



PCB-Impacted Soil Removal Summary Report

Former Nodular Industrial Land
Saginaw, Michigan

Revitalizing Auto Communities
Environmental Response Trust

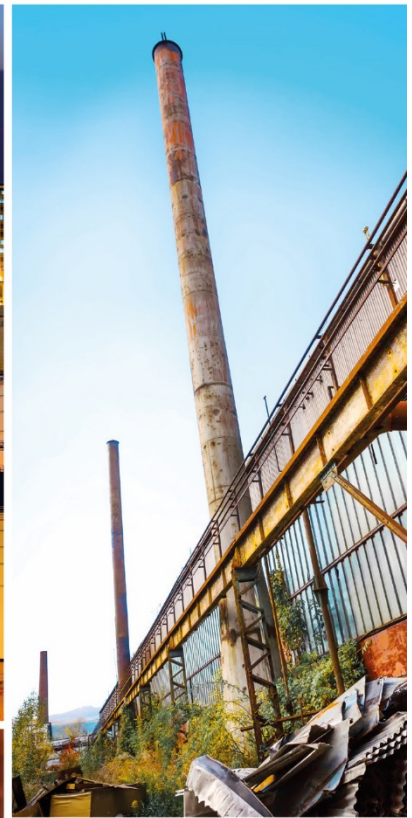




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1. Introduction

GHD Services, Inc. (GHD) has prepared this Polychlorinated Biphenyl (PCB) Impacted Soil Removal Summary Report (Report) on behalf of Revitalizing Auto Communities Environmental Response (RACER) Trust for the former Nodular Industrial Land (Site) in Saginaw, Michigan. The Site location is presented in Figure 1.1 and the Site Plan is presented in Figure 1.2. The Site is undergoing Resource Conservation and Recovery Act (RCRA) Corrective Action under Administrative Order on Consent RCRA-05-2011-0023.

An Interim Measures Work Plan for PCB-Impacted Soil Removal (Work Plan) was prepared in accordance with Title 40 of the Code of Federal Regulations, Part 761 (40 CFR 761) as a notification to the United States Environmental Protection Agency – Region 5 (U.S. EPA) of RACER's intent to implement a cleanup at the Site of PCB contamination under the risk based option set forth under 40 CFR §761.61(c). The Work Plan was submitted to U.S. EPA on July 10th, 2020 in accordance with the procedures set forth in 40 CFR §761.61 of TSCA. The purpose of the Work Plan was to remove soil within the top 12 inches with <50 parts per million (ppm) PCBs to reduce risk to benthic invertebrates. U.S. EPA approved the Work Plan in a letter dated September 2, 2020. A copy of the Work Plan documents and subsequent U.S. EPA approval are provided in Appendix A. This Report has been prepared for submittal to U.S. EPA in accordance with conditions specified in the U.S. EPA approved Work Plan.

2. Site Characterization

Initial Site characterization was completed prior to removal activities as presented in the Work Plan. A copy of the aforementioned document is presented in Appendix A.

A waste disposal characterization sample was collected on July 13, 2020 of the soil via hand auger and analyzed for TCLP VOCs, SVOCs, and RCRA metals. A copy of the waste characterization sample results are provided in Appendix B. This sample result and copies of the PCB-impacted soil characterization analytical results were provided to the off-Site disposal facility for profiling. The soil was found to be characteristically non-hazardous.

3. Project Cleanup Levels

The proposed cleanup level for elevated PCB-impacted soil from within a small area of IU G was <1 ppm PCBs in shallow soils (<1-foot below ground surface [ft bgs]). The highest PCB concentration in soil was 11.2 ppm.

4. Permitting

GHD obtained all applicable permits prior to implementing the work, including a State of Michigan Environment, Great Lakes & Energy (EGLE) Water Resources Division Permit (Part 303, Wetland Protection and Part 31, Water Resources Protection) and a City of Saginaw Floodplain permit.



Copies of the EGLE and City of Saginaw permits are provided in Appendix C.

A sediment erosion and sediment control permit was deemed unnecessary since work within the wetland was limited to less than an acre.

5. Soil Removal

Work Plan implementation occurred between September 15th and September 17th, 2020. A photographic log of PCB-impacted soil removal activities is presented in Appendix D.

All applicable health and safety, temporary facilities, traffic control, and site preparation measures were implemented in accordance with the Work Plan.

Prior to soil removal activities, the contractor, Job Site Services (JSS), constructed a competent working surface to access the excavation area using track mats and a surveyor demarcated the excavation area.

The 60 ft by 20 ft area was excavated to a depth of at least 1 ft bgs, resulting in a volume of 64.5 cubic yards of soil. No additives were necessary to stabilize the material to meet the paint filter test (i.e., no free liquids), which is required by the off-site disposal facility to accept the waste. As such, soils were directly loaded into haul trucks for disposal off-Site.

5.1 Soil Disposal

Prior to leaving the Site, the haul trucks were secured with tarps and outside surfaces cleaned to avoid tracking material off-Site. PCB-impacted soils were disposed at the following Subtitle D landfill:

Peoples Landfill – Birch Run (Waste Management)
4143 Rathburn Road, Birch Run, MI 48415
License No. 9480

Manifests were prepared in accordance with 40 CFR 761 Subpart K PCB Waste Disposal Records and Reports to accompany each load. A table summarizing the manifests and the associated tonnage disposed is summarized in Table 5.1. Copies of all waste manifests are available in Appendix E.

A total of four truckloads of material was disposed containing a total of 92.62 tons of PCB-impacted soil and associated work debris. A copy of the certificate of destruction from the disposal facility is provided in Appendix F.

5.2 Decontamination

Decontamination was conducted in accordance with 40 CFR 761.79(c)(2)(i). Following excavation activities, only the excavator bucket required decontamination. A confirmation wipe sample was collected and analyzed prior to mobilizing the bucket off-Site. The wipe sample results did not detect PCBs. A copy of analytical report for the wipe sample is provided in Appendix B.



5.3 Restoration

Following completion of soil removal, the excavation was backfilled with clean material from an on-Site source. A straw mat was placed over the area to aid re-establishment of wetland vegetation. Wetland seed was broadcast over the disturbed area including the surrounding area where soils were disturbed. Temporary fencing, signs, facilities, and equipment were removed, with any materials coming into contact with PCB-impacted soil being decontaminated or disposed off-Site.

6. Implementation Verification

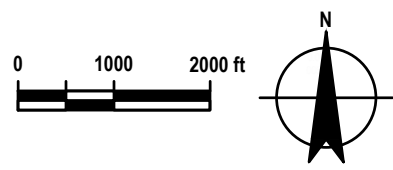
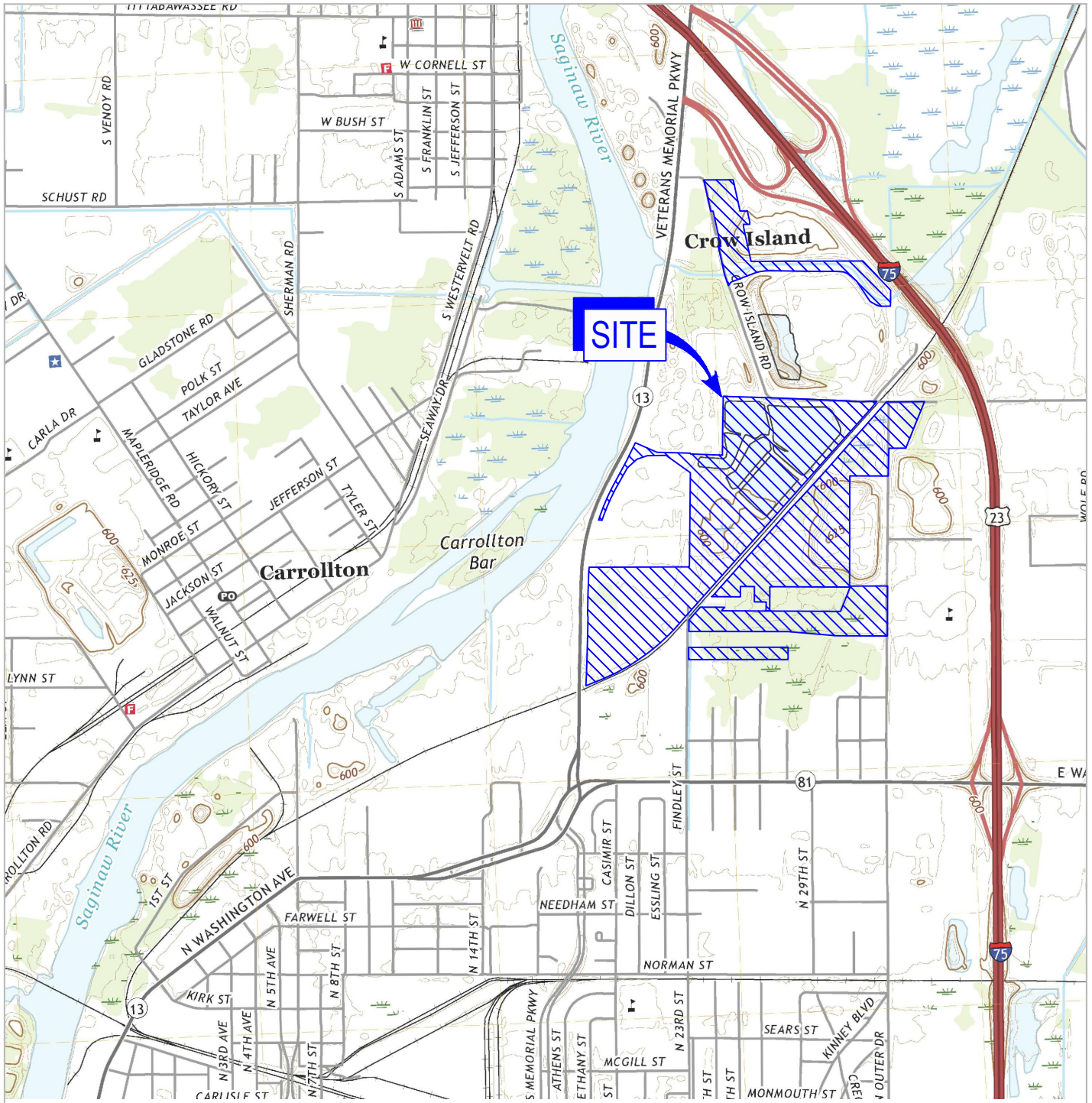
The horizontal and vertical limits of soil removal were confirmed by a surveyor using land survey equipment. The survey confirmed that horizontal extents of the excavation were consistent with the area identified in the Work Plan. The elevation data collected from the floor of the excavation was compared against the elevations immediately adjacent to the excavation area, which confirmed that a minimum of 1-foot of PCB-impacted soil was removed. Approximately 64.5 cubic yards of soil were excavated. A summary of the elevation measurements and the resulting volume calculation is presented in Appendix G.

7. Deed Notification and Restriction

With the extent of PCBs above 1 ppm and below 10 ppm defined, RACER proposes to place a notice on the property's deed identifying the presence of PCB remediation waste in this area pursuant to Part 761.61(a)(8)(i)(A) of Title 40 of the Code of Federal Regulations and place a deed restriction limiting use of this area to low occupancy as defined pursuant to 40 CFR Part 761.3. See Appendix H for an exhibit that has been drafted for the restrictive covenant which shows the PCB remediation waste and low occupancy area.

8. Recordkeeping

Records of the implementation of the Work Plan, including copies of analytical laboratory reports, data validation, and waste manifests will be maintained for a minimum of 5 years, in accordance with the retention requirements specified in 40 CFR §761.61(a)(9).

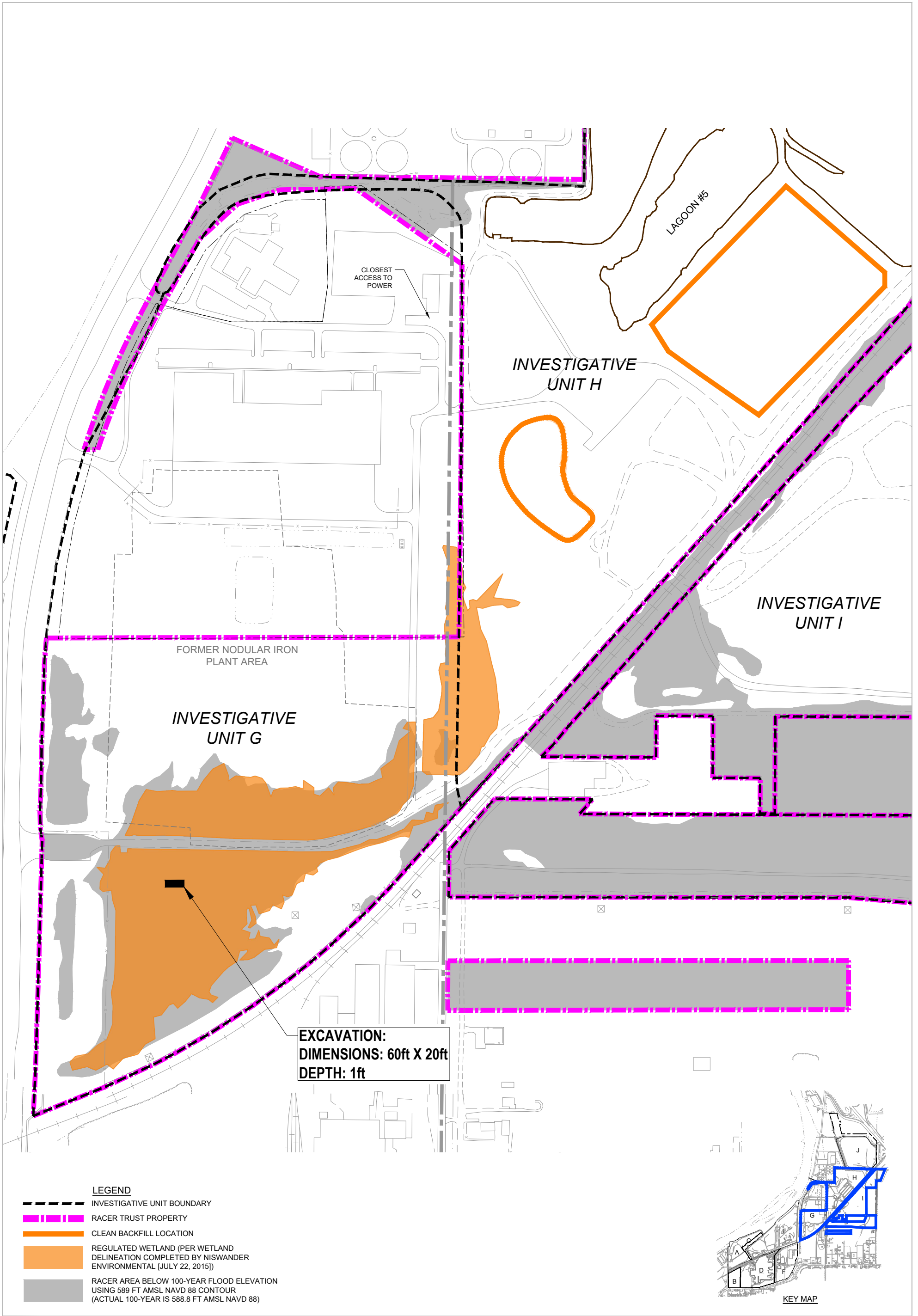


**RACER TRUST
SAGINAW, MICHIGAN**

Project No. 11208041
Date October 2020

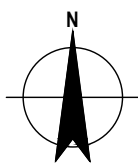
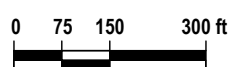
SITE LOCATION MAP

FIGURE 1.1



LEGEND

- INVESTIGATIVE UNIT BOUNDARY
- RACER TRUST PROPERTY
- CLEAN BACKFILL LOCATION
- REGULATED WETLAND (PER WETLAND DELINEATION COMPLETED BY NISWANDER ENVIRONMENTAL (JULY 22, 2015))
- RACER AREA BELOW 100-YEAR FLOOD ELEVATION USING 589 FT AMSL NAVD 88 CONTOUR (ACTUAL 100-YEAR IS 588.8 FT AMSL NAVD 88)



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Project No. 11208041
Date October 2020

SITE PLAN

FIGURE 1.2

Table 5.1

Soil Disposal Summary
RACER Nodular Industrial Land, Saginaw MI

Peoples Landfill
4143 E. Rathburn Birch Run, MI 48415
License No. 9480

Load #	Date	Landfill Receipt #	Manifest #	Quantity (Tons)	Certificate of Disposal
1	9/15/2020	391241	91520-1	19.54	Y
2	9/15/2020	391261	91520-2	21.86	Y
3	9/15/2020	391276	91520-3	24.74	Y
4	9/15/2020	391315	91520-4	26.48	Y
Total				92.62	

