

**PHASE II ENVIRONMENTAL SITE ASSESSMENT
COMMERCIAL PROPERTY
227 EAST MAIN STREET
HART, MICHIGAN**

Prepared For:

City of Hart
407 State Street
Hart, Michigan 49420

Prepared By:

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October 22, 2019

TABLE OF CONTENTS

1.0 INTRODUCTION.

2.0 SCOPE OF WORK.

3.0 SUBSURFACE INVESTIGATION.

 3.1 Ground Penetrating Radar Survey.

 3.2 Phase II Environmental Site Assessment - Field Sampling Activities.

 3.3 Soil Analytical Results Summary.

 3.3.1 Inorganic Metallic Constituents.

 3.3.2 Polynuclear Aromatic Hydrocarbons.

 3.3.3 Volatile Organic Compounds.

 3.4 Groundwater Analytical Results Summary.

 3.4.1 Inorganic Metallic Constituents.

 3.4.2 Polynuclear Aromatic Hydrocarbons.

 3.4.3 Volatile Organic Compounds.

 3.5 Quality Assurance/Quality Control Data Summary.

4.0 CONCLUSIONS.

5.0 REFERENCES.

FIGURES

- Figure 1: Project Location Map
- Figure 2: Site Vicinity Diagram
- Figure 3: Ground Penetrating Radar Survey/Sample Detail Diagram

APPENDICES

- Appendix A: Soil Boring Logs
- Appendix B: Soil and Groundwater Analytical Results Tables
- Appendix C: Groundwater Parameter Stabilization Table
- Appendix D: Laboratory Analytical Reports

1.0 INTRODUCTION

Dixon Environmental Consulting, Inc. (DEC) was retained to conduct a Phase II Environmental Site Assessment (ESA) for the Commercial Property located at 227 East Main Street, Hart, Oceana County, Michigan (hereafter referred as “subject site” or “subject properties”). The tax parcel identification number for the 0.65-acre subject site was identified as 64-020-209-005-00. The subject site included a portion of Lot 4, Lot 5, Lot 6 and one-half the ownership interest in Lot 7, Block 4 of the Standard Map of Village of Hart (currently known as the City of Hart). The western portion of the subject site was improved with a commercial building (former restaurant) and an asphalt paved parking area. The eastern portion of the subject site (co-owned with the eastern adjoining property owners, Austin and Brooke Bechtel) was maintained as an unpaved parking area with a small storage shed and a hot tub enclosure/retaining wall. A Project Location Map, Site Vicinity Diagram and a Ground Penetrating Radar Survey/Sample Detail Diagram depicting the various site features are included as Figures 1 through 3. A Phase I ESA was completed for the subject property on October 1, 2019. The scope of work for this Phase II ESA provided further investigation and analysis of the Recognized Environmental Conditions (RECs) identified in the Phase I ESA.

Based on the Phase I ESA, the subject site was originally platted as a portion of the Standard Map of the Village of Hart in April 1895. The 1900 fire insurance map depicted two residential houses and two outbuildings on the eastern (Lot 7) and central (Lot 6) portions of the subject site. The western portion of the subject site (Portion of Lot 4/Lot 5) was vacant and no operations were identified. The western portion of the subject site remained vacant until the construction of a poultry market (northern portion of the current building) in 1946.

The west-central portion of the subject site (Lot 5) was purchased by William D. and Barbara A. Walker in May 1964. During the Walker’s ownership, the commercial building was renovated and operated as Walker’s Restaurant/Fine Dining & Cocktails. The central and eastern portions of the subject site (Lots 6 and 7) were acquired in March 1968 and August 1971, respectively. The historical residential houses and outbuildings were demolished/removed and a paved parking area was constructed on the central portion of the subject site. The eastern portion of the subject site was maintained as an unpaved parking area. In addition, three underground storage tanks (USTs) were installed in the mid-1970’s. The USTs were installed on the northeastern portion of the subject site, but were operated by the gasoline filling station/automobile repair facility at the eastern adjoining property. Additional details pertaining to the USTs at the subject site are included below. One-half of the property interest in Lot 7 was later sold to the owners of the eastern

adjoining property, Nicholas and Karol Greiner, in August 1983. The remaining portion of the subject site (eastern six feet of Lot 4) was acquired for the construction of a bar entrance in May 1997. Walker's Restaurant/Fine Dining & Cocktails was operated at the subject site by the Walker Family from the mid-1960's through the early 2000's.

The entire subject site was acquired by Carmbob, LLC in February 2003. During Carmbob, LLC's ownership, the restaurant was operated as Walker's Fine Dining, Inc. The restaurant ultimately closed in 2012 and the subject property was transferred to the current owners, Gene and Luann Moorman. Gail Salazar temporarily acquired the subject site under an unrecorded Land Contract Agreement in December 2012. The restaurant was partially renovated, however, Ms. Salazar defaulted on the Land Contract Agreement and the Moorman's reacquired the subject site in July 2019. At the time of the site reconnaissance, the restaurant was vacant/partially renovated and no operations were conducted.

The one-half ownership interest in Lot 7 (eastern portion of the subject site) was retained by the adjoining property owners, Nicholas and Karol Greiner, through the early 2000's. The Michigan Department of Licensing and Regulatory Affairs, Storage Tank Division (STD) file indicated the three USTs were removed by Boonstra Oil Co., Inc. in the mid or late 1980's. The eastern portion subject site was subsequently maintained as an unpaved parking area. The one-half interest in Lot 7 and the eastern adjoining property were conveyed to Austin and Brooke Bechtel in May 2016. During the Bechtel's ownership, a second level residential addition was constructed above the former gasoline filling station/automobile repair facility at the eastern adjoining property. The unpaved parking area was improved with chipped stone and a hot tub enclosure/retaining wall was installed on the southeastern portion of the subject site.

The Phase I ESA revealed no evidence of recognized environmental conditions (RECs) in connection with the subject properties, except the following:

- A gasoline filling station was historically operated at the eastern adjoining property. The STD records indicated three USTs were operated by the gasoline filling station. The USTs included a 2,000-gallon gasoline UST, a 1,000-gallon gasoline UST and a 500-gallon gasoline UST. Based on the site observations and interviews, the USTs were installed along the western side of the former filling station, on the northeastern portion of the subject site. The USTs were installed in the mid-1970's and were removed in the mid-1980's or late 1980's. Although the filling station owner at that time (Nicholas Greiner) indicated the USTs were removed, no documentation or confirmation soil/groundwater testing was conducted. Due to the lack of documentation and sampling, the potential exists for additional USTs to exist

and/or residual environmental impact to be present at the subject site. The material threat of abandoned USTs and/or residual environmental impact at the subject site was identified as an REC.

- Based on the historical Sanborn Fire Insurance map review, the operations near the subject site included three automobile repair facilities. The automobile repair facilities were located at the adjoining properties to the northeast, east and northwest. Automobile repair operations involve the use/handling of various hazardous substances including oil, fuels, lubricants and antifreeze. The operations at the northwestern adjoining property included a gasoline UST in the East Main Street right-of-way (located along the northern property boundary of the subject site). The material threat of migrating contamination from the adjoining automobile repair facilities was identified as an REC.

The scope of work, outlined in the following section, describes the subsurface investigation and sampling activities conducted to assess the RECs identified in the Phase I ESA. The City of Hart may use and rely on the results and conclusions of the Phase II ESA. No other parties may use or rely on the information without client approval and written permission from DEC.

2.0 SCOPE OF WORK

Dixon Environmental Consulting, Inc. (DEC) conducted the following scope of work to determine whether the recognized environmental conditions (RECs) represented a current environmental risk at the subject properties. The following tasks were conducted to identify whether abandoned underground storage tanks (USTs) existed relating to historical operations and whether the soil and/or groundwater at the subject site were currently impacted and qualified the subject site as a “facility” as defined in Part 201 of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended (Part 201).

A “facility” is defined in Part 201 M.C.L. §324.20101(1)(s). A “facility” means any area, place, or property where a hazardous substance in excess of the concentrations that satisfy the cleanup criteria for unrestricted residential use has been released, deposited, disposed of, or otherwise comes to be located. The term “facility” does not include any area, place, or property at which response activities have been completed which satisfy the cleanup criteria for the residential category provided for in Sections 324.20120a(1)(a) and (17) or at which corrective action has been completed under Part 213 which satisfies the cleanup criteria for unrestricted residential use.

Prior to conducting sub-surface work at the subject properties, DEC contacted Miss Dig System, Inc. (Miss Dig) and requested utility locator staking for the subject site. The Miss Dig service coordinated public utility providers and requested that the individual service provider identify and locate the active, public, underground utilities, including: natural gas, telephone, electric, water, municipal sanitary and municipal storm sewer systems. The Miss Dig staking ticket number for the staking request was B92762662.

DEC contracted Diamond Concrete Sawing, Inc. of Grand Rapids, Michigan to conduct a Ground Penetrating Radar (GPR) Survey of the exterior portions of the subject property. The purpose of the GPR Survey was to assess the subject site, using geophysical, non-intrusive methods, to determine whether abandoned cylindrical underground storage tanks (USTs) existed at the subject property. Based on the results of the survey, no anomalies consistent with abandoned USTs were identified during the GPR Survey. The findings and limits of the GPR Survey are outlined in Section 3.1 of this report. The limits of the Ground Penetrating Radar Survey are provided as Figure 3 - Ground Penetrating Radar Survey/Sample Detail Diagram.

Rosendall Well Drilling, LLC of Grand Rapids, Michigan and DEC conducted a total of six soil borings at the subject site. The soil borings were advanced with an earthprobe sampling device. A total of two discrete soil samples were collected and submitted for chemical analysis from the soil borings. Six soil borings were converted into temporary well

points for groundwater sampling. A total of six representative groundwater samples were collected from the temporary monitor wells and submitted for chemical analysis from the subject site. The soil boring locations were determined based on the RECs locations and field observations. The samples were collected from the subject site using Michigan Department of Environment, Great Lakes and Energy (EGLE), formerly known as the Michigan Department of Environmental Quality (MDEQ) approved collection methodology. The sampling equipment “contact” surfaces were decontaminated using a non-phosphate, soapy rinseate and water rinse. An equipment blank sample was prepared during the sampling event for quality assurance and quality control (QA/QC) purposes.

A field scientist profiled and visually classified the soils encountered during the soil borings. A photoionization detector (PID) was utilized to screen select soil samples for the presence of volatile organic compounds (VOCs). The PID results are presented in Appendix A - Soil Boring Logs. The sample collection intervals and handling methodologies are described in Section 3.0 of this report.

