Source Thickness	Residential Finite VSIC for 2 Meter Source Thickness	Residential Particulate Soil Inhalation Criteria	Residential Direct Contact Criteria	Residential Soil Saturation Concentration Screening Levels	Sample Location	B1	B2
												Collection Date	11/27/2018	11/27/2018
												Depth	4.5-5'	4.5-5'
tert-Butylbenzene (I)	98-06-6	NA	1,600	ID	ID	ID	ID	ID	6.7E+8	2.5E+6	1.0E+7		BDL	BDL
Carbon disulfide (I,R)	75-15-0	NA	16,000	ID	76,000	1.3E+6	7.9E+6	1.9E+7	4.7E+10	7.2E+6 (C,DD)	2.8E+5		BDL	BDL
Carbon tetrachloride	56-23-5	NA	100	760 (X)	190	3,500	12,000	28,000	1.3E+8	96,000	3.9E+5		BDL	BDL
Chlorobenzene (I)	108-90-7	NA	2,000	500	1.2E+5	7.7E+5	9.9E+5	2.1E+6	4.7E+9	4.3E+6 (C)	2.6E+5		BDL	BDL
Chloroethane	75-00-3	NA	8,600	22,000 (X)	2.9E+6 (C)	3.0E+7	1.2E+8	2.8E+8	6.7E+11	2.6E+6 (C)	9.5E+5		BDL	BDL
2-Chloroethyl vinyl ether	110-75-8	NA	ID	NA	ID	ID	ID	ID	ID	ID	1.9E+6		BDL	BDL
Chloroform	67-66-3	NA	1,600 (W)	7,000	7,200	45,000	1.2E+5	2.7E+5	1.3E+9	1.2E+6	1.5E+6		BDL	BDL
Chloromethane (I)	74-87-3	NA	5,200	ID	2,300	40,000	4.1E+5	1.0E+6	4.9E+9	1.6E+6 (C)	1.1E+6		BDL	BDL
o-Chlorotoluene (I)	95-49-8	NA	3,300	ID	2.7E+5	1.2E+6	2.9E+6	6.3E+6	4.7E+9	4.5E+6 (C)	5.0E+5		BDL	BDL
Cyclohexanone	108-94-1	NA	5.2E+6	NA	17,000	1.0E+6	1.1E+7	2.7E+7	6.7E+10	1.0E+9 (C,D)	2.2E+8		BDL	BDL
Dibromochloromethane	124-48-1	NA	1,600 (W)	ID	3,900	24,000	24,000	33,000	1.3E+8	1.1E+5	6.1E+5		BDL	BDL
Dibromochloropropane	96-12-8	NA	10 (M); 4.0	ID	220	260	260	260	5.6E+5	4,400 (C)	1,200		BDL	BDL
Dibromomethane	74-95-3	NA	1,600	NA	ID	ID	ID	ID	ID	2.5E+6 (C)	2.0E+6		BDL	BDL
1,2-Dichlorobenzene	95-50-1	NA	14,000	280	1.1E+7 (C)	3.9E+7	3.9E+7	5.2E+7	1.0E+11	1.9E+7 (C)	2.1E+5		BDL	BDL
1,3-Dichlorobenzene	541-73-1	NA	170	680	26,000	79,000	79,000	1.1E+5	2.0E+8	2.0E+5 (C)	1.7E+5		BDL	BDL
1,4-Dichlorobenzene	106-46-7	NA	1,700	360	19,000	77,000	77,000	1.1E+5	4.5E+8	4.0E+5	NA		BDL	BDL
trans-1,4-Dichloro-2-butene	110-57-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
Dichlorodifluoromethane	75-71-8	NA	95,000	ID	9.0E+5	5.3E+7	5.5E+8	1.4E+9	3.3E+12	5.2E+7 (C)	1.0E+6		BDL	BDL
1,1-Dichloroethane	75-34-3	NA	18,000	15,000	2.3E+5	2.1E+6	5.9E+6	1.4E+7	3.3E+10	2.7E+7 (C)	8.9E+5		BDL	BDL
1,2-Dichloroethane (I)	107-06-2	NA	100	7,200 (X)	2,100	6,200	11,000	26,000	1.2E+8	91,000	1.2E+6		BDL	BDL
cis-1,2-Dichloroethylene	156-59-2	NA	1,400	12,000	22,000	1.8E+5	4.2E+5	9.9E+5	2.3E+9	2.5E+6 (C)	6.4E+5		BDL	BDL
trans-1,2-Dichloroethylene	156-60-5	NA	2,000	30,000 (X)	23,000	2.8E+5	8.3E+5	2.0E+6	4.7E+9	3.8E+6 (C)	1.4E+6		BDL	BDL
1,1-Dichloroethylene (I)	75-35-4	NA	140	2,600	62	1,100	5,300	13,000	6.2E+7	2.0E+5	5.7E+5		BDL	BDL
1,2-Dichloropropane (I)	78-87-5	NA	100	4,600 (X)	4,000	25,000	50,000	1.1E+5	2.7E+8	1.4E+5	5.5E+5		BDL	BDL
1,3-Dichloropropene	542-75-6	NA	170	180 (X)	1,000	18,000	68,000	1.6E+5	7.8E+8	10,000	6.2E+5		BDL	BDL
cis-1,3-Dichloropropylene	10061-01-5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
trans-1,3-Dichloropropylene	10061-02-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
Diethyl ether	60-29-7	NA	200	ID	2.8E+7 (C)	8.5E+7	1.5E+8	3.4E+8	8.0E+11	1.1E+8 (C)	7.4E+6		BDL	BDL
Diisopropyl ether	108-20-3	NA	600	ID	6.7E+5 (C)	3.4E+5	7.6E+5	1.8E+6	4.1E+9	9.2E+5 (C)	1,300		BDL	BDL
1,4-Dioxane (I)	123-91-1	NA	1,700	5,600 (X)	NLV	NLV	NLV	NLV	5.7E+8	5.3E+5	9.7E+7		BDL	BDL
Epichlorohydrin (I)	106-89-8	NA	100	NA	64,000	31,000	31,000	35,000	6.7E+7	8,900	7.3E+6		BDL	BDL
Ethanol (I)	64-17-5	NA	3.8E+7	ID	NLV	NLV	NLV	NLV	1.3E+12	1.0E+9 (C,D,DD)	1.1E+8		BDL	BDL
Ethylbenzene (I)	100-41-4	NA	1,500	360	87,000	7.2E+5	1.0E+6	2.2E+6	1.0E+10	2.2E+7 (C)	1.4E+5		BDL	BDL
Ethylene dibromide	106-93-4	NA	20 (M); 1.0	110 (X)	670	1,700	1,700	3,300	1.4E+7	92	8.9E+5		BDL	BDL
Ethyl-tert-butyl ether (ETBE)	637-92-3	NA	980	ID	5.4E+5	1.9E+6	4.5E+6	1.1E+7	2.5E+10	ID	6.5E+5		BDL	BDL
2-Hexanone	591-78-6	NA	20,000	ID	9.9E+5	1.1E+6	1.1E+6	1.4E+6	2.7E+9	3.2E+7 (C)	2.5E+6		BDL	BDL
Isobutyl alcohol (I)	78-83-1	NA	46,000	NA	2.3E+8 (C)	7.9E+7	7.9E+7	7.9E+7	1.0E+11	7.2E+7 (C)	8.9E+6		BDL	BDL
Isopropyl alcohol (I)	67-63-0	NA	9,400	1.1E+6 (X)	NLV	NLV	NLV	NLV	1.5E+10	1.4E+7	1.1E+8		BDL	BDL
Isopropyl benzene	98-82-8	NA	91,000	3,200	4.0E+5 (C)	1.7E+6	1.7E+6	2.8E+6	5.8E+9	2.5E+7 (C)	3.9E+5		BDL	BDL