Appendices

Appendix A

Work Plan and Corresponding Approval

Appendix A.1

Interim Measures Work Plan for PCB-Impacted Soil Removal



Interim Measures Work Plan for PCB-Impacted Soil Removal

Former Nodular Industrial Land
Saginaw, Michigan

Revitalizing Auto Communities
Environmental Response Trust

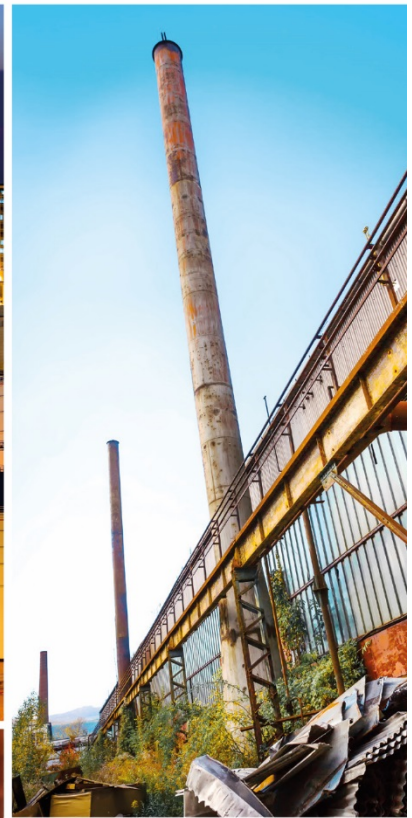
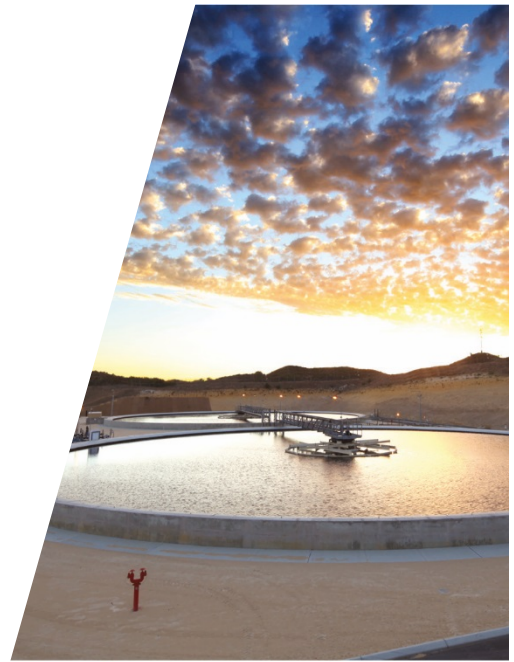




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- Appendix A Draft Exhibit for the Restrictive Covenant – Low-Level PCB Impacted Area
- Appendix B Written Certification



1. Introduction

This report presents the proposed interim measure work plan (Work Plan) to remove PCB-impacted soils from within a wetland area in Investigative Unit G (IU G) at Revitalizing Auto Communities Environmental Response Trust's (RACER) Former Nodular Industrial Lands (Site) in Saginaw, Michigan. The Site location is presented on Figure 1.1 and the Site Plan is presented on Figure 1.2. The Site is undergoing Resource Conservation and Recovery Act (RCRA) Corrective Action under Administrative Order on Consent RCRA-05-2011-0023.

This Work Plan was prepared in accordance with Title 40 of the Code of Federal Regulations, Part 761 (40 CFR 761) as a notification to EPA of RACER's intent to implement a cleanup of the Site related PCB contamination under the risk based option set forth under 40 CFR 761.61(c).

The remainder of the Work Plan provides the following information:

- Nature of contamination including kinds of materials contaminated
- Procedures used to sample contaminated and adjacent areas and a site map showing PCB concentrations measured in all pre-cleanup characterization samples
- Location and extent of the PCB-impacted area
- Remedial plan for PCB impacts at the site including approach, schedule, and disposal facilities
- Written Certification as required by 40 CFR 761.61(a)(3)(E)

It is RACER's intent that this interim measure be the final active remediation activity for the area and future activities related to this area be limited to deed restrictions to provide for proper institutional controls.

1.1 Background

IU G was formerly the location of the Nodular Iron Plant, but in the early 2000s, the plant was demolished. As part of the General Motors Corporation (GMC) bankruptcy, a portion of IU G (southern half) became the responsibility of RACER. RACER's portion of IU G is approximately 1,300 ft by 1,800 ft, for a total area of approximately 54 acres.

The Description of Current Conditions Report (EMCON, 1995), identified seven areas of interest (AOI) in the vicinity of the proposed excavation area. Two of the AOI's specifically identified the storage of PCBs (AOI-G.8 Former Virgin Oils Storage Pad and AOI-G.1 Former Nodular Iron Plant Oil House RCRA Hazardous Waste Drum Storage Area). These storage areas operated [between](#) 1965 to 1989 and 1966 to 1987, respectively. There is no recorded release of PCBs, however, we expect that the source of PCBs in soil is related to these areas.

More recently, sumps that dewatered the area were turned off in 2012 and as a result surface water drainage has tended to collect in this low lying area and in nearby low lying areas at the southern end of IU G. Over the last decade or so, this ponded water has produced hydric soils and promoted dominance by wetland vegetation. In 2015, a wetland survey of the area, as required by MDEQ to support a proposed development, determined that several small isolated wetlands had formed (Niswander 2015). The wetland survey delineated five isolated wetlands with areas of 0.23, 0.84,



1.08, 3.93, and 7.23 acres for a total of approximately 13.31 acres of wetland. These wetlands are isolated from each other due to access roads and driveways, which apparently preclude hydrologic connections among them. The wetlands may contain a foot or more of water during wetter seasons but tend to dry up completely during dry seasons.

The wetland which will be affected by this project is approximately 7.23 acres total, and is classified as an emergent/scrub-shrub wetland (Figure 2). The proposed excavation area is also within with the 100-year floodplain. The 100-year floodplain elevation is 589.7 feet above mean sea level (ft AMSL) (NGVD29), while the current ground surface elevation in the area of the proposed excavation is approximately 588.5 ft AMSL (NGVD29).

2. Investigation Summary

The following section presents previous investigations, sample results, and evaluations of the proposed excavation area.

2.1 RCRA Facility Investigation

As part of the RCRA Facility Investigation (RFI) conducted by GM prior to bankruptcy, four rounds of sampling were conducted in the proposed excavation area. The four rounds of sampling were conducted in September 1998, December 2001, December 2020, and March 2003. The early rounds of sampling were analyzed for a full list of parameters (SVOCs, VOCs, Metals, PCBs, and general chemistry) and later rounds only analyzed PCBs. The results of PCBs in soil ranged from non-detect to 13.4 mg/kg. The results were summarized in a Phase 1C RFI Report (CRA, March 2007) and are herein included in Figure 2.1. As part of the Phase 1C RFI Report an ecological risk assessment (ERA) was conducted by Exponent (2007) for the entire Nodular Site, including this portion of IU G. As described therein, in 2007, the vegetation in IU G was in the early stages of old field succession. In the original ERA, the biological habitat of IU G was considered too poor to warrant consideration (Exponent 2007). At that time, the very southern edge of IU G, just south of the Nodular Plant footprint, contained "a small, isolated, low-lying area that was periodically wet and supported some wetland vegetation (e.g., cattails, *Typha angustifolia*)" (Exponent 2007). However, the ERA stated that this low-lying area was nonetheless poor terrestrial habitat that did not support aquatic habitat. Thus, this area was not considered in the Exponent ERA.

2.2 2015 Additional Investigation to Support RCRA Corrective Action

In 2015, GHD conducted additional delineation of PCBs in soil to assist in developing and evaluating TSCA compliant remediation alternatives, including defining the limits of a possible PCB notice and restriction area. The work was completed in two phases. The scope of work for Phase 1 was summarized in Conestoga-Rovers & Associates Inc.'s (now GHD) February 27, 2015 letter to EPA, which was approved by email on March 2, 2015. The Phase 1 results were submitted to EPA on May 8, 2015. Based on the results of the Phase 1 work, the Phase 2 scope of work was proposed in a July 15, 2015 email to EPA which was approved by email on July 30, 2015. The Phase 2 results were submitted to EPA on February 15, 2017. With the additional investigation, PCB concentrations



in soil have been delineated to 1 mg/kg vertically and horizontally. The results are presented on Figure 2.1.

2.3 Wetland Ecological Evaluation

As noted above, the 2007 ERA did not consider potential ecological risks in this area because highly disturbed, abandoned industrial uplands have minimal ecological value. However, wetlands, even mediocre and low quality wetlands, are typically accorded more public protection than uplands. Consequently, since some of IU G has transitioned to wetlands, GHD on behalf of RACER, prepared a streamlined ERA (GHD, January 2019) to determine whether acute ecological impacts are likely.

The streamlined ERA concluded that significant ecological risks are unlikely to occur in the newly formed wetlands. In response, due to the potential for small ecological risks associated with PCBs in shallow soil, EPA requested that shallow soil be removed and disposed of off-Site.

3. Proposed PCB-Impacted Soil Removal

The proposed removal of PCB-impacted soil <50 ppm (highest PCB concentration in soil of 11.2 ppm) from a small area in IU G will consist of:

- Excavating the proposed area to a depth of 1-ft; stockpile PCB-impacted soil on a polyvinyl chloride (PVC) liner; stabilize, as necessary, to meet waste facility requirements (i.e., paint filter test); load; and transport for off-Site disposal.
- Backfill excavation with clean soil from on-Site.
- Restoration including broadcasting wetland seed over excavation area.

3.1 Scope of Work and Schedule

The following sections describe the interim measure activities related to on-Site work to be conducted under this Work Plan.

3.1.1 Preparation of Health and Safety Plan

To ensure that all on-Site work is completed safely, a Site-specific Health and Safety Plan (HASP) has already been prepared for the Site by GHD for GHD's personnel. The selected contractor(s) will prepare a HASP, including identifying a Site health and safety officer and job safety analysis (JSA) for its personnel for the soil removal activities. The hazard analysis will identify the potential hazards, evaluate the level of personal protective equipment that will be used during the cleanup activities, and describe the personnel decontamination procedures required to control any potential personal exposures during implementation of this Work Plan.

The contractor's HASP will be prepared and implemented consistent with Occupational Safety and Health Administration (OSHA) 29 CFR 1910.120.



3.1.2 Contractor Procurement

One or more qualified, OSHA 29 CFR 1910.120 trained contractors will be procured for removal, stockpiling, loading, transportation, and disposal of the soil. The division of responsibilities, if any, will be determined through a competitive bidding process.

3.1.3 Permitting

All applicable permits will be obtained before conducting the work. An EGLE Water Resources Division Permit (Part 303, Wetland Protection and Part 31, Water Resources Protection) has been obtained and a City of Saginaw Floodplain permit is in the process of being obtained.

3.1.4 Mobilization/Site Preparation

Upon mobilization of the contractor to the Site, the contractor will establish security controls and designate work zones (exclusion zone, contamination reduction zone, and support zone) to minimize tracking impacted soils. The contractor will install a temporary orange safety fence or caution tape, with warning signs, as necessary to define the work zones.

3.1.5 Soil Removal and Stockpiling Activities

Removal of the PCB-impacted soil <50 ppm (highest PCB concentration in soil of 11.2 ppm) will be completed as follows:

- Construct a competent working surface to access the excavation area (i.e., track mats, etc.).
- Install silt fencing around the proposed excavation area to minimize erosion potential.
- Removal of the PCB-impacted soil. The proposed excavation area (60 ft x 20 ft) will be marked out by a surveyor prior to initiating removal of PCB-impacted soils. The excavation will be to a depth of 1-ft.
- PCB-impacted soils removed may be stockpiled on a 15 millimeter (mm) PVC liner to allow the soils to be stabilized sufficiently to pass the paint filter test. Once the soil is sufficiently stabilized it will be loaded and transported to the disposal facility.

3.1.6 Proposed Sampling

3.1.6.1 Soil Characterization

One sample from the proposed excavation area will be collected via hand auger and analyzed for TCLP VOCs, TCLP SVOCs, TCLP RCRA Metals, and other parameters if required by the disposal facility to complete the waste profile.

3.1.6.2 Soil Verification Sampling

No soil verification sampling is proposed since ecological risks to benthic invertebrates are limited to the top 6-inches of soil and existing results adequately delineate the area.



3.1.7 Soil Transportation and off-Site Disposal

Once stabilized the soil impacted with PCBs < 50 ppm are proposed to be disposed at one of the following Subtitle D disposal facility:

Peoples Landfill – Birch Run (Waste Management)
4143 Rathburn Road, Birch Run, MI 48415
License No. 9480

Brent Run Landfill
8335 Vienna Road, Montrose, MI 48457
License No. 9508

Whitefeather Landfill (Republic Services)
2401 E Whitefeather Road, Pinconning, MI 48650
License No. 9578

If a disposal facility is proposed other than the facility listed above, details for the disposal facility will be provided to EPA for review and approval.

Prior to leaving the Site, the haul trucks and/or roll off boxes will be secured with tarps, and will be cleaned to avoid tracking material off-Site. Manifests will be prepared and will accompany the loads in accordance with 40 CFR 761 Subpart K PCB Waste Disposal Records and Reports.

3.1.8 Decontamination

Decontamination will be required for equipment that potentially comes in contact with PCB-impacted soil. This will include the excavator and may include roll-off boxes, haul truck beds, and small equipment.

Decontamination will be conducted in accordance with 40 CFR 761.79(c)(2) by swabbing surfaces that have contacted PCBs with a solvent or completing a double wash/rinse. Decontamination materials will be solidified and disposed of at Peoples Landfill.

3.1.9 Site Restoration

Once the horizontal and vertical limits of the excavation have been confirmed, the excavation will be backfilled with clean material from on-Site. Wetland seed will be broadcast over the disturbed area of the excavation. Other areas of the Site where soils were exposed will also be seeded to minimize erosion.

3.1.10 Demobilization

Once the work is completed, the contractor will remove any temporary fencing, temporary structures, equipment, and other materials and supplies brought onto the Site for the interim measure activities. Any materials coming in contact with PCB impacted soil will either be decontaminated in accordance with Section 3.1.8 or disposed of at People's Landfill.



4. Deed Restrictions

With the extent of PCBs above 1 mg/kg and below 10 mg/kg defined, RACER proposes to place a notice on the property's deed identifying the presence of PCB remediation waste in this area pursuant to Part 761.61(a)(8)(i)(A) of Title 40 of the Code of Federal Regulations (40 CFR 761.61(a)(8)(i)(A)) and place a deed restriction limiting use of this area to low occupancy as defined pursuant to 40 CFR Part 761.3. See Appendix A for an exhibit that has been drafted for the restrictive covenant which shows the PCB remediation waste and low occupancy area.

5. Reporting/Document Preparation

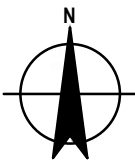
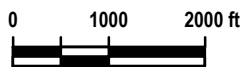
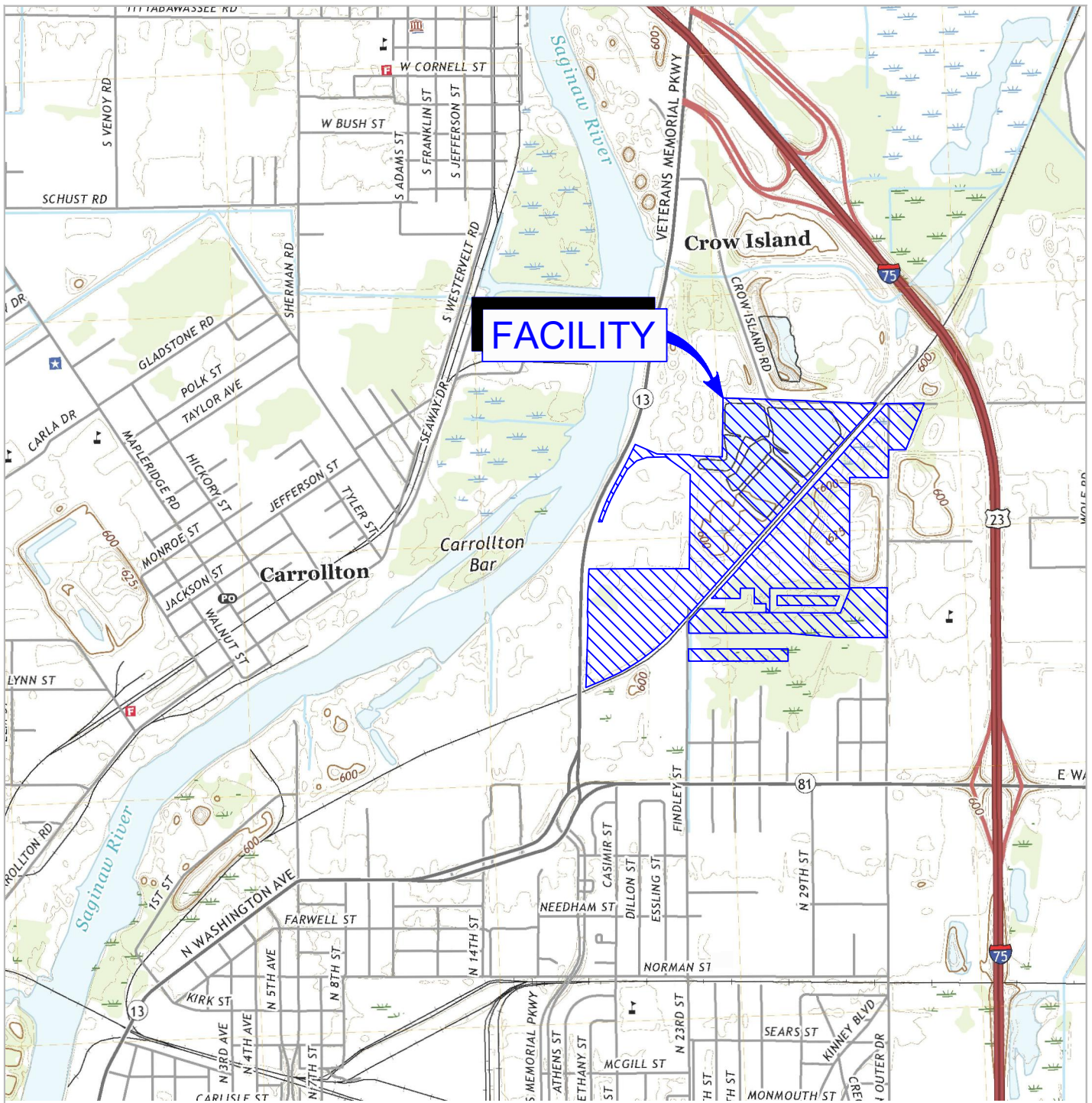
Upon the completion of this Work Plan, a completion report will be prepared to present a summary of the interim measure removal. The report will include a summary of the work completed, a summary of field observations, quantities of materials removed, and certificates of disposal.