The soil and groundwater samples were submitted to an independent laboratory for chemical analysis following standard chain-of-custody procedures. The soil and/or groundwater samples were chemically analyzed for the Polynuclear Aromatic Hydrocarbons (PNAs) via EPA Method 8270 (8270-Standard Parameter PNA List), the Standard VOC List via EPA Method 8260 and/or certain inorganic metallic constituents: cadmium, chromium (total) and/or lead. The QA/QC sample was chemically analyzed for the 8270-Standard Parameter PNA List.

3.0 SUBSURFACE INVESTIGATION

3.1 Ground Penetrating Radar Survey Results

On October 10, 2019, Diamond Concrete Sawing (DCS) conducted a Ground Penetrating Radar (GPR) Survey at the subject site. The purpose of the GPR Survey was to determine whether abandoned underground storage tanks (USTs) existed at the subject site.

Based on the Phase I ESA, a gasoline filling station was historically operated at the eastern adjoining property. The Michigan Department of Licensing and Regulatory Affairs, Storage Tank Division (STD) records indicated three USTs were operated by the gasoline filling station. The USTs included a 2,000-gallon gasoline UST, a 1,000-gallon gasoline UST and a 500-gallon gasoline UST. Based on the site observations and interviews, the USTs were installed along the western side of the former filling station, on the northeastern portion of the subject site. The USTs were installed in the mid-1970's and were removed in the mid-1980's or late 1980's. Although the filling station owner at that time (Nicholas Greiner) indicated the USTs were removed, no documentation or confirmation soil/groundwater testing was conducted. Due to the lack of documentation and sampling, the potential existed for abandoned USTs associated with the former gasoline filling station to be present at the subject site.

The GPR Survey was conducted using a Leica DS2000 Utility Detection Radar equipped with a SIR 4000 processing unit and a 250 and 750 Megahertz (MHZ) dual frequency antenna. The GPR offered a means to detect buried objects that are not detectable by other methods. In addition to the ability to locate metallic objects, the GPR was able to identify and detect nonmetallic objects. The system transmits radar pulses into the subsurface, then receives and processes the reflected energy. Through advanced processing technology, the system calibrates to the dielectric constant of the surrounding native material. When a signal is reflected from a material having a different dielectric constant, the signal is received as an anomaly. The depth of the anomaly can also be interpreted by the equipment.

The GPR Survey was conducted on the exterior areas of the subject site. An interval grid pattern with multiple scans was utilized to increase the accuracy of the GPR Survey where possible. The limits of the survey did not include the entire site due to obstructions and features that prohibited scanning.

During the GPR Survey, no anomalies were identified that appeared consistent with abandoned underground storage tanks.

3.2 Phase II Environmental Site Assessment - Field Sampling Activities

On October 15, 2019, Dixon Environmental Consulting, Inc. (DEC) and Rosendall Well Drilling, LLC conducted the soil borings at the subject site using an earthprobe sampling device. The specific soil boring locations and soil boring logs are included on Figure 3 and Appendix A, respectively.

The soil boring, *SB-1*, was conducted at the northeastern portion of the property to assess the former underground storage tank (UST) area. The borehole was located 12 feet southwest of the northeastern property corner stake and 14 feet south of the northern property boundary. From 0 to 1.0 feet bgl, moist, gray to brown, fine to coarse sand and gravel was encountered. Moist, brown, fine sand was encountered from 1.0 to 9.0 feet bgl. From 9.0 to 11.5 feet bgl, moist, brown, clay was encountered. A soil sample, **SB-1 (11.0-11.5')**, was collected from 11.0 to 11.5 feet bgl and submitted to the laboratory for chemical analysis. Saturated, brown, fine sand was encountered from 11.5 to 12.0 feet bgl. From 12.0 to 12.5 feet bgl, saturated, black fine sand was encountered. A sheen was observed from 12.0 to 12.5 feet bgl. Saturated, brown, fine sand was encountered from 12.5 to 13.5 feet bgl. From 13.5 to 14.5 feet bgl, saturated, black, fine sand was encountered. Saturated, gray to brown, fine sand was encountered from 14.5 to 15.0 feet bgl. A petroleum odor was encountered from 11.5 to 15.0 feet bgl. During the photoionization device (PID) screening process, volatile organic compound (VOC) concentrations ranging from 1 to over 1,000 parts per million (ppm) were encountered from 11.5 to 15.0 feet bgl. The PID screening results and intervals are presented in Appendix A. The borehole was terminated at 15.0 feet bgl and a temporary well screen was installed from 9.8 to 14.8 feet bgl. The static groundwater elevation was measured at 12.6 feet bgl. A groundwater sample, **SB-1 (12.6')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The soil boring, *SB-2*, was conducted at the northeastern portion of the property to assess the former UST area. The borehole was located 32 feet southwest of the northeastern property corner stake and 6 feet south of the northern property boundary. From 0 to 1.0 feet bgl, moist, gray to brown, fine to coarse sand and gravel was encountered. Moist, brown, fine sand was encountered from 1.0 to 9.0 feet bgl. From 9.0 to 11.5 feet bgl, moist, brown, clay was encountered. A soil sample, **SB-2 (11.0-11.5')**, was collected from 11.0 to 11.5 feet bgl and submitted to the laboratory for chemical analysis. Saturated, brown, fine sand was encountered from 11.5 to 12.5 feet bgl. From 12.5 to 13.5 feet bgl, saturated, gray to black fine sand was encountered. Saturated, brown, fine sand was encountered from 13.5 to 15.0 feet bgl. A petroleum odor was encountered from 11.5 to 15.0 feet bgl. During the PID screening process, VOC concentrations ranging from 1 to 18 ppm were encountered from 12.0 to 15.0 feet bgl. The PID screening results and intervals

are presented in Appendix A. The borehole was terminated at 15.0 feet bgl and a temporary well screen was installed from 9.8 to 14.8 feet bgl. The static groundwater elevation was measured at 12.8 feet bgl. A groundwater sample, **SB-2 (12.8')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The soil boring, *SB-3*, was conducted at the northeastern portion of the property to assess the former UST area. The borehole was located 29 feet southwest of the northeastern property corner stake and 22 feet south of the northern property boundary. From 0 to 1.0 feet bgl, moist, gray to brown, fine to coarse sand and gravel was encountered. Moist, brown, fine sand was encountered from 1.0 to 9.0 feet bgl. From 9.0 to 11.5 feet bgl, moist, brown, clay was encountered. Saturated, brown, fine sand was encountered from 11.5 to 15.0 feet bgl. A petroleum odor was encountered from 13.0 to 15.0 feet bgl. During the PID screening process, a VOC concentration of 1 ppm was encountered from 14.0 to 14.5 feet bgl. The PID screening results and intervals are presented in Appendix A. The borehole was terminated at 15.0 feet bgl and a temporary well screen was installed from 9.6 to 14.6 feet bgl. The static groundwater elevation was measured at 12.7 feet bgl. A groundwater sample, **SB-3 (12.7')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The soil boring, *SB-4*, was conducted at the eastern portion of the property to assess groundwater. The borehole was located 70 feet southwest of the northeastern property corner and 6 feet west of the eastern property boundary. From 0 to 1.0 feet bgl, moist, gray to brown, fine to coarse sand and gravel was encountered. Moist, brown, fine sand was encountered from 1.0 to 5.5 feet bgl. From 5.5 to 9.0 feet bgl, moist, brown, clay was encountered. Moist to saturated, brown, fine to coarse sand was encountered from 9.0 to 15.0 feet bgl. The borehole was terminated at 15.0 feet bgl and a temporary well screen was installed from 9.6 to 14.6 feet bgl. The static groundwater elevation was measured at 11.9 feet bgl. A groundwater sample, **SB-4 (11.9')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The soil boring, *SB-5*, was conducted at the southwestern portion of the property to assess groundwater. The borehole was located 26 feet northeast of the southeastern vacant restaurant building corner and 10 feet east of the eastern exterior restaurant building wall. From 0 to 3 inches bgl, asphalt was encountered. Moist, brown, fine sand was encountered from 3 inches to 3.5 feet bgl. From 3.5 to 4.0 feet bgl, moist, brown, clay was encountered. Moist, brown, fine sand was encountered from 4.0 to 6.0 feet bgl. From 6.0 to 7.5 feet bgl, moist, brown, clay was encountered. Moist to saturated, brown, fine to coarse sand was encountered from 7.5 to 15.0 feet bgl. The borehole was terminated at 15.0 feet bgl and a temporary well screen was installed from 9.5 to 14.5 feet bgl. The static groundwater

elevation was measured at 11.5 feet bgl. A groundwater sample, **SB-5 (11.5')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The soil boring, *SB-6*, was conducted at the northwestern portion of the property to assess groundwater. The borehole was located 11 feet southeast of the northeastern vacant restaurant building corner and 4 feet east of the eastern exterior restaurant building wall. From 0 to 4 inches bgl, concrete was encountered. Moist, brown, fine sand was encountered from 4 inches to 7.5 feet bgl. From 7.5 to 10.0 feet bgl, moist, brown, clay was encountered. Moist to saturated, brown, fine to coarse sand was encountered from 10.0 to 16.0 feet bgl. The borehole was terminated at 16.0 feet bgl and a temporary well screen was installed from 10.8 to 15.8 feet bgl. The static groundwater elevation was measured at 13.2 feet bgl. A groundwater sample, **SB-6 (13.2')**, was collected from the temporary monitor well and submitted to the laboratory for chemical analysis.

The temporary monitor wells were constructed by inserting a 5-foot long, one-inch diameter, 10-slot PVC well screen(s) within the borehole after the boring rods were removed. One-inch diameter PVC riser pipe connected to the well screen and extended the well above grade limit. The groundwater sample was collected utilizing a variable speed, peristaltic, groundwater sampling pump and new polyethylene sampling tubing.

The groundwater quality parameters, including temperature, conductivity, dissolved oxygen levels, pH, and turbidity were monitored throughout the “low-flow” sampling process utilizing a YSI 556 multiparameter meter with a flow cell and a Hach turbidity meter. The groundwater was purged until a minimum of four consecutive readings at approximately 5-minute intervals indicated that the parameters had stabilized. The groundwater quality parameter readings are summarized in Appendix C.