Table 1, Summary of Soil Analytical Results
3001 Jefferson Avenue
Bay City, Michigan
AKT Peerless Project No. 13789s


Parameters*	Chemical Abstract Service Number	Statewide Default Background Levels	Residential Drinking Water Protection Criteria	Groundwater Surface Water Interface Protection Criteria	Residential Soil Volatilization to Indoor Air Inhalation Criteria	Residential Infinite Source Volatile Soil Inhalation Criteria (VSIC)	Residential Finite VSIC for 5 Meter Source Thickness	Residential Finite VSIC for 2 Meter Source Thickness	Residential Particulate Soil Inhalation Criteria	Residential Direct Contact Criteria	Residential Soil Saturation Concentration Screening Levels	Sample Location	B1	B2
												Collection Date	11/27/2018	11/27/2018
												Depth	4.5-5'	4.5-5'
*(Refer to detailed laboratory report for method reference data)														
p-Isopropyltoluene	99-87-6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
Methanol	67-56-1	NA	74,000	1.2E+7 (C)	3.7E+7 (C)	3.1E+7	4.4E+7	9.6E+7	2.2E+11	1.1E+8 (C)	3.1E+6		BDL	BDL
Methyl Iodide	74-88-4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		BDL	BDL
4-Methyl-2-pentanone (MIBK) (I)	108-10-1	NA	36,000	ID	3.7E+7 (C)	4.5E+7	4.5E+7	6.7E+7	1.4E+11	5.6E+7 (C)	2.7E+6		BDL	BDL
Methylcyclopentane (I)	96-37-7	NA	ID	NA	92,000	2.3E+6	8.2E+6	2.0E+7	4.7E+10	ID	3.5E+5		BDL	BDL
Methylene chloride	75-09-2	NA	100	30,000 (X)	45,000	2.1E+5	5.9E+5	1.4E+6	6.6E+9	1.3E+6	2.3E+6		BDL	BDL
Methyl-tert-butyl ether (MTBE)	1634-04-4	NA	800	1.4E+5 (X)	9.9E+6 (C)	2.5E+7	3.9E+7	8.7E+7	2.0E+11	1.5E+6	5.9E+6		BDL	BDL
Naphthalene	91-20-3	NA	35,000	730	2.5E+5	3.0E+5	3.0E+5	3.0E+5	2.0E+8	1.6E+7	NA	BDL	BDL	