6. Certification

The certification statement required under 40 CFR 761.61(a)(3)(E) is provided in Appendix B.

7. Schedule

A contractor is being procured to complete the work and applicable permits are being obtained. The work will be initiated as soon as practicable but during a time of the year with suitable, dry weather conditions.

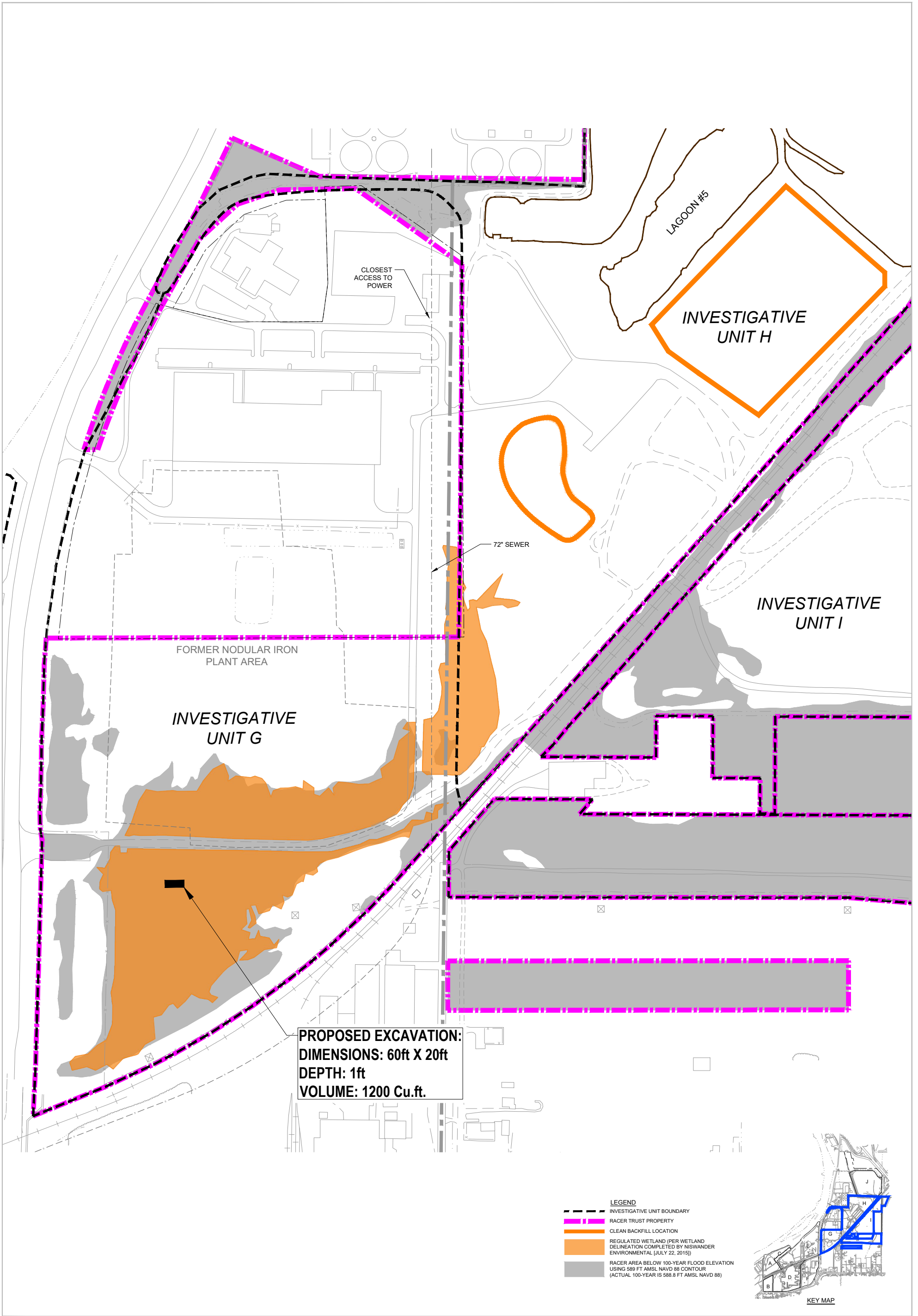


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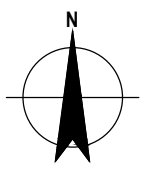
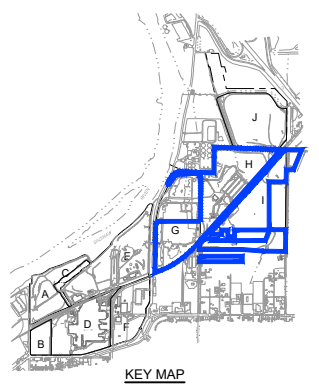
SITE LOCATION MAP

FIGURE 1.1



PROPOSED EXCAVATION:
DIMENSIONS: 60ft X 20ft
DEPTH: 1ft
VOLUME: 1200 Cu.ft.

- LEGEND**
- INVESTIGATIVE UNIT BOUNDARY
 - RACER TRUST PROPERTY
 - CLEAN BACKFILL LOCATION
 - REGULATED WETLAND (PER WETLAND DELINEATION COMPLETED BY NISWANDER ENVIRONMENTAL (JULY 22, 2015))
 - RACER AREA BELOW 100-YEAR FLOOD ELEVATION USING 589 FT AMSL NAVD 88 CONTOUR (ACTUAL 100-YEAR IS 588.8 FT AMSL NAVD 88)

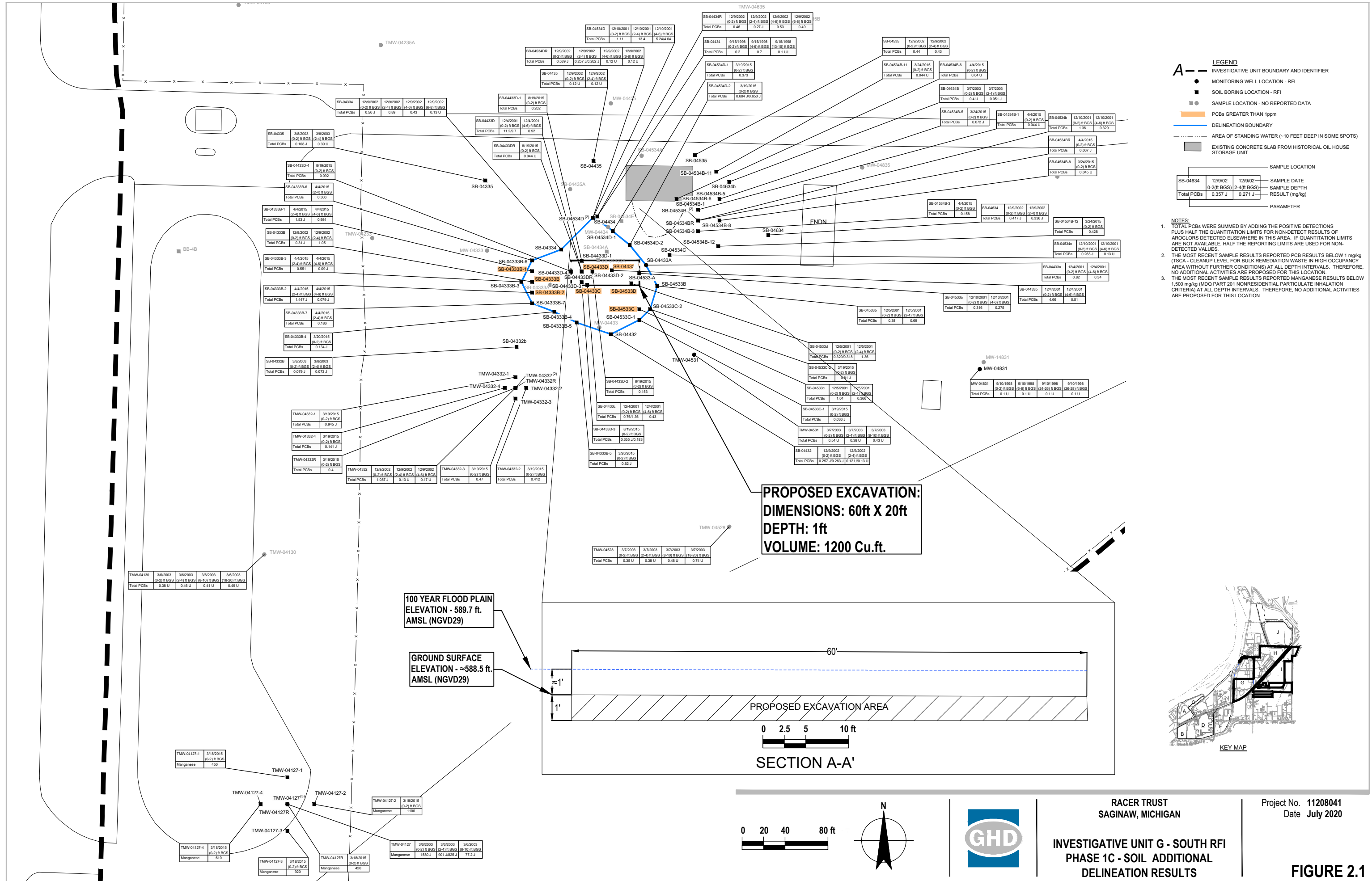


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Project No. **11208041**
 Date **July 2020**

SITE PLAN

FIGURE 1.2



RACER TRUST
 SAGINAW, MICHIGAN

Project No. 11208041
 Date July 2020

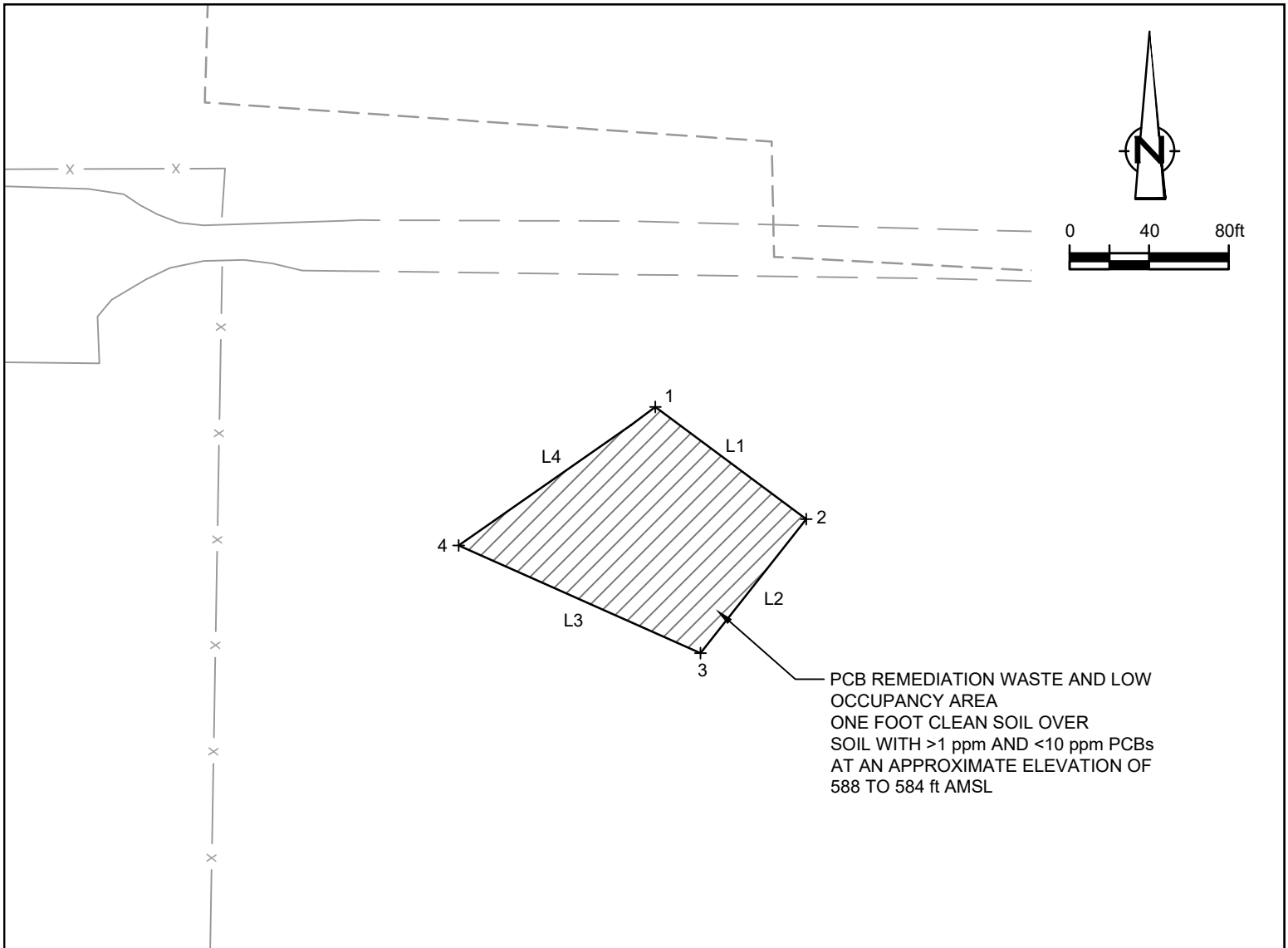
GHD

**INVESTIGATIVE UNIT G - SOUTH RFI
 PHASE 1C - SOIL ADDITIONAL
 DELINEATION RESULTS**

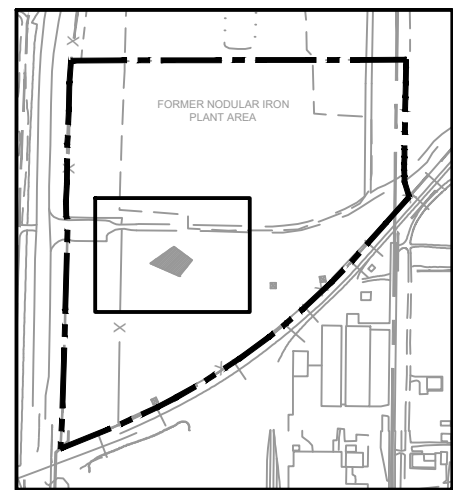
FIGURE 2.1

Appendices

Appendix A
Draft Exhibit for the Restrictive Covenant –
Low Level PCB Impacted Area



1	X = 13244588.2394, Y = 713414.4580
L1	S 53d22'31" E @ 94.35
2	X = 13244663.9620, Y = 713358.1708
L2	S 38d18'40" W @ 85.66
3	X = 13244610.8616, Y = 713290.9608
L3	N 66d0'7" W @ 132.78
4	X = 13244489.5565, Y = 713344.9646
L4	N 54d50'47" E @ 120.70



KEY MAP
 SCALE: 1" = 800'

- LEGEND**
- PCB REMEDIATION WASTE/LOW OCCUPANCY AREA AS DEFINED IN 40 CFR 761.61
 - APPROXIMATE PROPERTY BOUNDARY



Exhibit

NOTE:
 MICHIGAN SOUTH STATE PLANE COORDINATE SYSTEM
 NAD 83, IN U.S. INTERNATIONAL FEET.

Appendix B

Written Certification



As required by 40 CFR761.61(a)(3)(i)(E), I certify that all sampling plans, sample collection procedures, sample preparation procedures, extraction procedures, and instrumental/chemical analysis procedures used to assess or characterize the PCB contamination at the Site, are herein provided on CD for the RACER Former Nodular Industrial Land Site at 2100 Veterans Memorial Parkway, Saginaw, Michigan, for U.S. EPA inspection.