DEC utilized new, powderless, latex gloves for the collection of each individual sample. The soil samples were collected and placed into new, four-ounce, glass jars with bonded, Teflon™ lined, polypropylene closure lids. VOC soil samples were collected in accordance with the EPA Method 5035 (Methanol Preservation Techniques). The groundwater samples were preserved in accordance with the Michigan Department of Environment, Great Lakes and Energy (EGLE), formerly known as the Michigan Department of Environmental Quality (MDEQ) Application of Target Detection Limits and Designated Analytical Methods Resource Materials document.

The soil and groundwater samples were placed in a chilled cooler and transported to Bio-Chem Laboratories, Inc. of Grand Rapids, Michigan (Bio-Chem) for chemical analysis

under standard chain-of-custody procedures. The samples were delivered on October 16, 2019. DEC requested standard (seven business days) turn around for the chemical analysis described in the scope of work section of this report. The results are summarized in Section 3.3 and 3.4 of this report.

After the samples were collected, the sampling equipment including the temporary monitor well was removed from the boreholes. The borehole annulus was subsequently backfilled with soil cuttings and/or bentonite pellets. The surface of each borehole was restored to closely match the original site conditions.

3.3 Soil Analytical Results Summary

The chemical analysis results for the soil samples were received from Bio-Chem on October 21, 2019 via e-mail. Summary tables comparing the soil analytical results to the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the EGLE/MDEQ Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity (MDEQ Cleanup Requirements) are included as a portion of Appendix B - Soil and Groundwater Analytical Results Tables. The laboratory analytical reports are included as Appendix D of this report. In addition, a summary of the detectable soil analytical results compared to the GRCC is included as Figure 3. A summary of the soil analytical data is included below.

3.3.1 Inorganic Metallic Constituents

The lead (total) chemical analysis results for the soil samples collected from the subject site identified concentrations of lead above the laboratory method detection limit (MDL), however, less than the GRCC.

3.3.2 Polynuclear Aromatic Hydrocarbons

The 8270-Standard Parameter PNA chemical analysis results for the soil samples collected from the subject site did not exceed the MDL or the GRCC.

3.3.3 Volatile Organic Compounds

The 8260-Standard Volatile Organic Compound (VOC) chemical analysis results for the soil samples collected from the subject site did not exceed the MDL or the GRCC.

3.4 Groundwater Analytical Results Summary

The chemical analysis results for the groundwater samples were received from Bio-Chem on October 21, 2019 via e-mail. Summary tables comparing the groundwater analytical results to the GRCC are included as Appendix B - Soil and Groundwater Analytical Results Tables. The Laboratory Analytical Reports are included as Appendix D of this report. In addition, a summary of the detectable groundwater analytical results compared to the GRCC as outlined in the MDEQ Cleanup Requirements is included as Figure 3. A summary of the groundwater analytical data is included below.

3.4.1 Inorganic Metallic Constituents

The cadmium, chromium (total) and lead chemical analysis results for the groundwater samples collected from the subject site identified no concentrations of cadmium, chromium (total) or lead in excess of the MDL or the GRCC.

3.4.2 Polynuclear Aromatic Hydrocarbons

The 8270-Standard Parameter PNA chemical analysis results for the groundwater samples collected from the subject site did not exceed the MDL or the GRCC.

3.4.3 Volatile Organic Compounds

The 8260-Standard Volatile Organic Compound (VOC) chemical analysis results for groundwater samples collected from the subject site identified a single concentration of **1,2,4-trimethylbenzene** in excess of the GRCC. A single concentration of 1,3,5-trimethylbenzene was identified above the MDL, however, less than the GRCC. The remaining hazardous substance concentrations were not encountered above the MDL or the GRCC.

3.5 Quality Assurance/Quality Control Data Summary

For quality assurance and quality control (QA/QC) documentation, DEC prepared an equipment blank sample on October 15, 2019. The equipment blank sample, **EB-1 (10-15-19)**, was collected by rinsing de-ionized water through the decontaminated soil boring equipment. The equipment blank sample was analyzed for the presence of the 8270-Standard Parameter PNA List. Based on the review of the QA/QC results, no detectable concentrations of the 8270-Standard Parameter PNA List were encountered above the MDL. The results verify that the field decontamination procedures, background conditions,

*Phase II Environmental Site Assessment
Commercial Property
227 East Main Street
Hart, Michigan
DEC Project Number: 19-08-008B
October 22, 2019*

sample handling and the de-ionized water rinse did not significantly jeopardize the integrity of the field sampling, handling or chemical analysis. The QA/QC sample chemical analysis results are summarized Appendix B - Soil and Groundwater Analytical Results Tables.

4.0 CONCLUSIONS

Dixon Environmental Consulting, Inc. (DEC) was retained to provide environmental services relating to a Phase II Environmental Site Assessment (ESA) for the Commercial Property located at 227 East Main Street, Hart, Oceana County, Michigan. The Phase II ESA assessed the subsurface conditions near the recognized environmental conditions (RECs) to determine whether the site was currently a “facility” as defined in the Administrative Rules for Part 201 Environmental Remediation of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended, (Part 201).

The Phase II ESA consisted of conducting a ground penetrating radar (GPR) survey to assess the property for abandoned underground storage tanks (USTs), soil borings and soil/groundwater sampling activities. A total of six soil borings were conducted at the subject site. During the soil borings, DEC collected two discrete soil samples for chemical analysis and converted six soil borings into temporary well points to collect representative groundwater samples. A total of six representative groundwater samples were also collected and chemically analyzed during the Phase II ESA. The samples were submitted to an independent laboratory and chemically analyzed for specific parameters relating to the RECs. Based on the results of the Phase II ESA investigation, the following conclusions were derived:

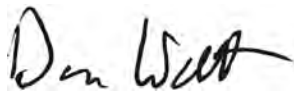
- Based on the GPR Survey results of the exterior portions of the subject property, no anomalies were identified at the subject site that appeared consistent with abandoned underground storage tanks.
- Based on the 8260-Volatile Organic Compounds (VOCs) chemical analysis results for the soil and/or groundwater samples collected from the subject site, a single concentration of **1,2,4-trimethylbenzene** was encountered in the groundwater above the GRCC. A single concentration of 1,3,5-trimethylbenzene was encountered in the groundwater above the MDL, however, less than the GRCC. The remaining hazardous substance concentrations were not encountered above the MDL or the GRCC. No VOC concentrations were encountered in the soil above the MDL or the GRCC.
- Based on the inorganic metallic constituent chemical analysis results for certain soil and/or groundwater samples collected from the subject site, no concentrations of inorganic metallic constituents were encountered above the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the EGLE/MDEQ Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity

(MDEQ Cleanup Requirements). Concentrations of lead were encountered in the soil above the laboratory method detection limit (MDL), however, less than the GRCC. No concentrations of inorganic metallic constituents were encountered in the groundwater above the MDL or the GRCC.

- Based on the 8270-Standard Parameter Polynuclear Aromatic Hydrocarbon (PNA) chemical analysis results for the soil and/or groundwater samples collected from the subject site, no concentrations of PNAs were encountered above the MDL or the GRCC.

In summary of the soil and groundwater sampling activities, a single concentration of **1,2,4-trimethylbenzene** was encountered in a select groundwater sample exceeding the GRCC as defined in the MDEQ Cleanup Requirements. Based on these results, the subject site qualifies as a “facility” as defined in Part 201 and a prospective owner/operator would be eligible for a Baseline Environmental Assessment.

**REPORT PREPARED BY:
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Daniel M. Watt
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James E. Dixon, P.E.
Principal Engineer

5.0 REFERENCES

Phase I Environmental Site Assessment, Commercial Property, 227 East Main Street, Hart, Oceana County, Michigan, completed by Dixon Environmental Consulting, Inc. on October 1, 2019.

Phase II Environmental Site Assessment Workplan, Commercial Property, 227 East Main Street, Hart, Oceana County, Michigan completed by Dixon Environmental Consulting, Inc. on October 1, 2019.

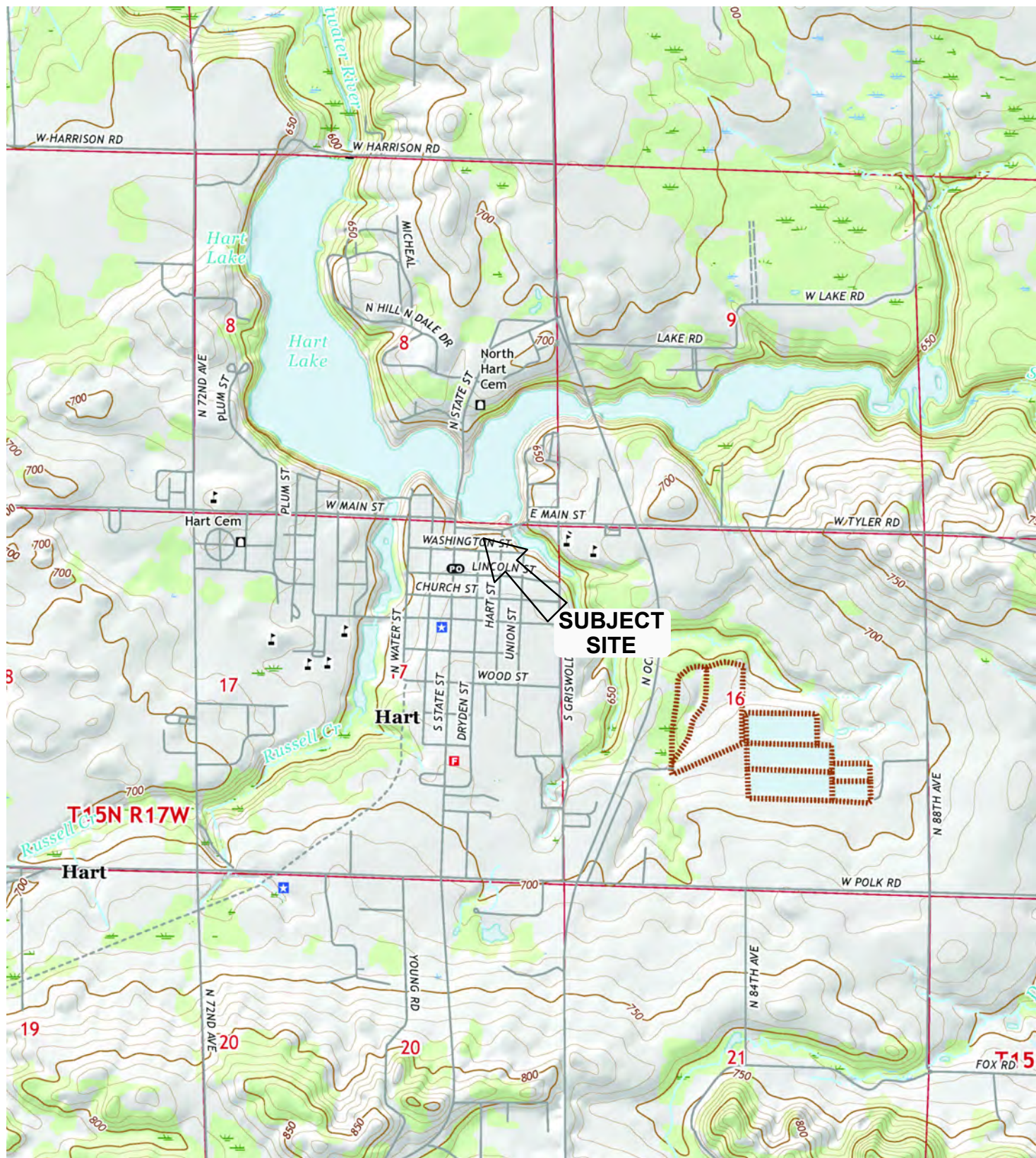
Administrative Rules for Part 201 of the Natural Resources and Environmental Protection Act 1994 PA 451, as amended.