- (A) Criterion is the state of Michigan drinking water standard established pursuant to Section 5 of 1976 PA 399, MCL 325.1005.
- (B) Background, as defined in R 299.1(b), may be substituted if higher than the calculated cleanup criterion. Background levels may be less than criteria for some inorganic compounds.
- (C) The criterion developed under R 299.20 to R 299.26 exceeds the chemical-specific soil saturation screening level (C_{sat}). The person proposing or implementing response activity shall document whether additional response activity is required to control free-phase liquids or NAPL to protect against risks associated with free-phase liquids by using methods appropriate for the free-phase liquids present. Development of a site-specific C_{sat} or methods presented in R 299.22, R 299.24(5), and R 299.26(8) may be conducted for the relevant exposure pathways.
- (D) Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent or 1.0E+9 parts per billion (ppb).
- (E) Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA). A notice of aesthetic impact may be employed as an institutional control mechanism if groundwater concentrations exceed the aesthetic drinking water criterion, but do not exceed the applicable health-based drinking water value [as provided in the table in Footnote (E) in R 299.49].
- (F) Criterion is based on adverse impacts to plant life and phytotoxicity.
- (G) Groundwater surface water interface (GSI) criterion depends on the pH or water hardness, or both, of the receiving surface water. The final chronic value (FCV) for the protection of aquatic life shall be calculated based on the pH or hardness of the receiving surface water. Where water hardness exceeds 400 mg CaCO_3/L , use 400 mg CaCO_3/L for the FCV calculation. The FCV formula provides values in units of $\mu\text{g}/\text{L}$ or ppb. The generic GSI criterion is the lesser of the calculated FCV, the wildlife value (WV), and the surface water human non-drinking water value (HNDV). The soil GSI protection criteria for these hazardous substances are the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote. [See table in Footnote (G) in R 299.49].
- (H) Valence-specific chromium data (Cr III and Cr VI) shall be compared to the corresponding valence-specific cleanup criteria. If both Cr III and Cr VI are present in groundwater, the total concentration of both cannot exceed the drinking water criterion of 100 $\mu\text{g}/\text{L}$. If analytical data are provided for total chromium only, they shall be compared to the cleanup criteria for Cr VI. Cr III soil cleanup criterion for protection of drinking water can only be used at sites where groundwater is prevented from being used as a public water supply, currently and in the future, through an approved land or resource use restriction.
- (I) Hazardous substance may exhibit the characteristic of ignitability as defined in 40 C.F.R. §261.21 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (J) Hazardous substance may be present in several isomer forms. Isomer-specific concentrations shall be added together for comparison to criteria.
- (K) Hazardous substance may be flammable or explosive, or both.
- (L) Criteria for lead are derived using a biologically based model, as allowed for under Section 20120a(9) of the NREPA, and are not calculated using the algorithms and assumptions specified in pathway-specific rules. The generic residential drinking water criterion of 4 $\mu\text{g}/\text{L}$ is linked to the generic residential soil direct contact criterion of 400 mg/kg. A higher concentration in the drinking water, up to the state action level of 15 $\mu\text{g}/\text{L}$, may be allowed as a site-specific remedy and still allow for drinking water use, under Section 20120a(2) of the NREPA if soil concentrations are appropriately lower than 400 mg/kg. If a site-specific criterion is approved based on this subdivision, a notice shall be filed on the deed for all property where the groundwater concentrations will exceed 4 $\mu\text{g}/\text{L}$ to provide notice of the potential for unacceptable risk if soil or groundwater concentrations increase. Acceptable concentrations of site-specific soil and drinking water concentrations are presented in the [table in Footnote (L) in R 299.49].
- (M) Calculated criterion is below the analytical target detection limit, therefore, the criterion defaults to the target detection limit.
- (N) The concentrations of all potential sources of nitrate-nitrogen (e.g., ammonia-N, nitrite-N, nitrate-N) in groundwater that is used as a source of drinking water shall not, when added together, exceed the nitrate drinking water criterion of 10,000 $\mu\text{g}/\text{L}$. Where leaching to groundwater is a relevant pathway, soil concentrations of all potential sources of nitrate-nitrogen shall not, when added together, exceed the nitrate drinking water protection criterion of 2.0E+5 $\mu\text{g}/\text{kg}$.