David Favre

July 10, 2020

Owner Representative

Date

The following documents are included on this CD to comply with the certification that is required by 40 CFR Part 761.61,

- RFI Work Plan – Volume I (EMCON, June 1998)
- RFI Work Plan – Volume II (EMCON, June 1998)
- RFI – Phase 1C Report – Revised (CRA, March 2007)
- Additional Delineation of PCB and Manganese Impacts - Letter (CRA, February 2015)
- Additional Delineation of PCB and Manganese Impacts – Memorandum (CRA, May 2015)
- Additional Delineation of PCB and Manganese Impacts – Memorandum (GHD, February 2017)
- Ecological Screening Assessment for Isolated Wetlands Recently Formed in IU G (GHD, January 2019)



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

John-Eric Pardys
john-eric.pardys@ghd.com
519.340.4316

www.ghd.com

Appendix A.2
Interim Measures Work Plan –
40 CFR 761.61(c) Approval



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5

77 WEST JACKSON BOULEVARD
CHICAGO, IL 60604-3590

REPLY TO THE ATTENTION OF: LU-16J

Mr. Grant Trigger
Michigan Cleanup Manager
RACER Trust
1505 Woodward Avenue, Suite 200
Detroit, MI 48226

RE: Interim Measures Work Plan - 40 CFR §761.61(c) Approval
Investigative Unit G PCB-Impacted Soil Removal
RACER Former Nodular Industrial Lands, Saginaw, Michigan

Dear Mr. Trigger:

On July 9th, 2020, GHD, on behalf of the Revitalizing Auto Communities Environmental Response Trust (RACER), requested that the U.S. Environmental Protection Agency Regional Administrator approve its July 9th, 2020 Interim Measures Work Plan (IMWP), including the proposed disposal under the risk-based disposal provisions of the polychlorinated biphenyl (PCB) regulations at 40 Code of Federal Regulations (CFR) §761.61(c). The IMWP included a written certification consistent with 40 CFR §761.61 (a)(3)(E). Under the Toxic Substances Control Act (TSCA) delegation 12-5, the Regional Administrator has redelegated his authority to approve risk-based disposal of PCB remediation waste to the Director of the Land, Chemicals and Redevelopment Division.

The IMWP addresses the excavation, sampling and off-site disposal activities of soils contaminated with PCBs at Investigative Unit (IU) G, the former Nodular Iron Plant at the RACER property located at 2100 Veterans Memorial Parkway, Saginaw, Michigan. RACER is conducting the PCB cleanup and corrective action measures under a Resource Conservation and Recovery Act (RCRA) Administrative Order on Consent (RCRA-05-2011-0023).

RACER previously performed an ecological risk assessment at IU G, as the PCB-impacted area within IU G is currently inundated and has been determined to be a wetland by the State of Michigan. Because the activities may include sediments that are not eligible for the self-implementing procedures in 40 C.F.R. § 761.61(a), EPA is reviewing the proposal for sampling, cleanup, and disposal of PCB remediation waste under the risk-based disposal approval provisions of 40 CFR § 761.61(c). EPA has determined that the proposed cleanup measures, and the nature of any post-removal, residual PCB concentrations will not present unreasonable risk of

injury to ecological health or the environment and is approving RACER's cleanup and disposal of these PCB Remediation Wastes under 40 CFR § 761.61(c) with the following conditions:

- 1) RACER will remove IU G PCB impacted soils for off-site disposal in accordance with Sections 3.1.5 and 3.1.7, Figures 1.2 and 2.1 of the IMWP.
- 2) PCB remediation waste, previously characterized and shown to be at concentrations of < 50 mg/kg PCB, will be disposed of off-site based on in-situ concentrations in accordance with 40 CFR § 761.61(a)(5)(i)(B)(2)(ii) and (a)(5)(v)(A).
- 3) The excavated area will be backfilled with clean material and re-seeded per Section 3.1.9 of the IWMP.

RACER is responsible for ensuring continued compliance with this approval, all applicable provisions of TSCA and the federal PCB regulations. Any departure from the conditions set forth in this letter or the sections of the July 9, 2020 IWMP, referenced above, must receive prior written authorization from the Remediation Branch of the Land, Chemicals, and Redevelopment Division. This Approval does not constitute a determination by EPA that the transporters or disposal facilities selected by RACER are authorized to conduct the activities set forth in the IMWP. RACER is responsible for ensuring that it has selected transporters and disposal facilities that are authorized to conduct these activities in accordance with all applicable federal, state, and local statutes and regulations. This letter does not relieve RACER from compliance with any other federal, state or local regulation and does not preclude EPA from initiating any enforcement action, including an action seeking civil penalties for any violation of federal regulations.

If you have any questions regarding this matter, please contact Zachary Sasnow of my staff at (312) 886-0258.

Sincerely,

 9/2/2020

Edward Nam
Director
Land, Chemicals and Redevelopment Division

Appendix B

Analytical Laboratory Reports

Appendix B.1

Waste Characterization

ANALYTICAL REPORT

Eurofins TestAmerica, Canton
4101 Shuffel Street NW
North Canton, OH 44720
Tel: (330)497-9396

Laboratory Job ID: 240-133601-1

Client Project/Site: 11208041, RACER Nodular Iron

For:

GHD Services Inc.
26850 Haggerty Rd.
Farmington Hills, Michigan 48331

Attn: Ms. Ruth Mickle



*Authorized for release by:
7/28/2020 7:06:12 AM*

Denise Heckler, Project Manager II
(330)966-9477
Denise.Heckler@Eurofinset.com

LINKS

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results through
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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Case Narrative

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Job ID: 240-133601-1

Laboratory: Eurofins TestAmerica, Canton

Narrative

Job Narrative 240-133601-1

Comments

No additional comments.

Receipt

The sample was received on 7/17/2020 10:00 AM; the sample arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 3.9° C.

GC/MS VOA

Method 8260B: Batch 240-443994 is reported without a matrix spike/matrix spike duplicate (MS/MSD), because the MS/MSD parent sample was reported in another batch. The MS/MSD result does not have immediate bearing on any samples except for the actual sample spiked. The associated laboratory control sample (LCS) met acceptance criteria and provides long-term precision and accuracy for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC/MS Semi VOA

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Metals

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.



Definitions/Glossary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC/MS Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Sample Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
240-133601-1	S-58507-071320-SSH-0520	Solid	07/13/20 11:15	07/17/20 10:00	

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Client Sample ID: S-58507-071320-SSH-0520

Lab Sample ID: 240-133601-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.0055	J	0.050	0.0041	mg/L	1		6010B	TCLP
Barium	0.17	J B	0.50	0.0013	mg/L	1		6010B	TCLP
Cadmium	0.00074	J	0.050	0.00020	mg/L	1		6010B	TCLP
Chromium	0.011	J B	0.050	0.00063	mg/L	1		6010B	TCLP
Lead	0.0068	J	0.050	0.0028	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Canton



Method Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL CAN
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	TAL CAN
6010B	Metals (ICP)	SW846	TAL CAN
7470A	Mercury (CVAA)	SW846	TAL CAN
1311	TCLP Extraction	SW846	TAL CAN
3010A	Preparation, Total Metals	SW846	TAL CAN
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL CAN
5030B	Purge and Trap	SW846	TAL CAN
7470A	Preparation, Mercury	SW846	TAL CAN

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Client Sample Results

Client: GHD Services Inc.
 Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 8260B - Volatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-58507-071320-SSH-0520

Lab Sample ID: 240-133601-1

Date Collected: 07/13/20 11:15

Matrix: Solid

Date Received: 07/17/20 10:00

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.00019	mg/L	-		07/24/20 00:33	1
1,2-Dichloroethane	0.025	U	0.025	0.00021	mg/L	-		07/24/20 00:33	1
2-Butanone (MEK)	0.25	U	0.25	0.0012	mg/L	-		07/24/20 00:33	1
Benzene	0.025	U	0.025	0.00013	mg/L	-		07/24/20 00:33	1
Carbon tetrachloride	0.025	U	0.025	0.00026	mg/L	-		07/24/20 00:33	1
Chlorobenzene	0.025	U	0.025	0.00014	mg/L	-		07/24/20 00:33	1
Chloroform	0.025	U	0.025	0.00013	mg/L	-		07/24/20 00:33	1
Tetrachloroethene	0.025	U	0.025	0.00015	mg/L	-		07/24/20 00:33	1
Trichloroethene	0.025	U	0.025	0.00010	mg/L	-		07/24/20 00:33	1
Vinyl chloride	0.025	U	0.025	0.00020	mg/L	-		07/24/20 00:33	1
<hr/>									
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	95		74 - 124					07/24/20 00:33	1
4-Bromofluorobenzene (Surr)	93		77 - 120					07/24/20 00:33	1
Toluene-d8 (Surr)	100		80 - 120					07/24/20 00:33	1
Dibromofluoromethane (Surr)	99		80 - 120					07/24/20 00:33	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) - TCLP

Client Sample ID: S-58507-071320-SSH-0520

Date Collected: 07/13/20 11:15

Date Received: 07/17/20 10:00

Lab Sample ID: 240-133601-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00033	mg/L		07/22/20 09:45	07/24/20 21:49	1
2,4,5-Trichlorophenol	0.0040	U	0.0040	0.0020	mg/L		07/22/20 09:45	07/24/20 21:49	1
2,4,6-Trichlorophenol	0.0040	U	0.0040	0.0018	mg/L		07/22/20 09:45	07/24/20 21:49	1
2,4-Dinitrotoluene	0.0040	U	0.0040	0.0021	mg/L		07/22/20 09:45	07/24/20 21:49	1
Hexachlorobenzene	0.00080	U	0.00080	0.00016	mg/L		07/22/20 09:45	07/24/20 21:49	1
Hexachlorobutadiene	0.0040	U	0.0040	0.00054	mg/L		07/22/20 09:45	07/24/20 21:49	1
Hexachloroethane	0.0040	U	0.0040	0.00040	mg/L		07/22/20 09:45	07/24/20 21:49	1
3 & 4 Methylphenol	0.0040	U	0.0040	0.00019	mg/L		07/22/20 09:45	07/24/20 21:49	1
2-Methylphenol	0.0040	U	0.0040	0.00021	mg/L		07/22/20 09:45	07/24/20 21:49	1
Nitrobenzene	0.0040	U	0.0040	0.00051	mg/L		07/22/20 09:45	07/24/20 21:49	1
Pentachlorophenol	0.016	U	0.016	0.0031	mg/L		07/22/20 09:45	07/24/20 21:49	1
Pyridine	0.0040	U	0.0040	0.00036	mg/L		07/22/20 09:45	07/24/20 21:49	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl (Surr)	68		39 - 120				07/22/20 09:45	07/24/20 21:49	1
2-Fluorophenol (Surr)	60		10 - 120				07/22/20 09:45	07/24/20 21:49	1
2,4,6-Tribromophenol (Surr)	71		33 - 120				07/22/20 09:45	07/24/20 21:49	1
Nitrobenzene-d5 (Surr)	60		33 - 120				07/22/20 09:45	07/24/20 21:49	1
Phenol-d5 (Surr)	52		10 - 120				07/22/20 09:45	07/24/20 21:49	1
Terphenyl-d14 (Surr)	86		36 - 122				07/22/20 09:45	07/24/20 21:49	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 6010B - Metals (ICP) - TCLP

Client Sample ID: S-58507-071320-SSH-0520

Date Collected: 07/13/20 11:15

Date Received: 07/17/20 10:00

Lab Sample ID: 240-133601-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	0.0055	J	0.050	0.0041	mg/L		07/22/20 14:00	07/23/20 21:52	1
Barium	0.17	J B	0.50	0.0013	mg/L		07/22/20 14:00	07/23/20 21:52	1
Cadmium	0.00074	J	0.050	0.00020	mg/L		07/22/20 14:00	07/23/20 21:52	1
Chromium	0.011	J B	0.050	0.00063	mg/L		07/22/20 14:00	07/23/20 21:52	1
Lead	0.0068	J	0.050	0.0028	mg/L		07/22/20 14:00	07/23/20 21:52	1
Selenium	0.050	U	0.050	0.0060	mg/L		07/22/20 14:00	07/23/20 21:52	1
Silver	0.050	U	0.050	0.00062	mg/L		07/22/20 14:00	07/23/20 21:52	1

Client Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 7470A - Mercury (CVAA) - TCLP

Client Sample ID: S-58507-071320-SSH-0520

Date Collected: 07/13/20 11:15

Date Received: 07/17/20 10:00

Lab Sample ID: 240-133601-1

Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00013	mg/L		07/22/20 15:00	07/23/20 17:18	1

- 1
- 2
- 3
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- 10
- 11
- 12
- 13
- 14

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

GC/MS VOA

Leach Batch: 443785

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	1311	
LB 240-443785/1-A MB	Method Blank	TCLP	Solid	1311	

Analysis Batch: 443994

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	8260B	443785
LB 240-443785/1-A MB	Method Blank	TCLP	Solid	8260B	443785
LCS 240-443994/29	Lab Control Sample	Total/NA	Solid	8260B	

GC/MS Semi VOA

Leach Batch: 443585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	1311	

Prep Batch: 443713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	3510C	443585
MB 240-443713/12-A	Method Blank	Total/NA	Solid	3510C	
LCS 240-443713/13-A	Lab Control Sample	Total/NA	Solid	3510C	

Analysis Batch: 444158

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	8270C	443713
MB 240-443713/12-A	Method Blank	Total/NA	Solid	8270C	443713

Analysis Batch: 444408

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 240-443713/13-A	Lab Control Sample	Total/NA	Solid	8270C	443713

Metals

Leach Batch: 443585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	1311	
LB 240-443585/1-B	Method Blank	TCLP	Solid	1311	
LB 240-443585/1-C	Method Blank	TCLP	Solid	1311	

Prep Batch: 443693

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	3010A	443585
LB 240-443585/1-B	Method Blank	TCLP	Solid	3010A	443585
MB 240-443693/2-A	Method Blank	Total/NA	Solid	3010A	
LCS 240-443693/3-A	Lab Control Sample	Total/NA	Solid	3010A	

Prep Batch: 443695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	7470A	443585
LB 240-443585/1-C	Method Blank	TCLP	Solid	7470A	443585
MB 240-443695/2-A	Method Blank	Total/NA	Solid	7470A	
LCS 240-443695/3-A	Lab Control Sample	Total/NA	Solid	7470A	

Eurofins TestAmerica, Canton

QC Association Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Metals

Analysis Batch: 443964

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	6010B	443693
LB 240-443585/1-B	Method Blank	TCLP	Solid	6010B	443693
MB 240-443693/2-A	Method Blank	Total/NA	Solid	6010B	443693
LCS 240-443693/3-A	Lab Control Sample	Total/NA	Solid	6010B	443693

Analysis Batch: 444127

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
240-133601-1	S-58507-071320-SSH-0520	TCLP	Solid	7470A	443695
LB 240-443585/1-C	Method Blank	TCLP	Solid	7470A	443695
MB 240-443695/2-A	Method Blank	Total/NA	Solid	7470A	443695
LCS 240-443695/3-A	Lab Control Sample	Total/NA	Solid	7470A	443695

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: LCS 240-443994/29
Matrix: Solid
Analysis Batch: 443994

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	1.00	1.04		mg/L		104	80 - 128
1,2-Dichloroethane	1.00	0.904		mg/L		90	67 - 125
2-Butanone (MEK)	2.00	2.09		mg/L		105	55 - 127
Benzene	1.00	1.16		mg/L		116	80 - 122
Carbon tetrachloride	1.00	0.841		mg/L		84	67 - 126
Chlorobenzene	1.00	1.01		mg/L		101	80 - 120
Chloroform	1.00	1.05		mg/L		105	80 - 120
Tetrachloroethene	1.00	0.831		mg/L		83	76 - 120
Trichloroethene	1.00	0.956		mg/L		96	77 - 120
Vinyl chloride	1.00	1.10		mg/L		110	60 - 134

Surrogate	LCS %Recovery	LCS Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	87		74 - 124
4-Bromofluorobenzene (Surr)	105		77 - 120
Toluene-d8 (Surr)	104		80 - 120
Dibromofluoromethane (Surr)	93		80 - 120

Lab Sample ID: LB 240-443785/1-A MB
Matrix: Solid
Analysis Batch: 443994

Client Sample ID: Method Blank
Prep Type: TCLP

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	0.025	U	0.025	0.00019	mg/L			07/23/20 21:10	1
1,2-Dichloroethane	0.025	U	0.025	0.00021	mg/L			07/23/20 21:10	1
2-Butanone (MEK)	0.25	U	0.25	0.0012	mg/L			07/23/20 21:10	1
Benzene	0.025	U	0.025	0.00013	mg/L			07/23/20 21:10	1
Carbon tetrachloride	0.025	U	0.025	0.00026	mg/L			07/23/20 21:10	1
Chlorobenzene	0.025	U	0.025	0.00014	mg/L			07/23/20 21:10	1
Chloroform	0.025	U	0.025	0.00013	mg/L			07/23/20 21:10	1
Tetrachloroethene	0.025	U	0.025	0.00015	mg/L			07/23/20 21:10	1
Trichloroethene	0.025	U	0.025	0.00010	mg/L			07/23/20 21:10	1
Vinyl chloride	0.025	U	0.025	0.00020	mg/L			07/23/20 21:10	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	93		74 - 124		07/23/20 21:10	1
4-Bromofluorobenzene (Surr)	94		77 - 120		07/23/20 21:10	1
Toluene-d8 (Surr)	99		80 - 120		07/23/20 21:10	1
Dibromofluoromethane (Surr)	94		80 - 120		07/23/20 21:10	1