Michigan Department of Environmental Quality, Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity, last updated June 25, 2018.

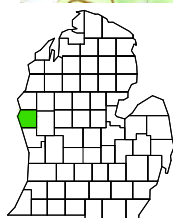
Michigan Department of Environmental Quality, Remediation and Redevelopment Division Application of Target Detection Limits and Designated Analytical Methods Resource Materials dated March 10, 2016.

FIGURES

**PROJECT LOCATION MAP
SITE VICINITY DIAGRAM
GROUND PENETRATING RADAR SURVEY/
SAMPLE DETAIL DIAGRAM**



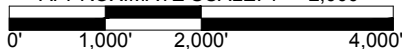
USGS 7.5 MINUTE QUADRANGLE MAPS: HART, MICHIGAN AND MEARS, MICHIGAN



OCEANA COUNTY, MICHIGAN

PROJECT NUMBER: 19-08-008B DATE: 10/22/2019

APPROXIMATE SCALE: 1" = 2,000'

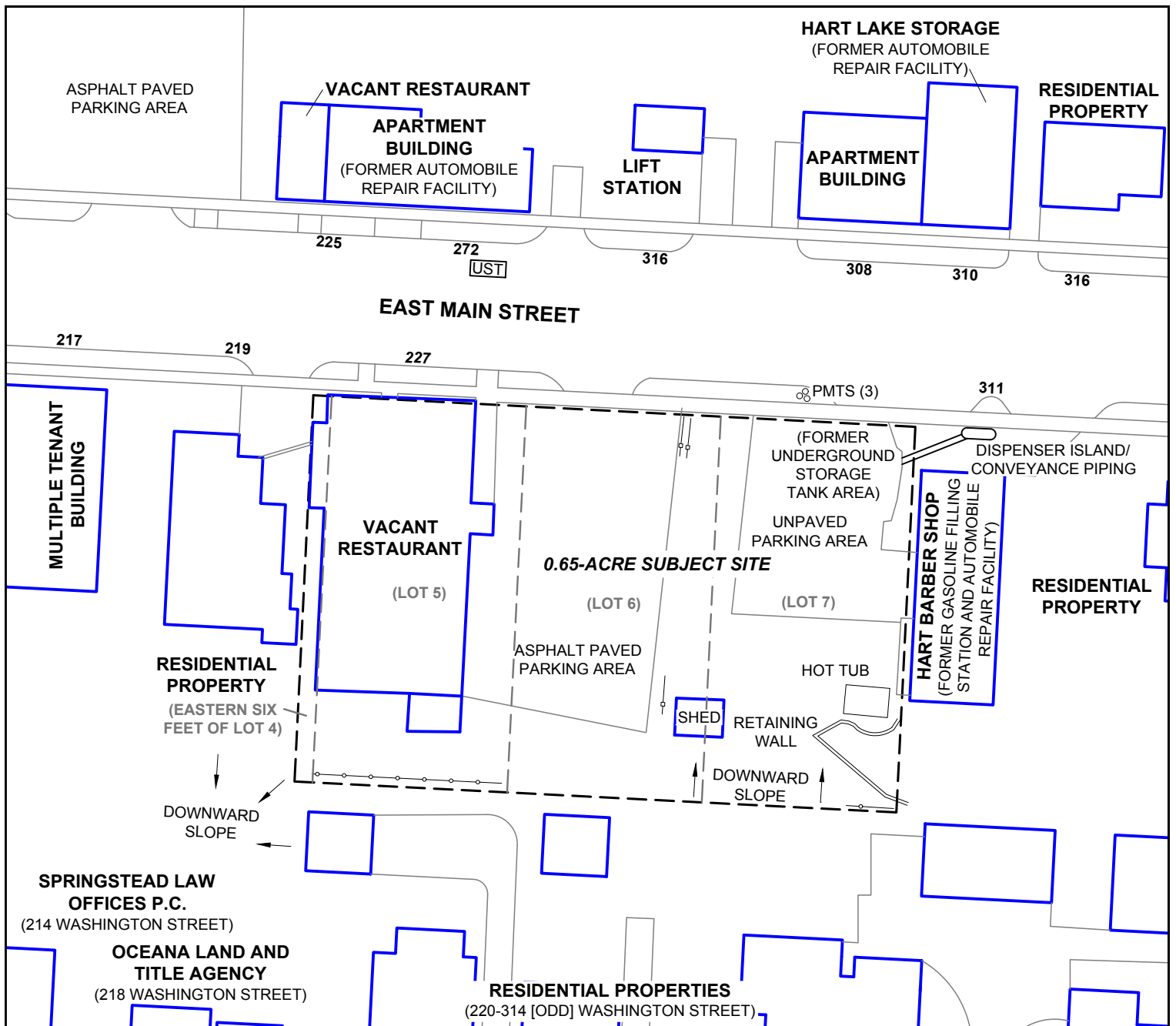


PHASE II ENVIRONMENTAL SITE ASSESSMENT

FIGURE 1 - PROJECT LOCATION MAP



COMMERCIAL PROPERTY
227 EAST MAIN STREET
HART, MICHIGAN



LEGEND

- SUBJECT SITE BOUNDARY
- LOT LINE
- BUILDING STRUCTURE
- GUARD RAIL
- FENCE
- UST FORMER UNDERGROUND STORAGE TANK LOCATION

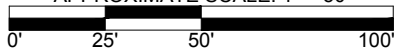
DIAGRAM NOTES:

THIS DIAGRAM IS NOT A LEGAL SURVEY.

THE DETAILS DEPICTED ON THIS DIAGRAM ARE APPROXIMATE LOCATIONS BASED ON THE AVAILABLE AERIAL PHOTOGRAPHS, STANDARD HISTORICAL RESOURCES AND/OR FIELD OBSERVATIONS.

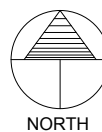
PROJECT NUMBER: 19-08-008B DATE: 10/22/2019

APPROXIMATE SCALE: 1" = 50'