- (O) The concentration of all polychlorinated and polybrominated dibenzodioxin and dibenzofuran isomers present at a facility, expressed as an equivalent concentration of 2,3,7,8-tetrachlorodibenzo-p-dioxin based upon their relative potency, shall be added together and compared to the criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin. The generic cleanup criteria for 2,3,7,8-tetrachlorodibenzo-p-dioxin are not calculated according to the algorithms presented in R 299.14 to R 299.26. The generic cleanup criteria are being held at the values that the DEQ has used since August 1998, in recognition of the fact that national efforts to reassess risks posed by dioxin are not yet complete. Until these studies are complete, it is premature to select a revised slope factor and/or reference dose for calculation of generic cleanup criteria.
- (P) Amenable cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with all groundwater criteria. Total cyanide methods or method OIA-1677 shall be used to quantify cyanide concentrations for compliance with soil criteria. Nonresidential direct contact criteria may not be protective of the potential for release of hydrogen cyanide gas. Additional land or resource use restrictions may be necessary to protect for the acute inhalation concerns associated with hydrogen cyanide gas.
- (Q) Criteria for carcinogenic polycyclic aromatic hydrocarbons were developed using relative potential potencies to benzo(a)pyrene.
- (R) Hazardous substance may exhibit the characteristic of reactivity as defined in 40 C.F.R. §261.23 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (S) Criterion defaults to the hazardous substance-specific water solubility limit.
- (T) Refer to the federal Toxic Substances Control Act (TSCA), 40 C.F.R. §761, subpart D and 40 C.F.R. §761, Subpart G, to determine the applicability of TSCA cleanup standards. Subpart D and subpart G of 40 C.F.R. §761 (July 1, 2001) are adopted by reference in these rules. Alternatives to compliance with the TSCA standards listed below are possible under 40 C.F.R. §761 Subpart D. New releases may be subject to the standards identified in 40 C.F.R. §761, Subpart G. Use Part 201 soil direct contact cleanup criteria in the following table if TSCA standards are not applicable. [See table in Footnote (T) in R 299.49].
- (U) Hazardous substance may exhibit the characteristic of corrosivity as defined in 40 C.F.R. §261.22 (revised as of July 1, 2001), which is adopted by reference in these rules.
- (V) Criterion is the aesthetic drinking water value as required by Section 20120a(5) of the NREPA. Concentrations up to 200 $\mu\text{g}/\text{L}$ may be acceptable, and still allow for drinking water use, as part of a site-specific cleanup under Section 20120a(2) and 20120b of the NREPA.
- (W) Concentrations of trihalomethanes in groundwater shall be added together to determine compliance with the Michigan drinking water standard of 80 $\mu\text{g}/\text{L}$. Concentrations of trihalomethanes in soil shall be added together to determine compliance with the drinking water protection criterion of 1,600 $\mu\text{g}/\text{kg}$.
- (X) The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source. For a groundwater discharge to the Great Lakes and their connecting waters or discharge in close proximity to a water supply intake in inland surface waters, the generic GSI criterion shall be the surface water human drinking water value (HDV) listed in the [table in Footnote (X) in R 299.49], except for those HDV indicated with an asterisk. For HDV with an asterisk, the generic GSI criterion shall be the lowest of the HDV, the WV, and the calculated FCV. See formulas in [the table in Footnote (G) in R 299.49]. Soil protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria based on the HDV shall be as listed in the [table in Footnote (X) in R 299.49], except for those values with an asterisk. Soil GSI protection criteria for compounds with an asterisk shall be the greater of 20 times the GSI criterion or the GSI soil-water partition values using the GSI criteria developed with the procedure described in this footnote.
- (Y) Source size modifiers shown in the [table in Footnote (Y) in R 299.49] shall be used to determine soil inhalation criteria for ambient air when the source size is not one-half acre. The modifier shall be multiplied by the generic soil inhalation criteria shown in the table of generic cleanup criteria to determine the applicable criterion. See Footnote (C) [in R 299.49].