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 240-443713/12-A
Matrix: Solid
Analysis Batch: 444158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	0.0040	U	0.0040	0.00033	mg/L		07/22/20 09:45	07/24/20 14:33	1
2,4,5-Trichlorophenol	0.0040	U	0.0040	0.0020	mg/L		07/22/20 09:45	07/24/20 14:33	1

Eurofins TestAmerica, Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 240-443713/12-A
Matrix: Solid
Analysis Batch: 444158

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443713

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
2,4,6-Trichlorophenol	0.0040	U	0.0040	0.0018	mg/L		07/22/20 09:45	07/24/20 14:33	1
2,4-Dinitrotoluene	0.0040	U	0.0040	0.0021	mg/L		07/22/20 09:45	07/24/20 14:33	1
Hexachlorobenzene	0.00080	U	0.00080	0.00016	mg/L		07/22/20 09:45	07/24/20 14:33	1
Hexachlorobutadiene	0.0040	U	0.0040	0.00054	mg/L		07/22/20 09:45	07/24/20 14:33	1
Hexachloroethane	0.0040	U	0.0040	0.00040	mg/L		07/22/20 09:45	07/24/20 14:33	1
3 & 4 Methylphenol	0.0040	U	0.0040	0.00019	mg/L		07/22/20 09:45	07/24/20 14:33	1
2-Methylphenol	0.0040	U	0.0040	0.00021	mg/L		07/22/20 09:45	07/24/20 14:33	1
Nitrobenzene	0.0040	U	0.0040	0.00051	mg/L		07/22/20 09:45	07/24/20 14:33	1
Pentachlorophenol	0.016	U	0.016	0.0031	mg/L		07/22/20 09:45	07/24/20 14:33	1
Pyridine	0.0040	U	0.0040	0.00036	mg/L		07/22/20 09:45	07/24/20 14:33	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
2-Fluorobiphenyl (Surr)	79		39 - 120	07/22/20 09:45	07/24/20 14:33	1
2-Fluorophenol (Surr)	71		10 - 120	07/22/20 09:45	07/24/20 14:33	1
2,4,6-Tribromophenol (Surr)	84		33 - 120	07/22/20 09:45	07/24/20 14:33	1
Nitrobenzene-d5 (Surr)	71		33 - 120	07/22/20 09:45	07/24/20 14:33	1
Phenol-d5 (Surr)	63		10 - 120	07/22/20 09:45	07/24/20 14:33	1
Terphenyl-d14 (Surr)	95		36 - 122	07/22/20 09:45	07/24/20 14:33	1

Lab Sample ID: LCS 240-443713/13-A
Matrix: Solid
Analysis Batch: 444408

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443713

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	Limits
		Result	Qualifier				
1,4-Dichlorobenzene	0.0800	0.0543		mg/L		68	46 - 120
2,4,5-Trichlorophenol	0.0800	0.0586		mg/L		73	61 - 120
2,4,6-Trichlorophenol	0.0800	0.0590		mg/L		74	63 - 120
2,4-Dinitrotoluene	0.0800	0.0580		mg/L		73	66 - 120
Hexachlorobenzene	0.0800	0.0628		mg/L		79	57 - 120
Hexachlorobutadiene	0.0800	0.0527		mg/L		66	39 - 120
Hexachloroethane	0.0800	0.0571		mg/L		71	40 - 120
3 & 4 Methylphenol	0.0800	0.0589		mg/L		74	45 - 120
2-Methylphenol	0.0800	0.0561		mg/L		70	50 - 120
Nitrobenzene	0.0800	0.0566		mg/L		71	56 - 120
Pentachlorophenol	0.160	0.102		mg/L		64	32 - 120
Pyridine	0.160	0.0778		mg/L		49	18 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl (Surr)	68		39 - 120
2-Fluorophenol (Surr)	64		10 - 120
2,4,6-Tribromophenol (Surr)	81		33 - 120
Nitrobenzene-d5 (Surr)	70		33 - 120
Phenol-d5 (Surr)	57		10 - 120
Terphenyl-d14 (Surr)	84		36 - 122

Eurofins TestAmerica, Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 240-443693/2-A
Matrix: Solid
Analysis Batch: 443964

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443693

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.050	U	0.050	0.0041	mg/L		07/22/20 14:00	07/23/20 20:48	1
Barium	0.50	U	0.50	0.0013	mg/L		07/22/20 14:00	07/23/20 20:48	1
Cadmium	0.050	U	0.050	0.00020	mg/L		07/22/20 14:00	07/23/20 20:48	1
Chromium	0.050	U	0.050	0.00063	mg/L		07/22/20 14:00	07/23/20 20:48	1
Lead	0.050	U	0.050	0.0028	mg/L		07/22/20 14:00	07/23/20 20:48	1
Selenium	0.050	U	0.050	0.0060	mg/L		07/22/20 14:00	07/23/20 20:48	1
Silver	0.050	U	0.050	0.00062	mg/L		07/22/20 14:00	07/23/20 20:48	1

Lab Sample ID: LCS 240-443693/3-A
Matrix: Solid
Analysis Batch: 443964

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443693

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Barium	2.00	1.94		mg/L		97	50 - 150
Cadmium	1.00	1.01		mg/L		101	50 - 150
Chromium	1.00	0.994		mg/L		99	50 - 150
Lead	1.00	0.921		mg/L		92	50 - 150
Selenium	2.00	2.05		mg/L		102	50 - 150
Silver	0.100	0.103		mg/L		103	50 - 150

Lab Sample ID: LB 240-443585/1-B
Matrix: Solid
Analysis Batch: 443964

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 443693

Analyte	LB LB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Arsenic	0.050	U	0.050	0.0041	mg/L		07/22/20 14:00	07/23/20 20:44	1
Barium	0.00248	J	0.50	0.0013	mg/L		07/22/20 14:00	07/23/20 20:44	1
Cadmium	0.050	U	0.050	0.00020	mg/L		07/22/20 14:00	07/23/20 20:44	1
Chromium	0.00138	J	0.050	0.00063	mg/L		07/22/20 14:00	07/23/20 20:44	1
Lead	0.050	U	0.050	0.0028	mg/L		07/22/20 14:00	07/23/20 20:44	1
Selenium	0.050	U	0.050	0.0060	mg/L		07/22/20 14:00	07/23/20 20:44	1
Silver	0.050	U	0.050	0.00062	mg/L		07/22/20 14:00	07/23/20 20:44	1

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 240-443695/2-A
Matrix: Solid
Analysis Batch: 444127

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 443695

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Mercury	0.0020	U	0.0020	0.00013	mg/L		07/22/20 15:00	07/23/20 16:46	1

Lab Sample ID: LCS 240-443695/3-A
Matrix: Solid
Analysis Batch: 444127

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 443695

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits

Eurofins TestAmerica, Canton

QC Sample Results

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LB 240-443585/1-C
Matrix: Solid
Analysis Batch: 444127

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 443695

Analyte	LB Result	LB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	0.0020	U	0.0020	0.00013	mg/L		07/22/20 15:00	07/23/20 16:44	1

- 1
- 2
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- 13
- 14

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (74-124)	BFB (77-120)	TOL (80-120)	DBFM (80-120)
LCS 240-443994/29	Lab Control Sample	87	105	104	93

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DCA (74-124)	BFB (77-120)	TOL (80-120)	DBFM (80-120)
240-133601-1	S-58507-071320-SSH-0520	95	93	100	99
LB 240-443785/1-A MB	Method Blank	93	94	99	94

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
TOL = Toluene-d8 (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (39-120)	2FP (10-120)	TBP (33-120)	NBZ (33-120)	PHL (10-120)	TPHL (36-122)
LCS 240-443713/13-A	Lab Control Sample	68	64	81	70	57	84
MB 240-443713/12-A	Method Blank	79	71	84	71	63	95

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: TCLP

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	FBP (39-120)	2FP (10-120)	TBP (33-120)	NBZ (33-120)	PHL (10-120)	TPHL (36-122)
240-133601-1	S-58507-071320-SSH-0520	68	60	71	60	52	86

Surrogate Legend

FBP = 2-Fluorobiphenyl (Surr)
2FP = 2-Fluorophenol (Surr)
TBP = 2,4,6-Tribromophenol (Surr)
NBZ = Nitrobenzene-d5 (Surr)

Eurofins TestAmerica, Canton

Surrogate Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron
PHL = Phenol-d5 (Surr)
TPHL = Terphenyl-d14 (Surr)

Job ID: 240-133601-1

- 1
- 2
- 3
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- 11
- 12
- 13
- 14

Lab Chronicle

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Client Sample ID: S-58507-071320-SSH-0520

Lab Sample ID: 240-133601-1

Date Collected: 07/13/20 11:15

Matrix: Solid

Date Received: 07/17/20 10:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			443785	07/22/20 16:05	DRJ	TAL CAN
TCLP	Analysis	8260B		1	443994	07/24/20 00:33	TJL1	TAL CAN
TCLP	Leach	1311			443585	07/21/20 16:30	DRJ	TAL CAN
TCLP	Prep	3510C			443713	07/22/20 09:45	MDH	TAL CAN
TCLP	Analysis	8270C		1	444158	07/24/20 21:49	MRU	TAL CAN
TCLP	Leach	1311			443585	07/21/20 16:30	DRJ	TAL CAN
TCLP	Prep	3010A			443693	07/22/20 14:00	MRL	TAL CAN
TCLP	Analysis	6010B		1	443964	07/23/20 21:52	WKD	TAL CAN
TCLP	Leach	1311			443585	07/21/20 16:30	DRJ	TAL CAN
TCLP	Prep	7470A			443695	07/22/20 15:00	MRL	TAL CAN
TCLP	Analysis	7470A		1	444127	07/23/20 17:18	SLD	TAL CAN

Laboratory References:

TAL CAN = Eurofins TestAmerica, Canton, 4101 Shuffel Street NW, North Canton, OH 44720, TEL (330)497-9396

Accreditation/Certification Summary

Client: GHD Services Inc.
Project/Site: 11208041, RACER Nodular Iron

Job ID: 240-133601-1

Laboratory: Eurofins TestAmerica, Canton

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.


Authority	Program	Identification Number	Expiration Date
California	State	2927	02-23-21
Connecticut	State	PH-0590	12-31-21
Florida	NELAP	E87225	06-30-21
Georgia	State	4062	02-23-21
Illinois	NELAP	004498	07-31-20
Iowa	State	421	06-01-21
Kansas	NELAP	E-10336	04-30-21
Kentucky (UST)	State	112225	02-23-21
Kentucky (WW)	State	KY98016	12-31-20
Minnesota	NELAP	OH00048	12-31-20
Minnesota (Petrofund)	State	3506	08-01-21
New Jersey	NELAP	OH001	06-30-21
New York	NELAP	10975	03-31-21
Ohio VAP	State	CL0024	06-05-21
Oregon	NELAP	4062	02-24-21
Pennsylvania	NELAP	68-00340	08-31-20
Texas	NELAP	T104704517-18-10	08-31-20
USDA	US Federal Programs	P330-18-00281	09-17-21
Virginia	NELAP	010101	09-14-20
Washington	State	C971	01-12-21
West Virginia DEP	State	210	12-31-20

Canton Facility

Client GTD Site Name _____ Cooler unpacked by: Argent
 Cooler Received on 7/17/20 Opened on 7/17/20
 FedEx: 1st Grd Exp UPS FAS Clipper Client Drop Off TestAmerica Courier Other

Receipt After-hours: Drop-off Date/Time _____ **Storage Location** _____

TestAmerica Cooler # ETA Foam Box Client Cooler Box Other _____
 Packing material used: Bubble Wrap Foam Plastic Bag None Other _____
 COOLANT: Wet Ice Blue Ice Dry Ice Water None

1. Cooler temperature upon receipt See Multiple Cooler Form
 IR GUN# IR-10 (CF +0.7 °C) Observed Cooler Temp. _____ °C Corrected Cooler Temp. _____ °C
 IR GUN #IR-11 (CF +0.9°C) Observed Cooler Temp. 3.0 °C Corrected Cooler Temp. 3.9 °C
2. Were tamper/custody seals on the outside of the cooler(s)? If Yes Quantity 1 Yes No
 -Were the seals on the outside of the cooler(s) signed & dated? Yes No NA
 -Were tamper/custody seals on the bottle(s) or bottle kits (LLHg/MeHg)? Yes No
 -Were tamper/custody seals intact and uncompromised? Yes No NA
3. Shippers' packing slip attached to the cooler(s)? Yes No
4. Did custody papers accompany the sample(s)? Yes No
5. Were the custody papers relinquished & signed in the appropriate place? Yes No
6. Was/were the person(s) who collected the samples clearly identified on the COC? Yes No
7. Did all bottles arrive in good condition (Unbroken)? Yes No
8. Could all bottle labels be reconciled with the COC? Yes No
9. Were correct bottle(s) used for the test(s) indicated? Yes No
10. Sufficient quantity received to perform indicated analyses? Yes No
11. Are these work share samples? Yes No
12. Were all preserved sample(s) at the correct pH upon receipt? Yes No NA pH Strip Lot# HC911298
13. Were VOAs on the COC? Yes No
14. Were air bubbles >6 mm in any VOA vials? Yes No NA  ← Larger than this.
15. Was a VOA trip blank present in the cooler(s)? Trip Blank Lot # _____ Yes No
16. Was a LL Hg or Me Hg trip blank present? Yes No

Tests that are not checked for pH by Receiving:

VOAs
Oil and Grease
TOC

Contacted PM _____ Date _____ by _____ via Verbal Voice Mail Other

Concerning _____

17. CHAIN OF CUSTODY & SAMPLE DISCREPANCIES Samples processed by: _____

18. SAMPLE CONDITION
 Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.
 Sample(s) _____ were received with bubble >6 mm in diameter. (Notify PM)

19. SAMPLE PRESERVATION
 Sample(s) _____ were further preserved in the laboratory.
 Time preserved: _____ Preservative(s) added/Lot number(s): _____
 VOA Sample Preservation - Date/Time VOAs Frozen: _____

Appendix B.2

Wipe Sample



Friday, September 18, 2020

Fibertec Project Number: 98031
Project Identification: 200517 /200517
Submittal Date: 09/17/2020

Mr. Thomas Holdeman
Job Site Services
4395 Wilder Road
Bay City, MI 48706

Dear Mr. Holdeman,

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 7 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 "Sharon L. Rakow".

By Sharon Rakow at 4:18 PM, Sep 18, 2020

For Daryl P. Strandbergh
Laboratory Director

Enclosures

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

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T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584



Analytical Laboratory Report
Laboratory Project Number: 98031
Laboratory Sample Number: 98031-001

Order: 98031
 Page: 2 of 3
 Date: 09/18/20

Client Identification: Job Site Services	Sample Description: WP-091720-01	Chain of Custody: 192944
Client Project Name: 200517	Sample No: WP-01	Collect Date: 09/17/20
Client Project No: 200517	Sample Matrix: Wipe	Collect Time: 09:20

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Polychlorinated Biphenyls (PCBs)
Method: FES S-130/EPA 8082A

Aliquot ID: 98031-001 **Matrix: Wipe**
Description: WP-091720-01

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation		Analysis		
						P. Date	P. Batch	A. Date	A. Batch	Init.
1. Aroclor-1016	U	L+	µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
2. Aroclor-1221	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
3. Aroclor-1232	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
4. Aroclor-1242	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
5. Aroclor-1248	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
6. Aroclor-1254	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
7. Aroclor-1260	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
‡ 8. Aroclor-1262	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA
‡ 9. Aroclor-1268	U		µg/100 cm2	5.0	0.50	09/17/20	PS20117G	09/18/20	SF20118B	BDA

1914 Holloway Drive
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 8660 S. Mackinaw Trail

Holt, MI 48842
 Brighton, MI 48116
 Cadillac, MI 49601

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 T: (810) 220-3300
 T: (231) 775-8368

F: (517) 699-0388
 F: (810) 220-3311
 F: (231) 775-8584

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):

T104704518-19-8 (TX)

1914 Holloway Drive
11766 E. Grand River
8660 S. Mackinaw Trail

Holt, MI 48842
Brighton, MI 48116
Cadillac, MI 49601

T: (517) 699-0345
T: (810) 220-3300
T: (231) 775-8368

F: (517) 699-0388
F: (810) 220-3311
F: (231) 775-8584

Appendix C

Permit Documentation

Appendix C.1
EGL Water Resources Division
Permit – WRP019885 V.1



MICHIGAN DEPARTMENT OF ENVIRONMENT, GREAT LAKES, AND ENERGY
WATER RESOURCES DIVISION
PERMIT

Issued To:

David Favero
1505 Woodward Ave Ste 200
Detroit, MI 48226

Permit No: WRP019885 v.1
Submission No.: HNT-09MT-RQM1E
Site Name: RACER-Saginaw Nodular Indust
Issued: January 16, 2020
Revised:
Expires: January 16, 2025

This permit is being issued by the Michigan Department of Environment, Great Lakes, and Energy (EGLE), Water Resources Division, under the provisions of the Natural Resources and Environmental Protection Act, 1994 PA 451, as amended (NREPA); specifically:

- | | |
|---|---|
| <input type="checkbox"/> Part 301, Inland Lakes and Streams | <input type="checkbox"/> Part 323, Shorelands Protection and Management |
| <input checked="" type="checkbox"/> Part 303, Wetlands Protection | <input type="checkbox"/> Part 325, Great Lakes Submerged Lands |
| <input type="checkbox"/> Part 315, Dam Safety | <input type="checkbox"/> Part 353, Sand Dunes Protection and Management |
| <input checked="" type="checkbox"/> Part 31, Water Resources Protection (Floodplain Regulatory Authority) | |

Permission is hereby granted, based on permittee assurance of adherence to State of Michigan requirements and permit conditions, to:

Authorized Activity:

Removal of 60 linear feet by 20 linear feet of hazardous waste requested by EPA. Fill 60 linear feet by 20 linear feet with sand once project is done. Excavate 45 cubic yards of material and place up to 45 cubic yards of fill within the 100-year floodplain of the Saginaw River, in accordance with the attached plans and specifications of this permit.