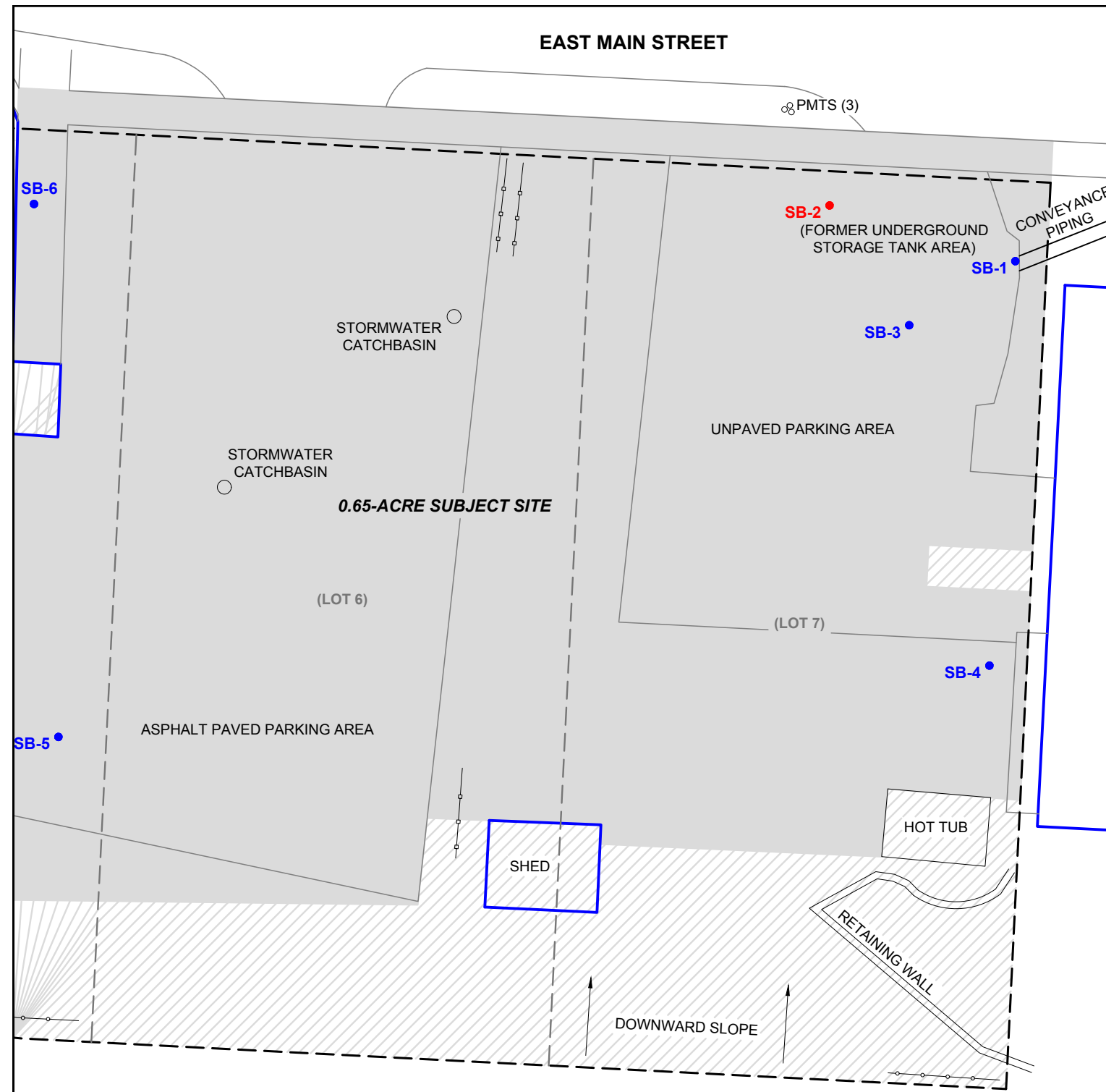


PHASE II ENVIRONMENTAL SITE ASSESSMENT

FIGURE 2 - SITE VICINITY/GPR SURVEY DIAGRAM



COMMERCIAL PROPERTY
227 EAST MAIN STREET
HART, MICHIGAN



GROUNDWATER ANALYTICAL RESULTS TABLE								
CONSTITUENT	CAS NUMBER	SB-1 (12.6')	SB-2 (12.8')	SB-3 (12.7')	SB-4 (11.9')	SB-5 (11.5')	SB-6 (13.2')	GRCC
DATE SAMPLED		10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	
INORGANIC METALLIC CONSTITUENTS (µg/L)								
CADMIUM	7440439	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5 ^B
CHROMIUM (TOTAL)	VARIES	< 10	< 10	< 10	< 10	< 10	< 10	11 ^B
LEAD	7439921	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	4.0 ^A
POLYNUCLEAR AROMATIC HYDROCARBONS (PNAS) (µg/L)								
PNAS	-	BDL	BDL	BDL	BDL	BDL	BDL	-
VOLATILE ORGANIC COMPOUNDS (VOCS) (µg/L)								
1,2,4-TRIMETHYLBENZENE	95636	< 1.0	37	< 1.0	< 1.0	< 1.0	< 1.0	17 ^B
1,3,5-TRIMETHYLBENZENE	108678	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	45 ^B
REMAINING VOCS	-	BDL	BDL	BDL	BDL	BDL	BDL	-

SOIL ANALYTICAL RESULTS TABLE				
CONSTITUENT	CAS NUMBER	SB-1 (11.0-11.5')	SB-2 (11.0-11.5')	GRCC
DATE SAMPLED		10/15/19	10/15/19	
INORGANIC METALLIC CONSTITUENT (µg/Kg)				
LEAD	7439921	5,000	3,600	400,000 ^C
POLYNUCLEAR AROMATIC HYDROCARBONS (PNAS) (µg/Kg)				
PNAS	-	BDL	BDL	-
VOLATILE ORGANIC COMPOUNDS (VOCS) (µg/Kg)				
VOCS	-	BDL	BDL	-

TABLE NOTES:

GRCC - RESIDENTIAL PART 201 GENERIC CLEANUP CRITERIA AS OUTLINED IN THE REMEDIATION AND REDEVELOPMENT DIVISION CLEANUP CRITERIA REQUIREMENTS FOR RESPONSE ACTIVITY TABLES EFFECTIVE JUNE 25, 2018.

SAMPLE DATA IN RED EXCEEDS THE CURRENT GRCC.

(µg/Kg) - MICROGRAMS PER KILOGRAM.

(µg/L) - MICROGRAMS PER LITER.

BDL - BELOW LABORATORY METHOD DETECTION LIMITS.

A - DRINKING WATER CRITERIA.

B - GROUNDWATER SURFACE WATER INTERFACE CRITERIA.

C - DIRECT CONTACT CRITERIA.

LEGEND

--- SUBJECT SITE BOUNDARY

--- LOT LINE

--- BUILDING STRUCTURE

--- GUARD RAIL

--- FENCE

--- ANALYTICAL RESULTS DID NOT EXCEED PART 201 GENERIC CRITERIA

--- ANALYTICAL RESULTS EXCEEDED PART 201 GENERIC CRITERIA

--- SURVEY POINT

--- ANOMALIES (FORMER UNDERGROUND STORAGE TANK)

DIAGRAM NOTES:

THIS DIAGRAM IS NOT A LEGAL SURVEY.

THE DETAILS DEPICTED ON THIS DIAGRAM ARE APPROXIMATE LOCATIONS BASED ON THE AVAILABLE AERIAL PHOTOGRAPHS, STANDARD HISTORICAL RESOURCES AND/OR FIELD OBSERVATIONS.

PROJECT NUMBER: 19-08-008B | DATE: 10/22/2019

APPROXIMATE SCALE: 1" = 20'



PHASE II ENVIRONMENTAL SITE ASSESSMENT

FIGURE 3 - GROUND PENETRATING RADAR SURVEY/ SAMPLE DETAIL DIAGRAM

COMMERCIAL PROPERTY
227 EAST MAIN STREET
HART, MICHIGAN

APPENDIX A
SOIL BORING LOGS

SOIL BORING LOG

SB-1



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE NORTHEASTERN PORTION OF THE PROPERTY TO ASSESS THE FORMER UNDERGROUND STORAGE TANK AREA. THE BOREHOLE WAS LOCATED 12 FEET SOUTHWEST OF THE NORTHEASTERN PROPERTY CORNER STAKE AND 14 FEET SOUTH OF THE NORTHERN PROPERTY BOUNDARY.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 11.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 9.8 TO 14.8 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS <u> </u>	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 12.6 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4 ") SAND - COARSE (NO 4 TO NO 10) SILT PI<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB <u> </u> PERISTALTIC PUMP <u> </u>

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)	
2.0	0-5'	5'		MOIST, GRAY TO BROWN, FINE TO COARSE SAND AND GRAVEL (GP)		0	
4.0						0	
6.0	5-10'	5'		MOIST, BROWN, FINE SAND (SW)		0	
8.0						0	
10.0							0
12.0	10-15'	5'		MOIST, BROWN, CLAY	Temporary well screen installed from 9.8 to 14.8 feet bgl.	0	
					SATURATED, BROWN, FINE SAND (SW)	Soil sample collected from 11.0 to 11.5 feet bgl.	0
					SATURATED, BLACK, FINE SAND (SW)	Petroleum odor encountered from 11.5 to 15.0 feet bgl.	1
					SATURATED, BROWN, FINE SAND (SW)	Sheen observed from 12.0 to 12.5 feet bgl.	674
14.0					SATURATED, BLACK FINE SAND (SW)	Groundwater sample collected from 12.6 feet bgl.	175
				SATURATED, GRAY TO BROWN, FINE SAND (SW)		> 1,000	
16.0				END OF BORING AT 15.0 FEET BGL	Soil boring terminated at 15.0 feet bgl, temporary sampling equipment removed, surface conditions restored.	53	

SOIL BORING LOG

SB-2



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE NORTHEASTERN PORTION OF THE PROPERTY TO ASSESS THE FORMER UNDERGROUND STORAGE TANK AREA. THE BOREHOLE WAS LOCATED 32 FEET SOUTHWEST OF THE NORTHEASTERN PROPERTY CORNER STAKE AND 6 FEET SOUTH OF THE NORTHERN PROPERTY BOUNDARY.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 11.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 9.8 TO 14.8 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS ___	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 12.8 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4") SAND - COARSE (NO 4 TO NO 10) SILT PI<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB ___ PERISTALTIC PUMP ___

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)
2.0	0-5'	5'		MOIST, GRAY TO BROWN, FINE TO COARSE SAND AND GRAVEL (GP)	Temporary well screen installed from 9.8 to 14.8 feet bgl. Soil sample collected from 11.0 to 11.5 feet bgl. ▼ Petroleum odor encountered from 11.5 to 15.0 feet bgl. Groundwater sample collected from 12.8 feet bgl. Soil boring terminated at 15.0 feet bgl. temporary sampling equipment removed, surface conditions restored.	0
4.0			0			
6.0	5-10'	5'		MOIST, BROWN, FINE SAND (SW)		0
8.0				0		
10.0				0		
12.0				0		
14.0	10-15'	5'		MOIST, BROWN, CLAY (CL)		1
14.0			16			
14.0				SATURATED, BROWN, FINE SAND (SW)		18
14.0				SATURATED, GRAY TO BLACK, FINE SAND (SW)		8
14.0				SATURATED, BROWN, FINE SAND (SW)	4	
16.0				END OF BORING AT 15.0 FEET BGL	1	

SOIL BORING LOG

SB-3



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE NORTHEASTERN PORTION OF THE PROPERTY TO ASSESS THE FORMER UNDERGROUND STORAGE TANK AREA. THE BOREHOLE WAS LOCATED 29 FEET SOUTHWEST OF THE NORTHEASTERN PROPERTY CORNER STAKE AND 22 FEET SOUTH OF THE NORTHERN PROPERTY BOUNDARY.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 11.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 9.6 TO 14.6 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS ___	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 12.7 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4") SAND - COARSE (NO 4 TO NO 10) SILT PI<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB ___ PERISTALTIC PUMP ___

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)
2.0	0-5'	5'		MOIST, GRAY TO BROWN, FINE TO COARSE SAND AND GRAVEL (GP)		0
4.0						0
6.0	5-10'	5'		MOIST, BROWN, FINE SAND (SW)		0
8.0						0
10.0	10-15'	5'		MOIST, BROWN, CLAY (CL)	Temporary well screen installed from 9.6 to 14.6 feet bgl.	0
12.0						▼ Petroleum odor encountered from 13.0 to 15.0 feet bgl.
14.0				SATURATED, BROWN, FINE SAND (SW)	Groundwater sample collected from 12.7 feet bgl.	0
16.0				END OF BORING AT 15.0 FEET BGL	Soil boring terminated at 15.0 feet bgl, temporary sampling equipment removed, surface conditions restored.	1

SOIL BORING LOG

SB-4



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE EASTERN PORTION OF THE PROPERTY TO ASSESS GROUNDWATER. THE BOREHOLE WAS LOCATED 70 FEET SOUTHWEST OF THE NORTHEASTERN PROPERTY CORNER AND 6 FEET WEST OF THE EASTERN PROPERTY BOUNDARY.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 10.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 9.6 TO 14.6 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS ___	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 11.9 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4 ") SAND - COARSE (NO 4 TO NO 10) SILT PI<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB ___ PERISTALTIC PUMP ___

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)	
2.0	0-5'	5'		MOIST, GRAY TO BROWN, FINE TO COARSE SAND AND GRAVEL (GP)	Temporary well screen installed from 9.6 to 14.6 feet bgl. ▼ Groundwater sample collected from 11.9 feet bgl. Soil boring terminated at 15.0 feet bgl, temporary sampling equipment removed, surface conditions restored.	0	
4.0				MOIST, BROWN, FINE SAND (SW)		0	
6.0	5-10'	5'		MOIST, BROWN, CLAY (CL)		0	
8.0				0			
10.0				MOIST TO SATURATED, BROWN, FINE TO COARSE SAND (SW)		0	
12.0	10-15'	5'		0			
14.0				0			
16.0				0			
16.0				END OF BORING AT 15.0 FEET BGL			