- (Z) Mercury is typically measured as total mercury. The generic cleanup criteria, however, are based on data for different species of mercury. Specifically, data for elemental mercury, chemical abstract service (CAS) number 7439976, serve as the basis for the soil volatilization to indoor air criteria, groundwater volatilization to indoor air, and soil inhalation criteria. Data for methyl mercury, CAS number 22967926, serve as the basis for the GSI criterion; and data for mercuric chloride, CAS number 7487947, serve as the basis for the drinking water, groundwater contact, soil direct contact, and the groundwater protection criteria. Comparison to criteria shall be based on species-specific analytical data only if sufficient facility characterization has been conducted to rule out the presence of other species of mercury.
- (AA) Use 10,000 $\mu\text{g}/\text{L}$ where groundwater enters a structure through the use of a water well, sump or other device. Use 28,000 $\mu\text{g}/\text{L}$ for all other uses.
- (BB) The state drinking water standard for asbestos (fibers greater than 10 micrometers in length) is in units of a million fibers per liter of water (MFL). Soil concentrations of asbestos are determined by polarized light microscopy.
- (CC) Groundwater: The generic GSI criteria are based on the toxicity of unionized ammonia (NH_3); the criteria are 29 $\mu\text{g}/\text{L}$ and 53 $\mu\text{g}/\text{L}$ for cold water and warm water surface water, respectively. As a result, the GSI criterion shall be compared to the percent of the total ammonia concentration in the groundwater that will become NH_3 in the surface water. This percent NH_3 is a function of the pH and temperature of the receiving surface water and can be estimated using the [table in Footnote (CC) in R 299.49], taken from Emerson, et al., (Journal of the Fisheries Research Board of Canada, Volume 32(12):2382, 1975). The generic approach for estimating NH_3 assumes a default pH of 8 and default temperatures of 68 °F and 85 °F for cold water and warm water surface water, respectively. The resulting NH_3 is 3.8 percent and 7.2 percent for cold water and warm water, respectively. This default percentage shall be multiplied by the total ammonia-nitrogen ($\text{NH}_3\text{-N}$) concentration in the groundwater and the resulting NH_3 concentration compared to the applicable GSI criterion. As an alternative, the maximum pH and temperature data from the specific receiving surface water can be used to estimate, from the [table in Footnote (CC) in R 299.49], a lower percent unionized ammonia concentration for comparison to the generic GSI.
- Soil: The generic soil GSI protection criteria for unionized ammonia are 580 $\mu\text{g}/\text{kg}$ and 1.100 $\mu\text{g}/\text{kg}$ for cold water and warm water surface water, respectively.
- (DD) Hazardous substance causes developmental effects. Residential direct contact criteria are protective of both prenatal and postnatal exposure. Nonresidential direct contact criteria are protective for a pregnant adult receptor.
- (EE) The [values listed in the table in Footnote (EE) in 299.49] are applicable generic GSI criteria as required by Section 20120e of the NREPA.
- (FF) The chloride GSI criterion shall be 125 mg/L when the discharge is to surface waters of the state designated as public water supply sources or 50 mg/L when the discharge is to the Great Lakes or connecting waters. Chloride GSI criteria shall not apply for surface waters of the state that are not designated as a public water supply source, however, the total dissolved solids criterion is applicable.
- (GG) Risk-based criteria are not available for methane due to insufficient toxicity data. An acceptable soil gas concentration (presented for both residential and nonresidential land uses) was derived utilizing 25 percent of the lower explosive level for methane. This equates to 1.25 percent or 8.4E+6 $\mu\text{g}/\text{m}^3$.
- (HH) The residential criterion for sodium is 230,000 $\mu\text{g}/\text{L}$ in accordance with the Sodium Advisory Council recommendation and revised Groundwater Discharge Standards.
- ID Insufficient data to develop criterion.
- NA A criterion or value is not available or, in the case of background and CAS numbers, not applicable.
- NLL Hazardous substance is not likely to leach under most soil conditions.
- NLV Hazardous substance is not likely to volatilize under most conditions.
- $\mu\text{g}/\text{kg}$ Micrograms per kilogram
- $\mu\text{g}/\text{L}$ Micrograms per liter
- NS Not sampled
- BDL Below Laboratory Method Detection Limits
- BOLD** Exceeds highlighted criteria.