Waterbody Affected: Emergent Wetland and Saginaw Floodplain
Property Location: Saginaw County, City of Saginaw, T 12 N/R 05 E/Section 05

Authority granted by this permit is subject to the following limitations:


- A. Initiation of any work on the permitted project confirms the permittee's acceptance and agreement to comply with all terms and conditions of this permit.
- B. The permittee, in exercising the authority granted by this permit, shall not cause unlawful pollution as defined by Part 31 of the NREPA.

- C. This permit shall be kept at the site of the work and available for inspection at all times during the duration of the project or until its date of expiration.
- D. All work shall be completed in accordance with the approved plans and specifications submitted with the application and/or plans and specifications attached to this permit.
- E. No attempt shall be made by the permittee to forbid the full and free use by the public of public waters at or adjacent to the structure or work approved.
- F. It is made a requirement of this permit that the permittee give notice to public utilities in accordance with 2013 PA 174 (Act 174) and comply with each of the requirements of Act 174.
- G. This permit does not convey property rights in either real estate or material, nor does it authorize any injury to private property or invasion of public or private rights, nor does it waive the necessity of seeking federal assent, all local permits, or complying with other state statutes.
- H. This permit does not prejudice or limit the right of a riparian owner or other person to institute proceedings in any circuit court of this state when necessary to protect his rights.
- I. Permittee shall notify EGLE within one week after the completion of the activity authorized by this permit by completing and forwarding the attached preaddressed postcard to the office addressed thereon.
- J. This permit shall not be assigned or transferred without the written approval of EGLE.
- K. Failure to comply with conditions of this permit may subject the permittee to revocation of permit and criminal and/or civil action as cited by the specific state act, federal act, and/or rule under which this permit is granted.
- L. All dredged or excavated materials shall be disposed of in an upland site (outside of floodplains, unless exempt under Part 31 of the NREPA, and wetlands).
- M. In issuing this permit, EGLE has relied on the information and data that the permittee has provided in connection with the submitted application for permit. If, subsequent to the issuance of a permit, such information and data prove to be false, incomplete, or inaccurate, EGLE may modify, revoke, or suspend the permit, in whole or in part, in accordance with the new information.
- N. The permittee shall indemnify and hold harmless the State of Michigan and its departments, agencies, officials, employees, agents, and representatives for any and all claims or causes of action arising from acts or omissions of the permittee, or employees, agents, or representative of the permittee, undertaken in connection with this permit. The permittee's obligation to indemnify the State of Michigan applies only if the state: (1) provides the permittee or its designated representative written notice of the claim or cause of action within 30 days after it is received by the state, and (2) consents to the permittee's participation in the proceeding on the claim or cause of action. It does not apply to contested case proceedings under the Administrative Procedures Act, 1969 PA 306, as amended, challenging the permit. This permit shall not be construed as an indemnity by the State of Michigan for the benefit of the permittee or any other person.
- O. Noncompliance with these terms and conditions and/or the initiation of other regulated activities not specifically authorized shall be cause for the modification, suspension, or revocation of this permit, in whole or in part. Further, EGLE may initiate criminal and/or civil proceedings as may be deemed necessary to correct project deficiencies, protect natural resource values, and secure compliance with statutes.
- P. If any change or deviation from the permitted activity becomes necessary, the permittee shall request, in writing, a revision of the permitted activity from EGLE. Such revision request shall include complete documentation supporting the modification and revised plans detailing the proposed modification. Proposed modifications must be approved, in writing, by EGLE prior to being implemented.
- Q. This permit may be transferred to another person upon written approval of EGLE. The permittee must submit a written request to EGLE to transfer the permit to the new owner. The new owner must also submit a written request to EGLE to accept transfer. The new owner must agree, in writing, to accept all conditions of the permit. A single letter signed by both parties that includes all the above information may be provided to EGLE. EGLE will review the request and, if approved, will provide written notification to the new owner.
- R. Prior to initiating permitted construction, the permittee is required to provide a copy of the permit to the contractor(s) for review. The property owner, contractor(s), and any agent involved in exercising the permit are held responsible to ensure that the project is constructed in accordance with all drawings and specifications. The contractor is required to provide a copy of the permit to all subcontractors doing work authorized by the permit.

- S. Construction must be undertaken and completed during the dry period of the wetland. If the area does not dry out, construction shall be done on equipment mats to prevent compaction of the soil.
- T. Authority granted by this permit does not waive permit requirements under Part 91, Soil Erosion and Sedimentation Control, of the NREPA, or the need to acquire applicable permits from the County Enforcing Agent (CEA).
- U. Authority granted by this permit does not waive permit requirements under the authority of Part 305, Natural Rivers, of the NREPA. A Natural Rivers Zoning Permit may be required for construction, land alteration, streambank stabilization, or vegetation removal along or near a natural river.
- V. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
- W. Unless specifically stated in this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a wetland or on bottomland of the water body are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
- X. For projects with potential impacts to fish spawning or migration, no work shall occur within fish spawning or migration timelines (i.e., windows) unless otherwise approved in writing by the Michigan Department of Natural Resources, Fisheries Division.
- Y. Work to be done under authority of this permit is further subject to the following special instructions and specifications:
1. Authority granted by this permit does not waive permit or program requirements under Part 91 of the NREPA or the need to acquire applicable permits from the CEA. To locate the Soil Erosion Program Administrator for your county, visit www.mi.gov/eglestormwater and select "Soil Erosion and Sedimentation Control Program" under "Related Links."
 2. The authority to conduct the activity as authorized by this permit is granted solely under the provisions of the governing act as identified above. This permit does not convey, provide, or otherwise imply approval of any other governing act, ordinance, or regulation, nor does it waive the permittee's obligation to acquire any local, county, state, or federal approval or authorization necessary to conduct the activity.
 3. No fill, excess soil, or other material shall be placed in any wetland, floodplain, or surface water area not specifically authorized by this permit, its plans, and specifications.
 4. This permit does not authorize or sanction work that has been completed in violation of applicable federal, state, or local statutes.
 5. The permit placard shall be kept posted at the work site in a prominent location at all times for the duration of the project or until permit expiration.
 6. Prior to the initiation of any permitted construction activity, a sedimentation barrier shall be installed along the entire route of the disturbed wetland area and maintained in good working order until permanent stabilization and re-vegetation of all disturbed areas has occurred. The sedimentation barrier shall be removed after re-vegetation.
 7. Construction must be undertaken and completed during the dry period of the wetland, or when frozen.
 8. If the area does not dry out or freeze, construction shall be done on equipment mats to prevent compaction of the soil.
 9. Upon completion of the project, the disturbed wetland areas shall be restored to the original contour elevation, revegetated and reseeded with species native to Michigan appropriate to the site, and mulched to prevent erosion.
 10. All fill/backfill shall consist of clean inert material which will not cause siltation nor contain soluble chemicals, organic matter, pollutants, contaminants or **broken concrete**. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.
 11. The design flood or 1% annual chance (100-year) floodplain elevation at this location on the Saginaw River is 589.3 feet NGVD29 (588.5 feet NAVD88).
 12. Fill within the 100-year floodplain is limited to 45 cubic yards.

13. The compensating cut (excavations) for floodplain fill, as authorized by this permit, shall be completed prior to, or concurrently with, the placement of the fill. The compensating cut and fill areas shall be properly stabilized to prevent soil erosion and off site sedimentation in conformance with Part 91, Soil Erosion and Sedimentation Control, of the NREPA.
14. Fill shall not be placed to prevent surface water drainage across the site. Site runoff shall be directed to public or natural drainage ways and not unnaturally discharged onto adjacent properties.
15. The permittee is cautioned that grade changes resulting in increased runoff onto adjacent property is subject to civil damage litigation.
16. All fill/backfill shall consist of clean inert material that will not cause siltation nor contain soluble chemicals, organic matter, pollutants, or contaminants. All fill shall be contained in such a manner so as not to erode into any surface water, floodplain, or wetland. All raw areas associated with the permitted activity shall be stabilized with sod and/or seed and mulch, riprap, or other technically effective methods as necessary to prevent erosion.
17. Unless specifically stated under the "Permitted Activity" of this permit, construction pads, haul roads, temporary structures, or other structural appurtenances to be placed in a floodplain are not authorized and shall not be constructed unless authorized by a separate permit or permit revision granted in accordance with the applicable law.
18. Under Appendix G of the Michigan Building Code 2009, a local building permit is required for development located in flood hazard areas.
19. The project is located within a community that participates in the National Flood Insurance Program (NFIP). As a participant in the NFIP, the community must comply with the Michigan Building Code (including Appendix G and listed supporting materials); the Michigan Residential Code; and Title 44 of the Code of Federal Regulations, Part 60, Criteria for Land Management and Use. The community is also responsible to ensure that its floodplain maps and studies are maintained to show changes to flood elevations and flood delineations as described in 44 CFR, Part 65, Identification and Mapping of Special Hazard Areas.
20. This permit is limited to authorizing the construction as specified above and carries with it no assurances or implications that associated lake, stream, wetland or floodplain areas can be developed and serviced by the structures authorized by this permit.
21. The permittee is hereby notified that portions of the parcel, not covered by this permit, fall under the regulatory authority of Part 301, Inland Lakes and Streams, and/or Part 31, Floodplain Regulatory Authority/Water Resources Protection, and/or Part 303, Wetlands Protection, of the NREPA. A permit from the EGLE Water Resources Division may be required for certain regulated activities. Failure to comply with the requirements of the NREPA may subject the owner to compliance actions as provided by statute.
22. Historic artifacts could occur on or near this project site and may be impacted by your activities. If during the course of construction artifacts are encountered, immediately contact the Office of the State Archaeologist, at 517-373-6358.

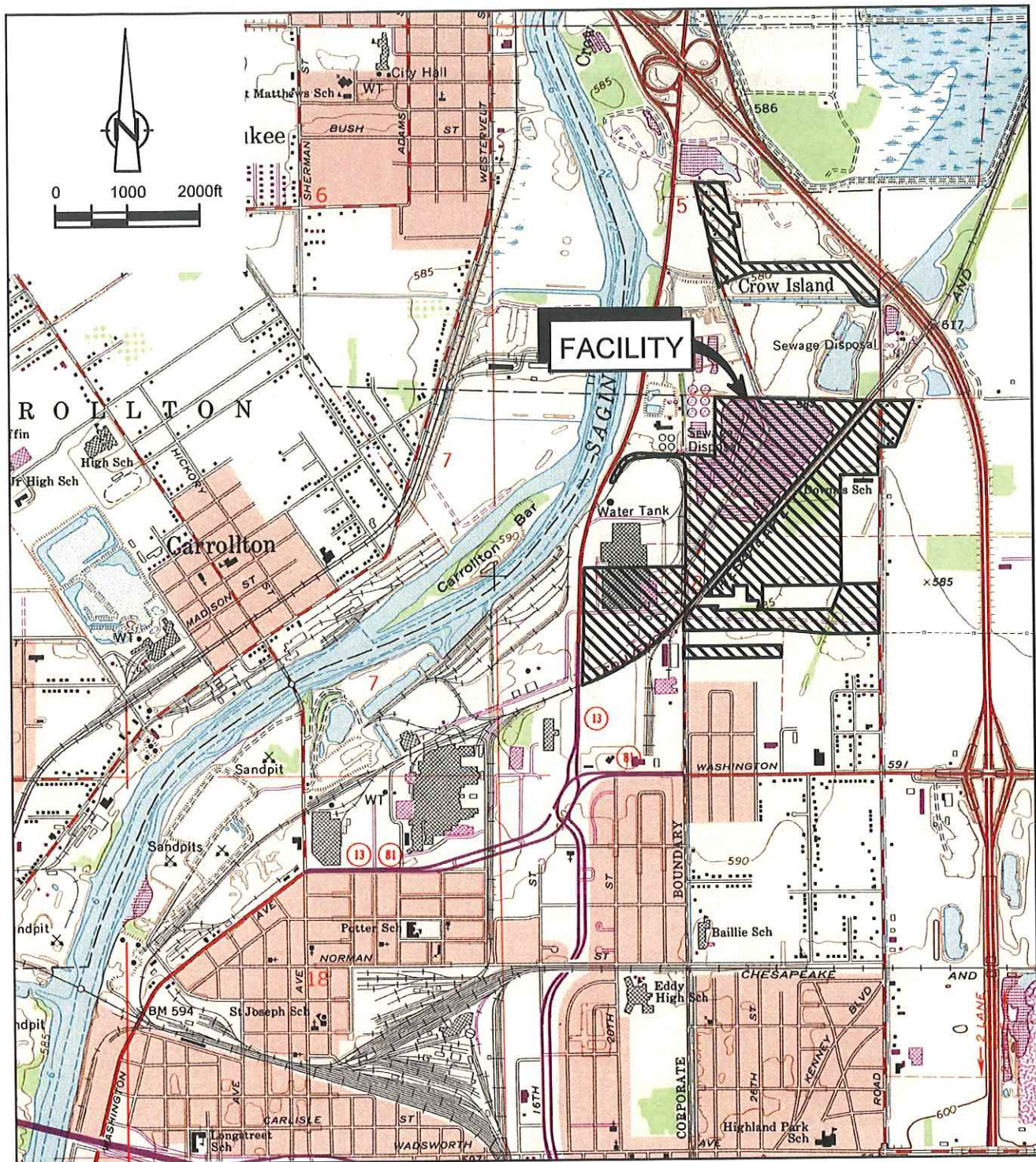
23. This permit is being issued for the maximum time allowed and no extensions of this permit will be granted. Initiation of the construction work authorized by this permit indicates the permittee's acceptance of this condition. The permit, when signed by EGLE, will be for a five-year period beginning on the date of issuance. If the project is not completed by the expiration date, a new permit must be sought.