SOIL BORING LOG

SB-5



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE SOUTHWESTERN PORTION OF THE PROPERTY TO ASSESS GROUNDWATER. THE BOREHOLE WAS LOCATED 26 FEET NORTHEAST OF THE SOUTHEASTERN VACANT RESTAURANT BUILDING CORNER AND 10 FEET EAST OF THE EASTERN EXTERIOR RESTAURANT BUILDING WALL.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 10.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 9.5 TO 14.5 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS ___	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 11.5 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4 ") SAND - COARSE (NO 4 TO NO 10) SILT P<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB ___ PERISTALTIC PUMP ___

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)	
2.0	0-5'	5'		ASPHALT (0 TO 3 INCHES)	Temporary well screen installed from 9.6 to 14.6 feet bgl. ▼ Groundwater sample collected from 11.5 feet bgl. Soil boring terminated at 15.0 feet bgl, temporary sampling equipment removed, surface conditions restored.	0	
4.0				MOIST, BROWN, FINE SAND (SW)		0	
6.0	5-10'	5'		MOIST, BROWN, CLAY (CL)		0	
8.0				MOIST, BROWN, FINE SAND (SW)		0	
10.0			MOIST, BROWN, CLAY (CL)	0			
12.0			MOIST TO SATURATED, BROWN, FINE TO COARSE SAND (SW)	0			
14.0	10-15'	5'				0	
16.0				END OF BORING AT 15.0 FEET BGL			0

SOIL BORING LOG

SB-6



PROJECT: Phase II Environmental Site Assessment PROJECT NUMBER: 19-08-008B

ADDRESS: 227 East Main Street
Hart, Michigan

CLIENT: City of Hart

BORING LOCATION: AT THE NORTHWESTERN PORTION OF THE PROPERTY TO ASSESS GROUNDWATER. THE BOREHOLE WAS LOCATED 11 FEET SOUTHEAST OF THE NORTHEASTERN VACANT RESTAURANT BUILDING CORNER AND 4 FEET EAST OF THE EASTERN EXTERIOR RESTAURANT BUILDING WALL.

ELEVATION: 0 FEET BELOW GRADE LIMIT (BGL)	DATE DRILLED: OCTOBER 15, 2019	GROUNDWATER ENCOUNTERED: 10.5 FEET BGL
BORING DEPTH: 15.0 FEET BGL	CONTRACTOR: ROSENDALL WELL DRILLING, LLC	WELL TYPE: PVC DIAMETER: 1 INCH
DRILL TYPE: EARTHPROBE SAMPLING DEVICE	DRILLER: JEFF ROSENDALL	SCREEN LENGTH: 5.0 FEET SLOT NO. 10
BACKFILLING METHOD:	FIELD SCIENTIST: DANIEL WATT	SCREEN INTERVAL: 10.8 TO 15.8 FEET BGL
SOIL CUTTINGS <u>X</u> BENTONITE CHIPS <u> </u>	REVIEWED BY: JAMES DIXON	STATIC GROUNDWATER MEASURED: 11.5 FEET BGL
SOIL TYPE: COARSE GRAINED (COHESIONLESS) FINE GRAINED (COHESIVE) BOULDER (>12") GRAVEL - COARSE (3" TO 3/4") SAND - COARSE (NO 4 TO NO 10) SILT PI<1 COBBLES (12" TO 3") GRAVEL - FINE (3/4" TO NO 4) SAND - MEDIUM (NO 10 TO NO 40) CLAYEY SILT P 1<PI<5 SAND - FINE (NO 40 TO NO 200) SILT AND CLAY 5<PI<10 CLAY AND SILT 10<PI<20 CLAY PI>40 SILTY CLAY 20<PI<40		GROUNDWATER SAMPLE COLLECTION METHOD: LOW FLOW <u>X</u> GRAB <u> </u> PERISTALTIC PUMP <u> </u>

MINOR COMPONENT: TRACE 1-10%, LITTLE 10-20%, SOME 20-35%, AND 35-50% PID = PHOTOIONIZATION DETECTOR ▼ = WATER TABLE /// - WELL SCREEN INTERVAL

Depth (feet)	Sample Tube Interval	Rec (feet)	Graphic	Description (USCS Classification)	Sample Interval and Remarks	PID Results (ppm)
2.0	0-5'	5'		CONCRETE (0 TO 4 INCHES)	Temporary well screen installed from 10.8 to 15.8 feet bgl. ▼ Groundwater sample collected from 13.2 feet bgl. Soil boring terminated at 15.0 feet bgl, temporary sampling equipment removed, surface conditions restored.	0
4.0				MOIST, BROWN, FINE SAND (SW)		0
6.0	5-10'	5'		MOIST, BROWN, CLAY (CL)		0
8.0				0		
10.0				0		
12.0	10-15'	5'		MOIST TO SATURATED, BROWN, FINE TO COARSE SAND (SW)		0
14.0				0		
16.0	15-16'	1'				0

APPENDIX B

**SOIL AND GROUNDWATER
ANALYTICAL RESULTS TABLES**

Phase II Environmental Site Assessment Soil Analytical Results Summary - Inorganic Metallic Constituents 227 East Main Street, Hart, Michigan				
Constituent	CAS Number	SB-1 (11.0-11.5') (µg/Kg)	SB-2 (11.0-11.5') (µg/Kg)	GRCC for Soil (µg/Kg)
Date Sampled		10/15/2019	10/15/2019	
lead	7439921	5,000	3,600	400,000 ^a

Notes:

^a Residential Direct Contact Criteria.

Results compared to the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018.

Samples collected by Dixon Environmental Consulting, Inc.

Phase II Environmental Site Assessment Soil Analytical Results Summary - 8270 - Standard Parameter Polynuclear Aromatic Hydrocarbon List 227 East Main Street, Hart, Michigan				
Constituent	CAS Number	SB-1 (11.0-11.5') (µg/Kg)	SB-2 (11.0-11.5') (µg/Kg)	GRCC for Soil (µg/Kg)
Date Sampled		10/15/2019	10/15/2019	
acenaphthene	83329	< 330	< 330	8,700 ^a
acenaphthylene	208968	< 330	< 330	5,900 ^b
anthracene	120127	< 330	< 330	41,000 ^b
benzo(a)anthracene	56553	< 330	< 330	20,000 ^c
benzo(a)pyrene	50328	< 330	< 330	2,000 ^c
benzo(b)fluoranthene	205992	< 330	< 330	20,000 ^c
benzo(g,h,i)perylene	191242	< 330	< 330	2,500,000 ^c
benzo(k)fluoranthene	207089	< 330	< 330	200,000 ^c
chrysene	218019	< 330	< 330	2,000,000 ^c
dibenzo(a,h)anthracene	53703	< 330	< 330	2,000 ^c
fluoranthene	206440	< 330	< 330	5,500 ^a
fluorene	86737	< 330	< 330	5,300 ^a
indeno(1,2,3-cd)pyrene	193395	< 330	< 330	20,000 ^c
naphthalene	91203	< 330	< 330	730 ^a
phenanthrene	85018	< 330	< 330	2,100 ^a
pyrene	129000	< 330	< 330	480,000 ^b

Notes:

^a Groundwater Surface Water Interface Criteria.

^b Residential Drinking Water Protection Criteria.

^c Residential Direct Contact Criteria.

Data results compared to the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018.

Samples collected by Dixon Environmental Consulting, Inc.

Phase II Environmental Site Assessment Soil Analytical Results Summary - 8260 - Standard Parameter Volatile Organic Compound List 227 East Main Street, Hart, Michigan				
Constituent	CAS Number	SB-1 (11.0-11.5') (µg/Kg)	SB-2 (11.0-11.5') (µg/Kg)	GRCC for Soil (µg/Kg)
Date Sampled		10/15/2019	10/15/2019	
1,1,1-trichloroethane	71556	< 50	< 50	1,800 ^c
1,1,2,2-tetrachloroethane	79345	< 50	< 50	170 ^a
1,1,2-trichloroethane	79005	< 50	< 50	100 ^a
1,1-dichloroethane	75343	< 50	< 50	15,000 ^c
1,1-dichloroethene	75354	< 50	< 50	62 ^b
1,2,4-trimethylbenzene	95636	< 50	< 50	570 ^c
1,2-dibromoethane	106934	< 50	< 50	10 ^a
1,2-dichlorobenzene	95501	< 50	< 50	280 ^c
1,2-dichloroethane	107062	< 50	< 50	100 ^a
cis-1,2-dichloroethene	156592	< 50	< 50	1,400 ^a
trans-1,2-dichloroethene	156605	< 50	< 50	2,000 ^a
1,2-dichloropropane	78875	< 50	< 50	100 ^a
1,3,5-trimethylbenzene	108678	< 50	< 50	1,100 ^c
1,3-dichlorobenzene	541731	< 50	< 50	170 ^a
1,4-dichlorobenzene	106467	< 50	< 50	360 ^c
benzene	71432	< 50	< 50	100 ^a
bromodichloromethane	75274	< 50	< 50	1,200 ^b
bromoform	75252	< 50	< 50	1,600 ^a
bromomethane	74839	< 50	< 50	100 ^c
carbon tetrachloride	56235	< 50	< 50	100 ^a
chlorobenzene	108907	< 50	< 50	500 ^c
chloroethane	75003	< 50	< 50	8,600 ^a
chloroform	67663	< 50	< 50	1,600 ^a
chloromethane	74873	< 50	< 50	2,300 ^b
cis-1,3-dichloropropene	542756	< 50	< 50	170 ^a
dibromochloromethane	124481	< 50	< 50	1,600 ^a
ethylbenzene	100414	< 50	< 50	360 ^c
methyl tert-butyl ether	1634044	< 250	< 250	800 ^a
methylene chloride	75092	< 100	< 100	100 ^a
tetrachloroethylene	127184	< 50	< 50	100 ^a
toluene	108883	< 50	< 50	5,400 ^c
trans-1,3-dichloropropene	542756	< 50	< 50	170 ^a
trichloroethylene	79016	< 50	< 50	100 ^a
trichlorofluoromethane	75694	< 50	< 50	52,000 ^a
trihalomethanes (total)	75014	< 200	< 200	1,600 ^a
xylenes (total)	1330207	< 150	< 150	980 ^c

Notes:

^a Residential Drinking Water Protection Criteria.