Appendix A

Soil Boring Logs

				BORING LOG 3001 Jefferson Muskegon, Michigan AKT Peerless Project No: 13789s			B1 Drawn By: John Warner Date: 11/28/2018	
DRILLING COMPANY: AKT Peerless				WEATHER: 40° Cloudy				
TECHNICIAN: Bill Fox				BORING DEPTH: 5'				
DATE DRILLED: 11/13/18				DEPTH TO GW: NA				
DRILLING METHOD: Push Probe				SCREEN INTERVAL: NA				
FIELD GEOLOGIST: John Warner				SCREEN MATERIAL: NA				
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM
		90%	<.01	SW	Dark Brown	Topsoil	M	
				SW	Light Brown	Sand-Fine Grain	M	
2								
4								
6						End of Boring		
8								
10								
12								
14								
16								
18								
20								

				BORING LOG 3001 Jefferson Muskegon, Michigan AKT Peerless Project No: 13789s				B2	
								Drawn By: John Warner Date: 11/28/2018	
				DRILLING COMPANY: AKT Peerless				WEATHER: 40° Cloudy	
TECHNICIAN: Bill Fox				BORING DEPTH: 5'					
DATE DRILLED: 11/13/18				DEPTH TO GW: NA					
DRILLING METHOD: Push Probe				SCREEN INTERVAL: NA					
FIELD GEOLOGIST: John Warner				SCREEN MATERIAL: NA					
DEPTH FEET	SAMPLE INTERVAL	% RECOVERY	PID VALUE	USCS SOIL CLASS.	COLOR	GEOLOGIC DESCRIPTION	MOISTURE	TEMPORARY WELL DIAGRAM	
		90%	<.01	SW	Dark Brown	Topsoil	M		
				SW	Light Brown	Sand-Fine Grain	M		
2									
4									
6						End of Boring			
8									
10									
12									
14									
16									
18									
20									