Issued By: 
Whitney Hoppes
Environmental Quality Analyst
Bay City District Office
Water Resources Division
989-355-4959



Attached; Plans

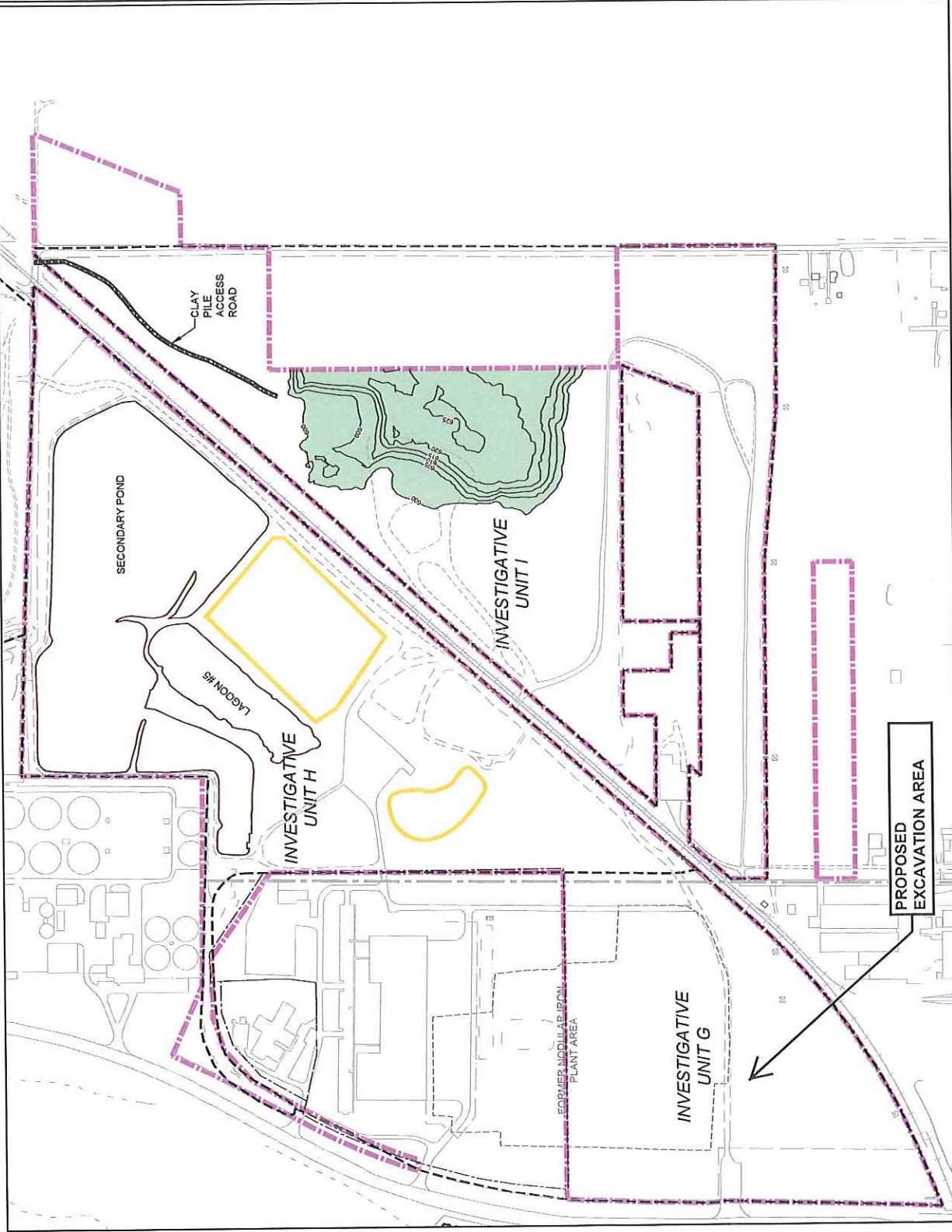
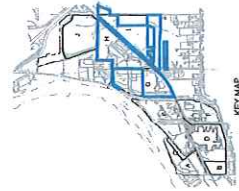
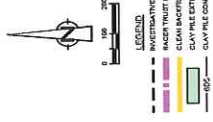
cc: City of Saginaw Clerk
Saginaw County Drain Commissioner
Saginaw County CEA
City of Saginaw Building Official/Floodplain Administrator
John-Eric Pardys- Agent



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC QUADRANGLE; SAGINAW, MICHIGAN 1967



figure 1.1
 SITE LOCATION
 REVITALIZING AUTOMOTIVE COMMUNITY
 ENVIRONMENTAL RESPONSE
 Saginaw, Michigan



RACER TRUST
 SAGINAW, MICHIGAN
 CLEAN BACKFILL STOCKPILES

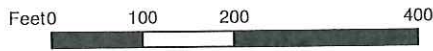
<small> GEOTECHNICAL ENGINEERING SPECIALTY GROUP PROJECT NUMBER: 98500-102 PROJECT NAME: CLEAN BACKFILL STOCKPILES DATE: OCTOBER 2016 DRAWING NUMBER: 015 DRAWING TITLE: Figure 2 </small>	

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Figure 1. Wetland Location Map

NE 1424 Racer Trust Industrial Park
 Client: Menard, Inc.
 38.86-Acre Property at 2100 Veterans Memorial Parkway
 Section 8 of Buena Vista Twp., Saginaw Co., MI (T12N, R5E)
 Delineation Date: July 15 & 16, 2015
 Map Created: July 16, 2015



9436 Maltby Road, Brighton, MI 48116
 810.225.0539 office | 810.225.0653 fax



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
 FLOOD INSURANCE RATE MAP
 SAGINAW COUNTY,
 MICHIGAN
 (CALL JURISDICTIONS)

PANEL 85 OF 360
 (SEE MAP INDEX FOR PANELS NOT PRINTED)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
BIEN VISTA, CHARTER TOWNSHIP OF	26149	005	D
CARROLLTON, TOWNSHIP OF	26201	005	D
ACQUILLE, TOWNSHIP OF	26204	005	D
SAGINAW, CITY OF	26205	005	D
ZELMER, CITY OF	26225	005	D
ZELMER, TOWNSHIP OF	26226	005	D

Notice to Users: The Map Number shown below should be used with any order for the COMMUNITY NUMBER shown above should be used in insurance applications for the subject community.

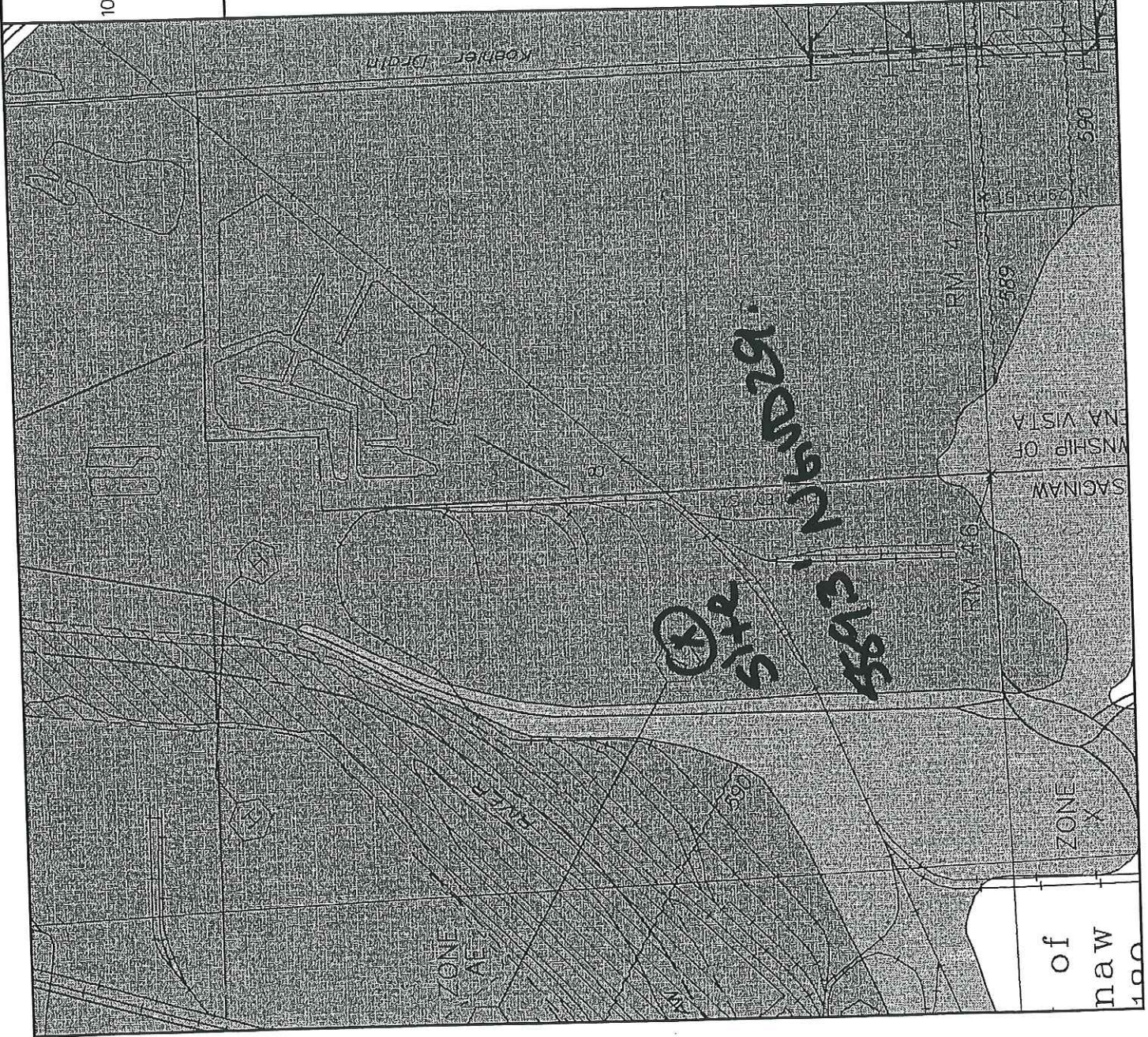
MAP NUMBER
26145C0085 D

EFFECTIVE DATE:
OCTOBER 16, 1997



Federal Emergency Management Agency

This is an official copy of a portion of the above referenced flood map. It was extracted using F-IRM On-Line. This map does not reflect changes or amendments which may have been made subsequent to the date on the title block. For the latest product information about National Flood Insurance Program flood maps check the FEMA Flood Map Store at www.msc.fema.gov



FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION			
CROSS SECTION	DISTANCE ¹	WIDTH (FEET)	SECTION AREA (SQARE FEET)	MEAN VELOCITY (FEET PER SECOND)	REGULATORY	WITHOUT FLOODWAY (FEET NGVD)	WITH FLOODWAY	INCREASE
Saginaw River								
A	11.802	923	14,252	4.8	587.2	587.2	587.3	0.1
B	12.569	1,416	20,955	3.3	587.8	587.8	587.9	0.1
C	13.249	1,085	15,405	4.4	588.0	588.0	588.1	0.1
D	13.747	1,195	17,540	3.9	588.3	588.3	588.4	0.1
E	14.385	537	14,224	4.8	588.6	588.6	588.7	0.1
F	14.407	540	10,764	6.4	588.6	588.6	588.6	0.0
G	15.156	713	15,498	4.4	589.1	589.1	589.2	0.1
H	15.612	545	13,361	5.1	589.3	589.3	589.4	0.1
I	16.169	1009	14,687	4.7	589.7	589.7	589.8	0.1
J	16.500	659	16,294	4.2	589.9	589.9	590.0	0.1
K	16.758	447	14,365	4.7	590.0	590.0	590.1	0.1
L	16.776	561	12,181	5.6	590.0	590.0	590.0	0.0
M	17.282	592	14,446	4.7	590.3	590.3	590.4	0.1
N	17.758	450	12,384	5.5	590.5	590.5	590.6	0.1
O	17.791	732	15,750	4.3	590.7	590.7	590.8	0.1
P	18.134	560	13,585	5.0	590.8	590.8	590.9	0.1
Q	18.161	531	12,616	5.4	590.8	590.8	590.8	0.0
R	18.268	518	12,345	5.5	590.8	590.8	590.9	0.1
S	18.335	430	12,428	5.5	590.9	590.9	591.0	0.1
T	18.431	441	10,255	6.6	590.8	590.8	590.9	0.1
U	18.598	435	11,431	5.9	591.1	591.1	591.2	0.1
V	18.871	460	12,171	5.6	591.3	591.3	591.4	0.1
W	18.939	550	11,467	5.9	591.3	591.3	591.4	0.1
X	19.432	510	11,830	5.7	591.7	591.7	591.8	0.1
Y	19.463	575	12,717	5.3	591.9	591.9	592.0	0.1
Z	20.116	510	10,866	6.3	592.2	592.2	592.3	0.1

¹Miles above mouth

FLOODWAY DATA

SAGINAW RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY

SAGINAW COUNTY, MI
(ALL JURISDICTIONS)

TABLE 7

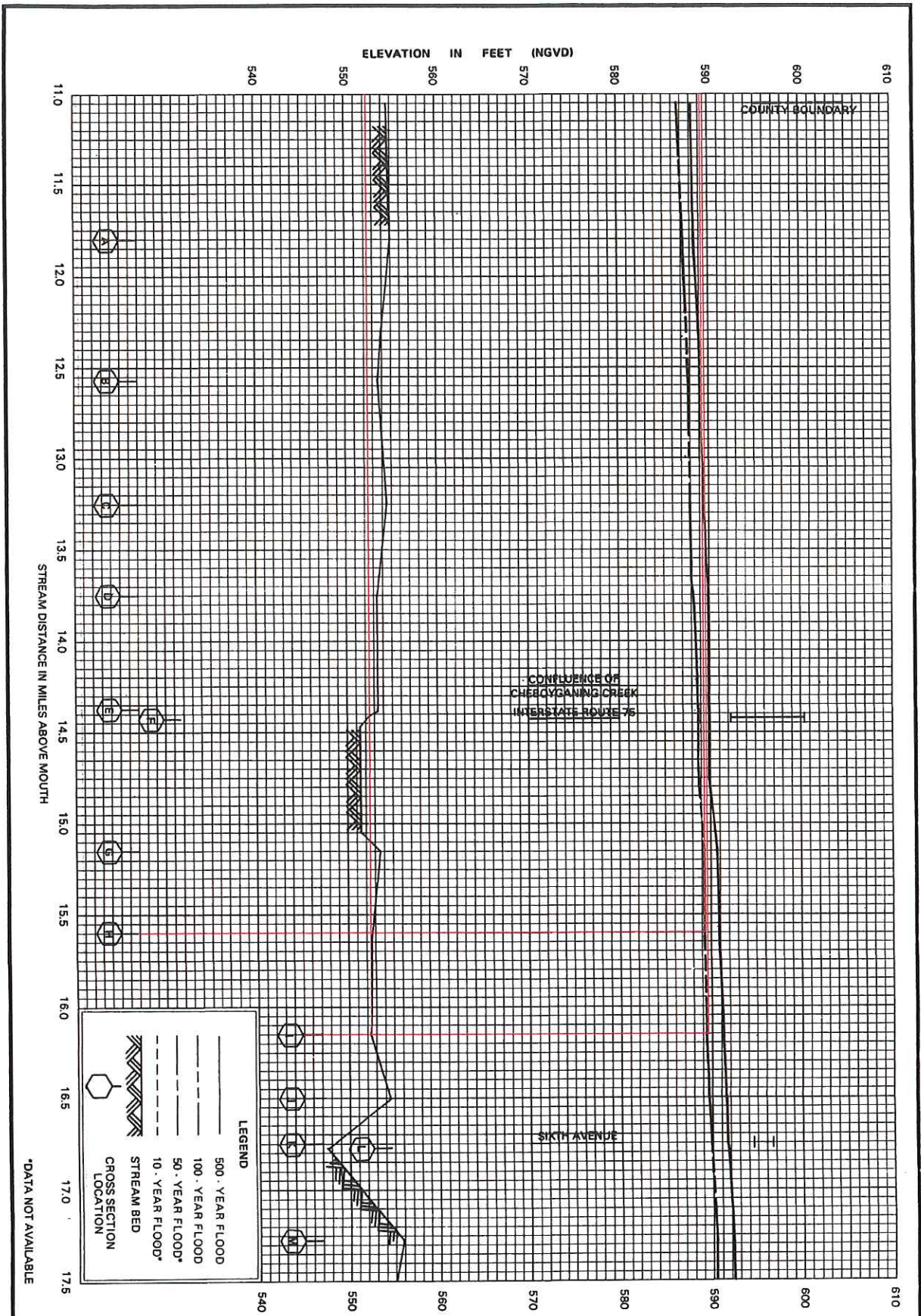




Photo 1 – Proposed Wetland Excavation Area



Site Photographs



Photo 2 – Proposed Wetland Excavation Area





Photo 3 – Proposed Wetland Excavation Area



Site Photographs

Appendix C.2

City of Saginaw Floodplain Permit



City of Saginaw

ENGINEERING DEPARTMENT

1315 S Washington Ave
Saginaw, MI 48601
(989) 759-1410

PFDPL20-001

Issued: 07/24/2020
Expires:

Flood Plain

07/23/2020

LOCATION	OWNER	CONTRACTOR
2100 VETERANS MEMORIAL PKWY 21 4333 00000 M-3	RACER PROPERTIES LLC PO BOX 43859 DETROIT MI 48243 Phone: 217-741-6235 Fax:	Phone: Fax:

Special Notes and Comments

1. Project Description - Remediation (removal and off-Site disposal of impacted soil)
2. Application Signed City Engineer - yes
3. Application Signed Chief Inspector -
4. Final Approved Plans - attached
5. Base Flood Elevation - na
6. Lowest Flood Elevation - na
7. State Permit Obtained/In Process - yes attached
8. Federal Permit Obtained/In Process - na

SEE ATTACHED APPLICATION FOR ALL INFORMATION AND SIGNATURES

UPON COMPLETION OF THE PROJECT ELEVATION CERTIFICATE(S) MUST BE PROVIDED BY THE APPLICANT IN ORDER TO RECEIVE AN OCCUPANCY PERMIT.

PERMISSION IS HEREBY GRANTED TO WORK WITHIN THE FLOOD PLAIN - ONLY AFTER ALL STATE/FEDERAL PERMITS HAVE BEEN APPROVED

Permit Item	Work Type	Fee Basis	Item Total
		Fee Total:	\$0.00
		Amount Paid:	\$0.00
		Balance Due:	\$0.00

FLOOD PLAIN PERMIT

ALL SECTIONS OF THE CITY OF SAGINAW - FLOODPLAIN DISTRICT MUST BE FOLLOWED ~~(153.540 TO 153.556)~~ (153.505 to 153.521)

HOLD HARMLESS AND INDEMNITY

In consideration of the issuance of this permit, undersigned agrees to hold harmless and indemnify the City of Saginaw from all claims, damages, expenses and suits of every kind which may arise by reason of the issuance of this permit and operations performed and maintained there under.