^b Residential Soil Volatilization to Indoor Air Inhalation Criteria.

^c Groundwater Surface Water Interface Protection Criteria.

Total trihalomethanes is the sum of the following constituents: bromodichloromethane, bromoform, chloroform and dibromochloromethane.

Results compared to the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018. Samples collected by Dixon Environmental Consulting, Inc.

Phase II Environmental Site Assessment Groundwater Analytical Results Summary Inorganic Metallic Constituents 227 East Main Street, Hart, Michigan								
Constituent	CAS Number	SB-1 (12.6') (µg/L)	SB-2 (12.8') (µg/L)	SB-3 (12.7') (µg/L)	SB-4 (11.9') (µg/L)	SB-5 (11.5') (µg/L)	SB-6 (13.2') (µg/L)	GRCC for Groundwater (µg/L)
Date Sampled		10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	
cadmium	7440439	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.5 ^a
chromium (total)	varies	< 10	< 10	< 10	< 10	< 10	< 10	11 ^a
lead	7439921	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	4.0 ^b

Notes:

^a Groundwater Surface Water Interface Criteria.

^b Residential Drinking Water Criteria.

Data results in **bold** exceed the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018.

Samples collected by Dixon Environmental Consulting, Inc.

Phase II Environmental Site Assessment Groundwater Analytical Results Summary - 8270 - Standard Parameter Polynuclear Aromatic Hydrocarbon List 227 East Main Street, Hart, Michigan								
Constituent	CAS Number	SB-1 (12.6') (µg/L)	SB-2 (12.8') (µg/L)	SB-3 (12.7') (µg/L)	SB-4 (11.9') (µg/L)	SB-5 (11.5') (µg/L)	SB-6 (13.2') (µg/L)	GRCC for Groundwater (µg/L)
Date Sampled		10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	
acenaphthene	83329	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	38 ^a
acenaphthylene	208968	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	52 ^b
anthracene	120127	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	43 ^b
benzo(a)anthracene	56553	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.1 ^b
benzo(a)pyrene	50328	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.62 ^c
benzo(b)fluoranthene	205992	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.5 ^b
benzo(g,h,i)perylene	191242	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.26 ^c
benzo(k)fluoranthene	207089	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.80 ^c
chrysene	218019	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6 ^c
dibenzo(a,h)anthracene	53703	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.21 ^b
fluoranthene	206440	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	1.6 ^a
fluorene	86737	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	12 ^a
indeno(1,2,3-cd)pyrene	193395	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	0.022 ^b
naphthalene	91203	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	11 ^a
phenanthrene	85018	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	< 2.0	1.7 ^a
pyrene	129000	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	135 ^c

Notes:

^a Groundwater Surface Water Interface Criteria.

^b Residential Drinking Water Criteria.

^c Water Solubility.

+ Analytical Target Detection Limit.

Data results compared to the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018.

Samples collected by Dixon Environmental Consulting, Inc.

**Phase II Environmental Site Assessment
Groundwater Analytical Results Summary -
8260 - Standard Parameter Volatile Organic Compound List
227 East Main Street, Hart, Michigan**

Constituent	CAS Number	SB-1 (12.6') (µg/L)	SB-2 (12.8') (µg/L)	SB-3 (12.7') (µg/L)	SB-4 (11.9') (µg/L)	SB-5 (11.5') (µg/L)	SB-6 (13.2') (µg/L)	GRCC for Groundwater (µg/L)
Date Sampled		10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	10/15/19	
1,1,1-trichloroethane	71556	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	89 ^b
1,1,2,2-tetrachloroethane	79345	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.5 ^a
1,1,2-trichloroethane	79005	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
1,1-dichloroethane	75343	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	740 ^b
1,1-dichloroethene	75354	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	7.0 ^a
1,2,4-trimethylbenzene	95636	< 1.0	37	< 1.0	< 1.0	< 1.0	< 1.0	17 ^b
1,2-dibromoethane	106934	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	0.05 ^a
1,2-dichlorobenzene	95501	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	13 ^b
1,2-dichloroethane	107062	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
cis-1,2-dichloroethene	156592	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	70 ^a
trans-1,2-dichloroethene	156605	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	100 ^a
1,2-dichloropropane	78875	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
1,3,5-trimethylbenzene	108678	< 1.0	14	< 1.0	< 1.0	< 1.0	< 1.0	45 ^b
1,3-dichlorobenzene	541731	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	6.6 ^a
1,4-dichlorobenzene	106467	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	17 ^b
benzene	71432	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
bromodichloromethane	75274	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	80 ^a
bromoform	75252	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	80 ^a
bromomethane	74839	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	4.2 ^b
carbon tetrachloride	56235	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
chlorobenzene	108907	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	25 ^b
chloroethane	75003	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	430 ^a
chloroform	67663	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	80 ^a
chloromethane	74873	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	260 ^a
1,3-dichloropropene (total)	542756	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	8.5 ^a
dibromochloromethane	124481	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	80 ^a
ethylbenzene	100414	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	18 ^b
methyl tert-butyl ether	1634044	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	40 ^a
methylene chloride	75092	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	5.0 ^a
tetrachloroethylene	127184	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
toluene	108883	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	270 ^b
trichloroethylene	79016	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	5.0 ^a
trichlorofluoromethane	75694	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2,600 ^a
trihalomethanes (total)	varies	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	< 4.0	80 ^a
vinyl chloride	75014	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	2.0 ^a
xylene (total)	1330207	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	49 ^b

Notes:

^a Residential Drinking Water Criteria.

^b Groundwater Surface Water Interface Criteria.

⁺ Analytical Target Detection Limit.

Total trihalomethanes is the sum of the following constituents: bromodichloromethane, bromoform, chloroform and dibromochloromethane.

Results in **bold** exceed the Residential Part 201 Generic Cleanup Criteria (GRCC) as outlined in the Remediation and Redevelopment Division Cleanup Criteria Requirements for Response Activity tables effective June 25, 2018.

Samples collected by Dixon Environmental Consulting, Inc.

Phase II Environmental Site Assessment
Quality Assurance/Quality Control Analytical Results Summary -
8270-Standard Parameter Polynuclear Aromatic Hydrocarbon List
 227 East Main Street, Hart, Michigan

Constituent	CAS Number	EB-1 (10-15-19) (µg/L)
acenaphthene	83329	< 5.0
acenaphthylene	208968	< 5.0
anthracene	120137	< 5.0
benzo(a)anthracene	56553	< 1.0
benzo(a)pyrene	50328	< 1.0
benzo(b)fluoranthene	205992	< 1.0
benzo(g,h,i)perylene	191242	< 1.0
benzo(k)fluoranthene	207089	< 1.0
chrysene	218019	< 1.0
dibenzo(a,h)anthracene	53703	< 2.0
fluoranthene	206440	< 1.0
fluorene	86737	< 5.0
indeno(1,2,3-cd)pyrene	193395	< 2.0
naphthalene	91203	< 5.0
phenanthrene	85018	< 2.0
pyrene	129000	< 5.0

Note:
 QA/QC Equipment Blank Sample prepared by Dixon Environmental Consulting, Inc. on October 15, 2019.

APPENDIX C

**GROUNDWATER QUALITY PARAMETER
STABILIZATION TABLE**

Phase II Environmental Site Assessment Groundwater Quality Parameter Stabilization Table 227 East Main Street, Hart, Michigan					
Time Collected	Temperature (°C)	Conductivity (µS)	Dissolved Oxygen (%)	pH	Turbidity (NTU)
3:33 PM	Began Purging SB-1				
3:38 PM	14.90	577	15.0	8.00	17
3:43 PM	14.88	576	12.3	7.96	8
3:48 PM	14.87	575	12.4	7.94	8
3:53 PM	14.86	575	12.5	7.93	4
3:54 PM	Collected Groundwater Sample, SB-1 (12.6') , on October 15, 2019				
2:58 PM	Began Purging SB-2				
3:03 PM	15.95	499	10.8	8.08	18
3:08 PM	16.01	498	10.1	8.07	17
3:13 PM	15.99	497	9.6	8.06	12
3:18 PM	15.95	496	9.4	8.06	10
3:20 PM	Collected Groundwater Sample, SB-2 (12.8') , on October 15, 2019				
2:17 PM	Began Purging SB-3				
2:22 PM	15.48	588	13.1	7.81	8
2:27 PM	15.46	584	13.7	7.77	8
2:32 PM	15.47	581	14.5	7.76	6
2:37 PM	15.45	577	15.3	7.75	4
2:39 PM	Collected Groundwater Sample, SB-3 (12.7') , on October 15, 2019				
1:28 PM	Began Purging SB-4				
1:33 PM	13.85	617	13.2	7.99	11
1:38 PM	13.86	616	14.3	7.84	5
1:43 PM	13.87	615	15.2	7.78	3
1:48 PM	13.87	615	16.0	7.75	2
1:50 PM	Collected Groundwater Sample, SB-4 (11.9') , on October 15, 2019				
11:52 AM	Began Purging SB-5				
11:57 AM	13.59	803	36.9	7.59	255
12:02 PM	13.58	817	31.0	7.65	98
12:07 PM	13.55	809	27.3	7.65	135
12:12 PM	13.52	802	25.2	7.66	125
12:13 PM	Collected Groundwater Sample, SB-5 (11.5') , on October 15, 2019				
12:39 PM	Began Purging SB-6				
12:44 PM	16.40	585	17.5	8.04	140
12:49 PM	16.53	583	17.1	7.99	34
12:54 PM	16.55	580	16.6	7.97	9
12:59 PM	16.63	577	16.1	7.96	6
1:00 PM	Collected Groundwater Sample, SB-6 (13.2') , on October 15, 2019				

Samples collected by Dixon Environmental Consulting, Inc. on October 15, 2019.