Appendix B

Laboratory Analytical Results



Wednesday, December 05, 2018

Fibertec Project Number: 87971
Project Identification: 137895 /137895
Submittal Date: 11/28/2018

Mr. Sean Robinson
AKT Peerless Environ. Svcs, Inc. - Saginaw
214 South Janes Ave.
Saginaw, MI 48607

Dear Mr. Robinson,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 10 calendar days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

A handwritten signature in black ink, appearing to read "Rikki Lott". The signature is fluid and cursive.

By Rikki Lott at 4:12 PM, Dec 05, 2018

For Daryl P. Strandbergh
Laboratory Director

Enclosures

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-001

Order: 87971
Page: 2 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B1	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:30
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: 87971-001	Matrix: Soil/Solid			
Method: ASTM D2216-10						Description: B1				
						Preparation		Analysis		
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	8		%	1	1.0	12/03/18	MC181203	12/04/18	MC181203	JBA

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: 87971-001A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260B					Description: B1					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 2. Acrylonitrile	U		µg/kg	130	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
3. Benzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
4. Bromobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
5. Bromochloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
6. Bromodichloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
7. Bromoform	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
8. Bromomethane	U		µg/kg	200	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
9. 2-Butanone	U		µg/kg	750	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
10. n-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
11. sec-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
12. tert-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
13. Carbon Disulfide	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
14. Carbon Tetrachloride	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
15. Chlorobenzene	U		µg/kg	66	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
16. Chloroethane	U	L+	µg/kg	330	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
17. Chloroform	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
18. Chloromethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
19. 2-Chlorotoluene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
21. Dibromochloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
22. Dibromomethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-001

Order: 87971
Page: 3 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B1	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:30
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260B

Aliquot ID: 87971-001A Matrix: Soil/Solid
Description: B1

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
35. Ethylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
36. Ethylene Dibromide	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
37. 2-Hexanone	U		µg/kg	2500	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
38. Isopropylbenzene	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
40. Methylene Chloride	U		µg/kg	130	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
42. MTBE	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
43. Naphthalene	U		µg/kg	330	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
44. n-Propylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
45. Styrene	U		µg/kg	66	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	66	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
48. Tetrachloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
49. Toluene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
51. 1,1,1-Trichloroethane	U		µg/kg	66	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
53. Trichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
54. Trichlorofluoromethane	U		µg/kg	130	1.0	12/03/18	VP18L03A	12/03/18	VP18L03A	MAK
55. 1,2,3-Trichloropropane	U		µg/kg	130	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
59. Vinyl Chloride	U		µg/kg	46	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
60. m&p-Xylene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
61. o-Xylene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 62. Xylenes	U		µg/kg	150	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-001

Order: 87971
Page: 4 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B1	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:30
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: 87971-001
Description: B1
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
2. Acenaphthylene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
3. Anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
4. Benzo(a)anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
5. Benzo(a)pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
9. Chrysene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
11. Fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
12. Fluorene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
15. Naphthalene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
16. Phenanthrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
17. Pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-002

Order: 87971
Page: 5 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B2	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Water (Moisture) Content Dried at 105 ± 5°C						Aliquot ID: 87971-002		Matrix: Soil/Solid			
Method: ASTM D2216-10						Description: B2					
						Preparation		Analysis			
Parameter(s)		Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
‡ 1. Percent Moisture (Water Content)		4		%	1	1.0	12/03/18	MC181203	12/04/18	MC181203	JBA