Said applicant agrees to maintain and keep all construction property safeguarded, barricaded and lighted, and further that said applicant be solely responsible of all damages, accidents or loss of life, limb or property, and shall save the City of Saginaw harmless from any and all causes whatsoever and to the fullest extent.

Date: 7/24/2020

Signature: David Favero

Printed Name:

David Favero, Michigan Deputy Cleanup Manager for RACER Properties LLC

Appendix D

Photographic Log of PCB- impacted Soil Removal Activities



Photo 1 – Track Mats to Access Excavation Area Facing South – September 15, 2020



Photo 2 –Excavation Area – September 15, 2020



Appendix D- Site Photographs



Photo 3 – Eastern Portion of Excavation Area – September 15, 2020



Photo 4 – Loading of Stockpiled Material from Excavation Area – September 15, 2020



Appendix D- Site Photographs



Photo 5 – Completed Excavation Area Facing East – September 16, 2020



Photo 7 – Completed Excavation Area Facing Southeast – September 16, 2020



Appendix D- Site Photographs



Photo 8 – Straw Mat for Restoration of Disturbed Soil, Facing East – September 17, 2020



Photo 9 – Straw Mat for Restoration of Disturbed Soil, Facing West – September 17, 2020



Appendix D- Site Photographs



Photo 10 – Completed Site Restoration, Facing South – September 17, 2020



Appendix D- Site Photographs

Appendix E

Waste Disposal Manifests



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.		Manifest Doc No.		2. Page 1 of 8			
3. Generator's Mailing Address: RACER TRUST 2100 VETERANS MEMORIAL PARKWAY SAGINAW, MI 48601			Generator's Site Address (if different than mailing): SAME			A. Manifest Number WMNA 91520-1			
4. Generator's Phone			6. US EPA ID Number			B. State Generator's ID			
5. Transporter 1 Company Name Jobsite Services			7. Transporter 2 Company Name			C. State Transporter's ID			
9. Designated Facility Name and Site Address Peoples Landfill 4143 E. Rathbun Birch Run, MI 48415			8. US EPA ID Number			D. Transporter's Phone			
			10. US EPA ID Number			E. State Transporter's ID			
						F. Transporter's Phone			
						G. State Facility ID			
						H. State Facility Phone 989-539-6111			
GENERATOR	11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.	15. Misc. Comments		
	a. PCB Impacted Soil and Misc Debris		No.	Type	20	yards			
	WM Profile # 118569MI		1	DT					
	b.				19.54				
	WM Profile #								
	c.								
WM Profile #									
d.									
WM Profile #									
J. Additional Descriptions for Materials Listed Above Color - Brown Physical State - Solid Odor - NO					K. Disposal Location				
BILL TO: Job Site Services					Cell	Level			
					Grid				
15. Special Handling Instructions and Additional Information									
Purchase Order #				EMERGENCY CONTACT / PHONE NO.: Dave Favero 734-579-9525					
16. GENERATOR'S CERTIFICATE: - Must Be Printed and Signed and Dated by the Generator I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.									
Printed Name Steven S. Hoewemeyer			Signature "On behalf of" Racer Trust			Month	Day	Year	
						9	15	2020	
TRANSPORTER	17. Transporter 1 Acknowledgement of Receipt of Materials								
	Printed Name Eric Spawicki			Signature			Month	Day	Year
							9	15	2020
18. Transporter 2 Acknowledgement of Receipt of Materials									
Printed Name			Signature			Month	Day	Year	
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.								
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.								
	Printed Name Dennis Turko			Signature			Month	Day	Year
						9	15	2020	

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 2			
3. Generator's Mailing Address: RACER TRUST 2100 VETERANS MEMORIAL PARKWAY SAGINAW, MI 48601		Generator's Site Address (if different than mailing): SAME		A. Manifest Number WMNA 91520-2			
4. Generator's Phone		B. State Generator's ID					
5. Transporter 1 Company Name Job Site Services		6. US EPA ID Number	C. State Transporter's ID				
7. Transporter 2 Company Name		8. US EPA ID Number	D. Transporter's Phone				
9. Designated Facility Name and Site Address Peoples Landfill 4143 E. Rathbun Birch Run, MI 48415		10. US EPA ID Number	E. State Transporter's ID				
			F. Transporter's Phone				
			G. State Facility ID				
			H. State Facility Phone 989-539-6111				
GENERATOR	11. Description of Waste Materials		12. Containers	13. Total Quantity	14. Unit Wt./Vol.	I. Misc. Comments	
	a. PCB Impacted Soil and Misc Debris		No. Type				
	WM Profile # 118569MI		1	DT	20		yards
	b.						
	WM Profile #						21.81
TRANSPORTER	c.						
	WM Profile #						
	d.						
	WM Profile #						
	J. Additional Descriptions for Materials Listed Above Color - Brown Physical State - Solid Odor - NO		K. Disposal Location				
BILL TO: Job Site Services		Cell	Level				
		Grid					
15. Special Handling Instructions and Additional Information							
Purchase Order # _____ EMERGENCY CONTACT / PHONE NO.: Dave Favero 734-579-9525							
16. GENERATOR'S CERTIFICATE: - Must Be Printed and Signed and Dated by the Generator I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.							
Printed Name Steven S. Hoeveringer		Signature "On behalf of" Racer Trust			Month 9	Day 15	Year 2020
17. Transporter 1 Acknowledgement of Receipt of Materials		Signature			Month 9	Day 15	Year 2020
Printed Name Eric Spunkli							
18. Transporter 2 Acknowledgement of Receipt of Materials		Signature			Month	Day	Year
Printed Name							
FACILITY	19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.						
	20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.						
Printed Name Glenn Furtaw		Signature			Month 9	Day 15	Year 2020

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST	1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 3
3. Generator's Mailing Address: RACER TRUST 2100 VETERANS MEMORIAL PARKWAY SAGINAW, MI 48601	Generator's Site Address (if different than mailing): SAME		A. Manifest Number WMNA
			B. State Generator's ID 91520-3
4. Generator's Phone	5. Transporter 1 Company Name Job Services	6. US EPA ID Number	C. State Transporter's ID
	7. Transporter 2 Company Name	8. US EPA ID Number	D. Transporter's Phone
	9. Designated Facility Name and Site Address Peoples Landfill 4143 E. Rathbun Birch Run, MI 48415	10. US EPA ID Number	E. State Transporter's ID
			F. Transporter's Phone
			G. State Facility ID
			H. State Facility Phone 989-539-6111
11. Description of Waste Materials	12. Containers		13. Total Quantity
	a. PCB Impacted Soil and Misc Debris		14. Unit Wt./Vol.
WM Profile # 118569MI	No.	Type	Misc. Comments
b.	1	DT	20 yards
WM Profile #			24.74
c.			
WM Profile #			
d.			
WM Profile #			
J. Additional Descriptions for Materials Listed Above Color - Brown Physical State - Solid Odor - NO	K. Disposal Location		
BILL TO: Job Site Services	Cell	Level	
	Grid		
15. Special Handling Instructions and Additional Information			
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Dave Favero 734-579-9525	
16. GENERATOR'S CERTIFICATE: - Must Be Printed and Signed and Dated by the Generator I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.			
Printed Name Steven S. Hoernemeyer	Signature "On behalf of" Racer Trust	Month 9	Day 18 Year 2020
Printed Name Eric Sparr	Signature [Signature]	Month 9	Day 15 Year 2020
Printed Name	Signature	Month	Day Year
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.			
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.			
Printed Name Chleen Furtaw	Signature [Signature]	Month 9	Day 18 Year 2020

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY



NON-HAZARDOUS MANIFEST

NON-HAZARDOUS MANIFEST		1. Generator's US EPA ID No.	Manifest Doc No.	2. Page 1 of 4	
3. Generator's Mailing Address: RACER TRUST 2100 VETERANS MEMORIAL PARKWAY SAGINAW, MI 48601		Generator's Site Address (if different than mailing): SAME		A. Manifest Number WMNA	91820-4
4. Generator's Phone				B. State Generator's ID	
5. Transporter 1 Company Name JobSite Services		6. US EPA ID Number		C. State Transporter's ID	
7. Transporter 2 Company Name		8. US EPA ID Number		D. Transporter's Phone	
9. Designated Facility Name and Site Address Peoples Landfill 4143 E. Rathbun Birch Run, MI 48415		10. US EPA ID Number		E. State Transporter's ID	
				F. Transporter's Phone	
				G. State Facility ID	
				H. State Facility Phone 989-539-6111	
11. Description of Waste Materials		12. Containers		13. Total Quantity	14. Unit Wt./Vol.
		No.	Type		
a. PCB Impacted Soil and Misc Debris		1	OT	20	yards
WM Profile # 118569MI					
b.					20.48
WM Profile #					
c.					
WM Profile #					
d.					
WM Profile #					
J. Additional Descriptions for Materials Listed Above Color - Brown Physical State - Solid Odor - NO		K. Disposal Location			
BILL TO: Job Site Services		Cell		Level	
		Grid			
15. Special Handling Instructions and Additional Information					
Purchase Order #		EMERGENCY CONTACT / PHONE NO.: Dave Favero 734-579-9525			
16. GENERATOR'S CERTIFICATE: - Must Be Printed and Signed and Dated by the Generator I hereby certify that the above-described materials are not hazardous wastes as defined by CFR Part 261 or any applicable state law, have been fully and accurately described, classified and packaged and are in proper condition for transportation according to applicable regulations.					
Printed Name		Signature "On behalf of"		Month	Day
Steven S. Hoeremeyer		Racer Trust		9	16
					20
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
Eric Gaudin		Eric Gaudin		9	16
					20
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed Name		Signature		Month	Day
19. Certificate of Final Treatment/Disposal I certify, on behalf of the above listed treatment facility, that to the best of my knowledge, the above-described waste was managed in compliance with all applicable laws, regulations, permits and licenses on the dates listed above.					
20. Facility Owner or Operator: Certification of receipt of non-hazardous materials covered by this manifest.					
Printed Name		Signature		Month	Day
Colleen Kurban		Colleen Kurban		9	16
					20

White- TREATMENT, STORAGE, DISPOSAL FACILITY COPY
Pink- FACILITY USE ONLY

Blue- GENERATOR #2 COPY
Gold- TRANSPORTER #1 COPY

Yellow- GENERATOR #1 COPY

Appendix F

Certificate of Destruction



Certificate of Destruction

This certified that your waste, PCB-Impacted Soil and Debris, under waste profile approval number 118569MI has been accepted in to our PEOPLE'S LANDFILL, in Birch Run, MI, and is considered destroyed.

The following documents relate to this disposal:

Profile Number: 118569MI

Manifest Number: 915201/915202/915203/916204

Ticket Number: 391241/391261/391276/391315

Disposal Date: Sept. 15th and 16th, 2020

Coleen Jurtaw

WM Landfill Representative Signature

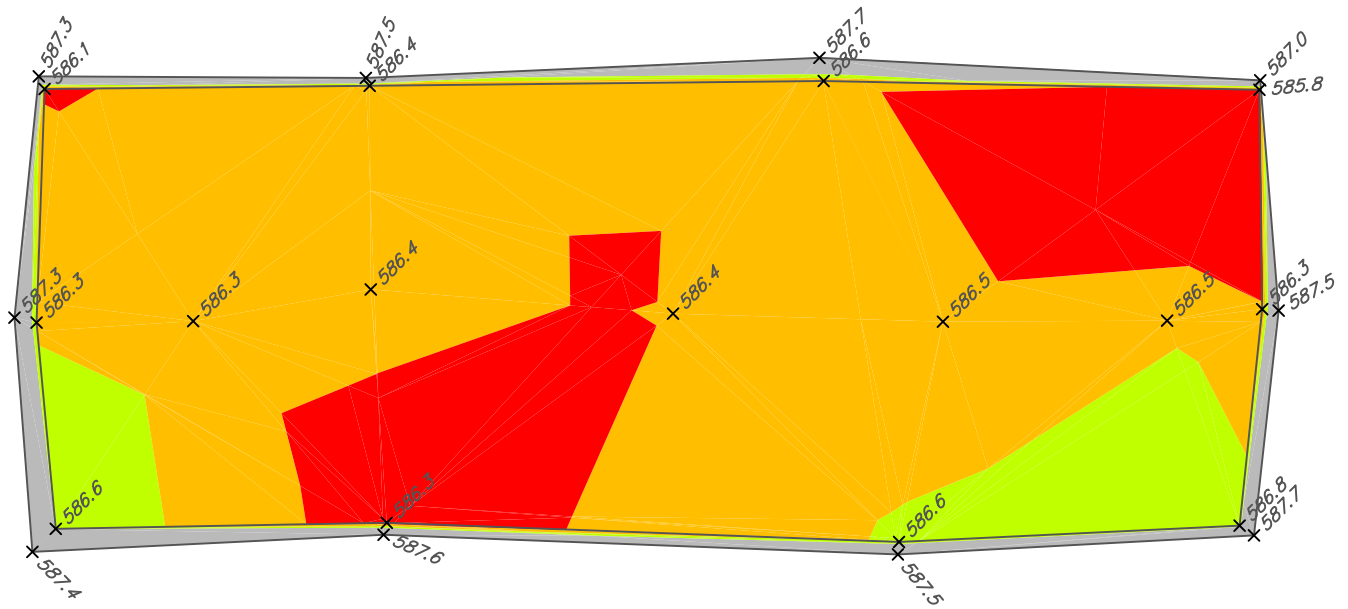
10-14-20





Date

**Thank you for choosing Waste Management.
We appreciate your business.**

Appendix G

Implementation Verification



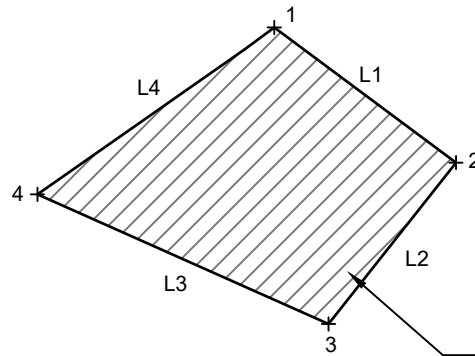
<i>Elevations Table</i>			
<i>Number</i>	<i>Minimum Elevation</i>	<i>Maximum Elevation</i>	<i>Color</i>
1	0.000	0.800	
2	0.800	0.983	
3	0.983	1.212	
4	1.212	1.431	

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area	Cut	Fill	Net
				(Sq. Ft.)	(Cu. Yd.)	(Cu. Yd.)	(Cu. Yd.)
Cut Area	full	1.000	1.000	1595.98	0.00	64.52	64.52<Fill>



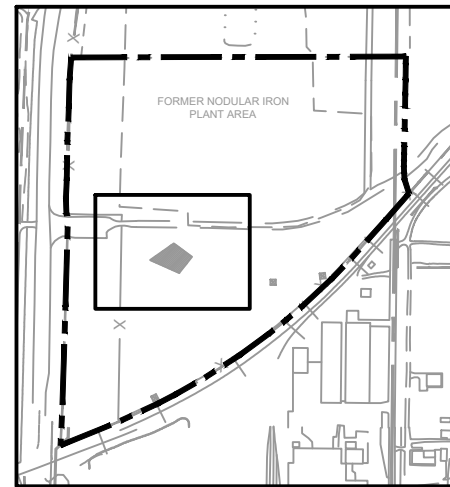
PREPARED BY:
 ERIC S. BARDEN
 PROFESSIONAL SURVEYOR NO. 54049
 230 S. WASHINGTON AVENUE
 SAGINAW, MICHIGAN 48607
 TEL. 989-754-4717
 DRAWN BY: MJ ERRANTE
 DATE: SEPTEMBER 2020
 JOB NUMBER: 128100SG2019

Appendix H
Draft Exhibit for the Restrictive
Covenant – Low-Level PCB Impacted Area



PCB REMEDIATION WASTE AND LOW OCCUPANCY AREA WITH <10 ppm PCBs AT AN APPROXIMATE ELEVATION OF 588 TO 584 ft AMSL (GROUND SURFACE TO 4 FEET BELOW GROUND SURFACE AT THE TIME THE DEED RESTRICTION WAS RECORDED).

1	X = 13244588.2394, Y = 713414.4580
L1	S 53d22'31" E @ 94.35
2	X = 13244663.9620, Y = 713358.1708
L2	S 38d18'40" W @ 85.66
3	X = 13244610.8616, Y = 713290.9608
L3	N 66d0'7" W @ 132.78
4	X = 13244489.5565, Y = 713344.9646
L4	N 54d50'47" E @ 120.70



KEY MAP
SCALE: 1" = 800'

LEGEND



PCB REMEDIATION WASTE/LOW OCCUPANCY AREA AS DEFINED IN 40 CFR 761



APPROXIMATE PROPERTY BOUNDARY



Exhibit

NOTE:
MICHIGAN SOUTH STATE PLANE COORDINATE SYSTEM
NAD 83, IN U.S. INTERNATIONAL FEET.



about GHD

GHD is one of the world's leading professional services companies operating in the global markets of water, energy and resources, environment, property and buildings, and transportation. We provide engineering, environmental, and construction services to private and public sector clients.

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