APPENDIX D

LABORATORY ANALYTICAL REPORTS



1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

October 21, 2019

Dan Watt
Dixon Environmental
1560 N. Taylor Avenue
Grand Rapids, MI 49505

TEL: (616) 742-5511
FAX (616) 742-5522
RE: 227 E. Main Street

Dear Dan Watt:

Order No.: 1910095

BIO-CHEM Laboratories, Inc. received 9 samples on 10/16/2019 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema
Office Manager



Chain of Custody

1049 28th Street SE • Grand Rapids, MI 49508
 Ph: (616) 248-4900 • Toll Free: 800-362-LABS
 Fax: (616) 248-4904

1910095

Firm Name		Turn around time		Project Name		Standard		Project Number		Date		Date Due	
Dixon Environmental Consulting		1560 N Taylor Avenue		227 E Main Street		MI		19-08-083		19-08-083			
City, State, Zip		Grand Rapids, MI 49505		State Samples Taken From		MI							
Phone		616-742-5511		Contact Person		Dan Wata							
Lab I.D.		Client Sample Number		Date Taken		Time Taken		Sample Description (sample type: water, soil, other)		Number of Containers		Analysis Desired (One per line)	
1		SB-1(11.0-11.5')	10-15					Soil	2	X	X	X	VOL (Standard 821d)
2		SB-2(11.0-11.5')						Soil	2	X	X	X	CD Cr (Total) Pb
3		SB-1(12.6')						Water	4	X	X	X	PNAS (Standard 821d)
4		SB-2(12.8')							4	X	X	X	CD Cr (Total) Pb
5		SB-3(12.7')							4	X	X	X	PNAS (Standard 821d)
6		SB-4(11.9')							4	X	X	X	CD Cr (Total) Pb
7		SB-5(11.5')							4	X	X	X	PNAS (Standard 821d)
8		SB-6(13.2')							4	X	X	X	CD Cr (Total) Pb
9		EB-1(10-15+4)							1				
10													
Released by		Received by		Date		Time		Laboratory use only					
Dan Wata		Cindy Euwema		10-16-19		9:50		<input type="checkbox"/> Blue Ice _____ ° <input checked="" type="checkbox"/> Regular Ice <input type="checkbox"/> No Coolant					

CLIENT: Dixon Environmental
Project: 227 E. Main Street
Lab Order: 1910095

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1910095-01A	SB-1 (11.0-11.5')	Soil	10/15/2019	10/16/2019
1910095-02A	SB-2 (11.0-11.5')	Soil	10/15/2019	10/16/2019
1910095-03A	SB-1 (12.6')	Aqueous	10/15/2019	10/16/2019
1910095-04A	SB-2 (12.8')	Aqueous	10/15/2019	10/16/2019
1910095-05A	SB-3 (12.7')	Aqueous	10/15/2019	10/16/2019
1910095-06A	SB-4 (11.9')	Aqueous	10/15/2019	10/16/2019
1910095-07A	SB-5 (11.5')	Aqueous	10/15/2019	10/16/2019
1910095-08A	SB-6 (13.2')	Aqueous	10/15/2019	10/16/2019
1910095-09A	EB-1 (10-15-19)	Aqueous	10/15/2019	10/16/2019

CLIENT: Dixon Environmental
Project: 227 E. Main Street
Lab Order: 1910095

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

- (SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
- (E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
- (A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
- (D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation () followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-01A

Project Number: 19-08-008B
Client Sample ID: SB-1 (11.0-11.5')
Collection Date: 10/15/2019
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Lead	SW6010B	5,000		1,000	µg/Kg-dry	1	RHS	10/18/2019
PNAs by GC/MS								
1. Acenaphthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-01A

Project Number: 19-08-008B
Client Sample ID: SB-1 (11.0-11.5')
Collection Date: 10/15/2019
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS (5035)								
1. 1,1,1-Trichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
16. Benzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 100		100	µg/Kg-dry	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 250		250	µg/Kg-dry	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 100		100	µg/Kg-dry	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
33. Toluene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 40		40	µg/Kg-dry	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-02A

Project Number: 19-08-008B
Client Sample ID: SB-2 (11.0-11.5')
Collection Date: 10/15/2019
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Lead	SW6010B	3,600		1,000	µg/Kg-dry	1	RHS	10/18/2019
PNAs by GC/MS								
1. Acenaphthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 330		330	µg/Kg-dry	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-02A

Project Number: 19-08-008B
Client Sample ID: SB-2 (11.0-11.5')
Collection Date: 10/15/2019
Matrix: SOIL

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS (5035)								
1. 1,1,1-Trichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
16. Benzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 100		100	µg/Kg-dry	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 250		250	µg/Kg-dry	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 100		100	µg/Kg-dry	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
33. Toluene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 50		50	µg/Kg-dry	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 40		40	µg/Kg-dry	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-03A

Project Number: 19-08-008B
Client Sample ID: SB-1 (12.6')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-03A

Project Number: 19-08-008B
Client Sample ID: SB-1 (12.6)
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-04A

Project Number: 19-08-008B
Client Sample ID: SB-2 (12.8')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-04A

Project Number: 19-08-008B
Client Sample ID: SB-2 (12.8')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	37		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	14		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-05A

Project Number: 19-08-008B
Client Sample ID: SB-3 (12.7')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-05A

Project Number: 19-08-008B
Client Sample ID: SB-3 (12.7')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-06A

Project Number: 19-08-008B
Client Sample ID: SB-4 (11.9')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-06A

Project Number: 19-08-008B
Client Sample ID: SB-4 (11.9')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-07A

Project Number: 19-08-008B
Client Sample ID: SB-5 (11.5')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-07A

Project Number: 19-08-008B
Client Sample ID: SB-5 (11.5')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-08A

Project Number: 19-08-008B
Client Sample ID: SB-6 (13.2')
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Cadmium	SW6010B	< 1.0		1.0	µg/L	1	RHS	10/18/2019
2. Chromium	SW6010B	< 10		10	µg/L	1	RHS	10/18/2019
3. Lead	SW6010B	< 3.0		3.0	µg/L	1	RHS	10/18/2019
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-08A

Project Number: 19-08-008B
Client Sample ID: SB-6 (13.2)
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Volatiles by GC/MS								
1. 1,1,1-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
2. 1,1,2,2-Tetrachloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
3. 1,1,2-Trichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
4. 1,1-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
5. 1,1-Dichloroethene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
6. 1,2,4-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
7. 1,2-Dibromoethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
8. 1,2-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
9. 1,2-Dichloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
10. 1,2-Dichloroethylene, cis	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
11. 1,2-Dichloroethylene, trans	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
12. 1,2-Dichloropropane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
13. 1,3,5-Trimethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
14. 1,3-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
15. 1,4-Dichlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
16. Benzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
17. Bromodichloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
18. Bromoform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
19. Bromomethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
20. Carbon tetrachloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
21. Chlorobenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
22. Chloroethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
23. Chloroform	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
24. Chloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
25. cis-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
26. Dibromochloromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
27. Ethylbenzene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
28. m,p-Xylene	SW8260B	< 2.0		2.0	µg/L	1	GCP	10/17/2019
29. Methyl tert-butyl ether	SW8260B	< 4.0		4.0	µg/L	1	GCP	10/17/2019
30. Methylene chloride	SW8260B	< 5.0		5.0	µg/L	1	GCP	10/17/2019
31. o-Xylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
32. Tetrachloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
33. Toluene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
34. trans-1,3-Dichloropropene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
35. Trichloroethylene	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
36. Trichlorofluoromethane	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019
37. Vinyl chloride	SW8260B	< 1.0		1.0	µg/L	1	GCP	10/17/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

CLIENT: Dixon Environmental
Lab Order: 1910095
Project: 227 E. Main Street
Lab Sample ID: 1910095-09A

Project Number: 19-08-008B
Client Sample ID: EB-1 (10-15-19)
Collection Date: 10/15/2019
Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
PNAs by GC/MS(SIM)								
1. Acenaphthene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
2. Acenaphthylene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
3. Anthracene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
4. Benzo[a]anthracene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
5. Benzo[a]pyrene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
6. Benzo[b]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
7. Benzo[g,h,i]perylene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
8. Benzo[k]fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
9. Chrysene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
10. Dibenz[a,h]anthracene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
11. Fluoranthene	SW8270C	< 1.0		1.0	µg/L	1	LEB	10/18/2019
12. Fluorene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
13. Indeno[1,2,3-cd]pyrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
14. Naphthalene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019
15. Phenanthrene	SW8270C	< 2.0		2.0	µg/L	1	LEB	10/18/2019
16. Pyrene	SW8270C	< 5.0		5.0	µg/L	1	LEB	10/18/2019

Definitions: PQL - Practical Quantitation Limit
 DF - Dilution Factor

Qualifiers (Q): J - Detected below PQL but above MDL: Estimated
 S - Spike Recovery Outside Acceptance Limits
 B - Analyte detected in associated Method Blank
 N - See case narrative for explanation

Lab Order: 1910095
Client: Dixon Environmental
Project: 227 E. Main Street

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1910095-01A	SB-1 (11.0-11.5')	Soil	PNAs by GC/MS	10/15/2019		10/16/2019	44225	10/18/2019	GCMS_S_191018A
	SB-1 (11.0-11.5')	Soil	Total Metal(s) by ICP	10/15/2019		10/17/2019	44230	10/18/2019	MTL_G_ICP_191018C
	SB-1 (11.0-11.5')	Soil	Volatiles by GC/MS (5035)	10/15/2019		10/16/2019	44237	10/17/2019	GCMS_Z_191017C
1910095-02A	SB-2 (11.0-11.5')	Soil	PNAs by GC/MS	10/15/2019		10/16/2019	44225	10/18/2019	GCMS_S_191018A
	SB-2 (11.0-11.5')	Soil	Total Metal(s) by ICP	10/15/2019		10/17/2019	44230	10/18/2019	MTL_G_ICP_191018C
	SB-2 (11.0-11.5')	Soil	Volatiles by GC/MS (5035)	10/15/2019		10/16/2019	44237	10/17/2019	GCMS_Z_191017C
1910095-03A	SB-1 (12.6')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-1 (12.6')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-1 (12.6')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-04A	SB-2 (12.8')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-2 (12.8')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-2 (12.8')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-05A	SB-3 (12.7')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-3 (12.7')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-3 (12.7')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-06A	SB-4 (11.9')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-4 (11.9')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-4 (11.9')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-07A	SB-5 (11.5')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-5 (11.5')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-5 (11.5')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-08A	SB-6 (13.2')	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C
	SB-6 (13.2')	Aqueous	Total Metal(s) by ICP	10/15/2019		10/16/2019	44227	10/18/2019	MTL_G_ICP_191018D
	SB-6 (13.2')	Aqueous	Volatiles by GC/MS	10/15/2019			R95050	10/17/2019	GCMS_Z_191017B
1910095-09A	EB-1 (10-15-19)	Aqueous	PNAs by GC/MS(SIM)	10/15/2019		10/17/2019	44234	10/18/2019	GCMS_S_191018C