Volatile Organic Compounds (VOCs) by GC/MS, 5035					Aliquot ID: 87971-002A	Matrix: Soil/Solid				
Method: EPA 5035A/EPA 8260B					Description: B2					
Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 2. Acrylonitrile	U		µg/kg	110	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
3. Benzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
4. Bromobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
5. Bromochloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
6. Bromodichloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
7. Bromoform	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
8. Bromomethane	U		µg/kg	200	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
9. 2-Butanone	U		µg/kg	750	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
10. n-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
11. sec-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
12. tert-Butylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
13. Carbon Disulfide	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
14. Carbon Tetrachloride	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
15. Chlorobenzene	U		µg/kg	53	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
16. Chloroethane	U	L+	µg/kg	270	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
17. Chloroform	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
18. Chloromethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
19. 2-Chlorotoluene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 20. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
21. Dibromochloromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
22. Dibromomethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
23. 1,2-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
24. 1,3-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
25. 1,4-Dichlorobenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
26. Dichlorodifluoromethane	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
27. 1,1-Dichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
28. 1,2-Dichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
29. 1,1-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
30. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-002

Order: 87971
Page: 6 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B2	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Volatile Organic Compounds (VOCs) by GC/MS, 5035
Method: EPA 5035A/EPA 8260B

Aliquot ID: 87971-002A Matrix: Soil/Solid
Description: B2

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
31. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
32. 1,2-Dichloropropane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
33. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
34. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
35. Ethylbenzene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
36. Ethylene Dibromide	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
37. 2-Hexanone	U		µg/kg	2500	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
38. Isopropylbenzene	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
39. 4-Methyl-2-pentanone	U		µg/kg	2500	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
40. Methylene Chloride	U		µg/kg	110	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 41. 2-Methylnaphthalene	U		µg/kg	330	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
42. MTBE	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
43. Naphthalene	U		µg/kg	330	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
44. n-Propylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
45. Styrene	U		µg/kg	53	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
46. 1,1,1,2-Tetrachloroethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
47. 1,1,2,2-Tetrachloroethane	U		µg/kg	53	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
48. Tetrachloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
49. Toluene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
50. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
51. 1,1,1-Trichloroethane	U		µg/kg	53	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
52. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
53. Trichloroethene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
54. Trichlorofluoromethane	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
55. 1,2,3-Trichloropropane	U		µg/kg	110	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 56. 1,2,3-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
57. 1,2,4-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
58. 1,3,5-Trimethylbenzene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
59. Vinyl Chloride	U		µg/kg	40	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
60. m&p-Xylene	U		µg/kg	100	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
61. o-Xylene	U		µg/kg	50	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS
‡ 62. Xylenes	U		µg/kg	150	1.0	11/30/18	VJ18K30A	11/30/18	VJ18K30A	KSS

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Analytical Laboratory Report
Laboratory Project Number: 87971
Laboratory Sample Number: 87971-002

Order: 87971
Page: 7 of 8
Date: 12/05/18

Client Identification:	AKT Peerless Environ. Svcs, Inc. - Saginaw	Sample Description:	B2	Chain of Custody:	176260
Client Project Name:	137895	Sample No:		Collect Date:	11/27/18
Client Project No:	137895	Sample Matrix:	Soil/Solid	Collect Time:	09:45
Sample Comments:	Soil results have been calculated and reported on a dry weight basis unless otherwise noted.				
Definitions:	Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.				

Polynuclear Aromatic Hydrocarbons (PNAs)
Method: EPA 3546/EPA 8270E

Aliquot ID: 87971-002
Description: B2
Matrix: Soil/Solid

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		Init.
						P. Date	P. Batch	A. Date	A. Batch	
1. Acenaphthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
2. Acenaphthylene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
3. Anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
4. Benzo(a)anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
5. Benzo(a)pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
6. Benzo(b)fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
7. Benzo(ghi)perylene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
8. Benzo(k)fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
9. Chrysene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
10. Dibenzo(a,h)anthracene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
11. Fluoranthene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
12. Fluorene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
13. Indeno(1,2,3-cd)pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
14. 2-Methylnaphthalene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
15. Naphthalene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
16. Phenanthrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP
17. Pyrene	U		µg/kg	330	1.0	12/03/18	PS18L03C	12/04/18	S518L04A	GJP

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Definitions/ Qualifiers:

- A:** Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

- L+** : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.

Analysis Locations:

All analyses performed in Holt.



Accreditation Number(s):

T104704518-18-7 (TX)

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