

Site Investigation Report

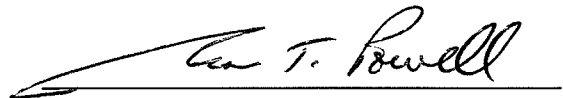
**Waubeka Mill
W4132 Mill Street
Waubeka (Town of Fredonia), Wisconsin**

**July 31, 2018
by METCO
WDNR File Reference #: 03-46-183691
PECFA Claim #: 53021-9716-32**



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This document was prepared by:



Jason T. Powell
Staff Scientist



Ronald J. Anderson, P.G.
Senior Hydrogeologist/Project Manager



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709 Gillette St., Ste 3, La Crosse, WI 54603 ♦ 1-800-552-2932 ♦ Fax (608) 781-8893 ♦ Email: rona@metcohq.com ♦ www.metcohq.com

July 31, 2018

BRRTS #: 03-46-183691
PECFA #: 53021-9716-32

Jacquelyn Voeks
680 Emerald Pt., Building 5, Condo 7
Hollister, MO 65672

Dear Ms. Voeks,

Enclosed is our "Site Investigation Report" concerning the Waubeka Mill Inc site at W4132 Mill Street in Waubeka, Wisconsin. This report presents the complete data from all investigation activities.

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined to a practical extent in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Based on the NR140 ES exceedences found in monitoring well MW-1, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis. Please note that monitoring wells cannot be installed toward the river due to the steep bank. It should also be mentioned that excavation was not possible due to the concrete building supports near the tank area, the steep slope and proximity to the road. Per state response to this report, METCO will proceed with this project.

We appreciate the opportunity to be of service to you on this project. Should you have any questions or require additional information, do not hesitate to contact our La Crosse office.

Sincerely,

Jason T. Powell
Staff Scientist

C: Lee Delcore – WDNR

EXECUTIVE SUMMARY

A feed mill has operated on the subject property since 1864. A 300-gallon underground storage tank (UST) existed on the east side of the building and was used for fueling company vehicles. The UST was last used for storing diesel fuel and had previously been used for leaded gasoline.

On January 2, 1998, the 300-gallon diesel UST was abandoned in place due to its location on a steep slope and proximity to concrete footings and support beams beneath the building. Cardinal Environmental, Inc. oversaw the abandonment of the UST and conducted a Closure Assessment. After the tank had been cut open and cleaned, a hole was cut in the bottom of the UST and a soil sample was collected from approximately 1 foot below the bottom of the UST for DRO and GRO analysis. The soil analytical results showed 17 ppm DRO and 350 ppm GRO. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.

The nearest known LUST site is the Retzer Sales & Service site (BRRTS# 03-46-005246), which is located approximately 450 feet to the northeast of the subject property. Due to the significant distance, it is unlikely that this site is impacting or being impacted by the subject property.

The site investigation consisted of a Geoprobe Project, a Drilling Project, and one round of groundwater sampling. The results of the investigation clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Fill material consisting of sand to silty sand and gravel was encountered in soil borings G-1 thru G-7 from surface to depths ranging from 1-2 feet bgs. Local unconsolidated materials generally consist of silt/clay with traces of gravel at depths ranging from 1-2 feet bgs and extending to depths ranging from 14-18 feet bgs. Weathered dolomite was encountered at depths ranging from 14-18 feet bgs and extends to at least 21 feet bgs.
- According to data collected during one round of groundwater sampling from the monitoring well, groundwater was encountered at 9.55 feet bgs. Based on the local topography and proximity to the Milwaukee River, local horizontal groundwater flow in the immediate area of the subject property is expected to be towards the north to northwest.
- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's exists in the area of the abandoned UST, encompassing soil borings G-1, WM-1, and MW-1. This area appears to measure up to 14 feet in diameter and up to 7 feet thick.
- A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the watertable in the area of the abandoned UST and migrated to the northwest. This plume is approximately 25 feet long and up to 20 feet wide at its widest point.
- Based on the most recent groundwater analytical results, MW-1 shows NR140 ES and/or PAL exceedances.
- Based on the receptor survey, there does not appear to be the potential of contaminant migration along any utility corridors, risk of vapor intrusion to any buildings, or risk to any private water supply wells, or surface waters.
- According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined (based on site restrictions) to a practical extent in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

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Waubeka Mill Inc.**

Based on the NR140 ES exceedences found in monitoring well MW-1, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis. Please note that monitoring wells cannot be installed toward the river due to the steep bank. It should also be mentioned that excavation was not possible due to the concrete building supports near the tank area, the steep slope and proximity to the road. Per state response to this report, METCO will proceed with this project.

LIST OF ACRONYMS

AST - Aboveground Storage Tank
ASTM - American Society for Testing and Materials
Cd - Cadmium
DOT - Department of Transportation
DRO - Diesel Range Organics
ES - Enforcement Standards
gpm - gallons per minute
GRO - Gasoline Range Organics
HNU - brand name for Photoionization Detector
ID - inside-diameter
LAST - Leaking Aboveground Storage Tank
LUST - Leaking Underground Storage Tank
MSL - Mean Sea Level
MTBE - Methyl-tert-butyl ether
MW - Monitoring Well
NIOSH - National Institute for Occupational Safety & Health
NR - Natural Resources
OD - outside-diameter
PAH - Polynuclear Aromatic Hydrocarbons
PAL - Preventive Action Limits
Pb - Lead
PECFA - Petroleum Environmental Cleanup Fund
PID - Photoionization Detector
POTW - Publicly Owned Treatment Works
ppb ug/kg - parts per billion
ppm mg/kg - parts per million
psi - pounds per square inch
PVC - Polyvinyl Chloride
PVOC - Petroleum Volatile Organic Compounds
RAP - Remedial Action Plan
scfm - standard cubic feet per minute
SVE - Soil Vapor Extraction
USCS - Unified Soil Classification System
USGS - United States Geological Survey
UST - Underground Storage Tank
VOC - Volatile Organic Compounds
WDNR - Wisconsin Department of Natural Resources
WPDES - Wisconsin Pollutant Discharge Elimination System

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1.0 INTRODUCTION AND BACKGROUND

A Site Investigation is required by the Wisconsin Department of Natural Resources (WDNR) by authority of Section 292.11 of the Wisconsin Statutes. According to the WDNR, any soil that tests more than 10 ppm Gasoline Range Organics (GRO) or Diesel Range Organics (DRO) requires an investigation. Any soil that tests more than the Chapter NR720 Groundwater Residual Contaminant Levels (RCLs), Direct Contact RCLs, and/or Soil Saturation (C-sat) Values may require possible remediation. Any groundwater that tests more than the Preventive Action Limits (PAL) or Enforcement Standards (ES) for compounds listed in Chapter NR140 Groundwater Quality Standards requires an investigation and possible remediation. For a further explanation of WDNR rules and regulations, see Appendix E.

This report presents data collected during the Site Investigation. The purpose of this investigation was to:

- 1) Determine the extent and degree of petroleum contamination in the environment.
- 2) Determine if any risks exist to the environment or public health.
- 3) As conditions warrant, bring the site to closure.

1.1 Responsible Party Information

Jacquelyn Voeks
680 Emerald Pt., Building 5, Condo 7
Hollister, MO 65672
(262) 707-0735

1.2 Consultant Information

Consultant

METCO
Ronald J. Anderson P.G.
Jason T. Powell
709 Gillette Street, Suite 3
La Crosse, WI 54603
(608) 781-8879

Subcontractors

Geiss Soil & Samples, LLC
W4490 Pope Road
Merrill, WI 54452
(715) 539-3928

Synergy Environmental Lab
1990 Prospect Court
Appleton, WI 54914
(920) 830-2455

Soils & Engineering Services, LLC
1102 Stewart Street
Madison, WI 53713
(608) 274-7600

DKS Transport Services, LLC
N7349 548th Street
Menomonie, WI 54751
(715) 556-2604

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1.3 Site Location

Site Address:

W4132 Mill Street
Waubeka(Town of Fredonia), Wisconsin

Latitude and Longitude:
43° 28' 17" N and 87° 59' 31" W

WTM Coordinates:
682422, 335127

Township/Range:
SE ¼, SW ¼, Section 28, Township 12 North, Range 21 East, Ozaukee County

1.4 Site History

A feed mill has operated on the subject property since 1864. A 300-gallon underground storage tank (UST) existed on the east side of the building and was used for fueling company vehicles. The UST was last used for storing diesel fuel and had previously been used for leaded gasoline.

On January 2, 1998, the 300-gallon diesel UST was abandoned in place due to its location on a steep slope and proximity to concrete footings and support beams beneath the building. Cardinal Environmental, Inc. oversaw the abandonment of the UST and conducted a Closure Assessment. After the tank had been cut open and cleaned, a hole was cut in the bottom of the UST and a soil sample was collected from approximately 1 foot below the bottom of the UST for DRO and GRO analysis. The soil analytical results showed 17 ppm DRO and 350 ppm GRO. The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be conducted.

The nearest known LUST site is the Retzer Sales & Service site (BRRTS# 03-46-005246), which is located approximately 450 feet to the northeast of the subject property. Due to the significant distance, it is unlikely that this site is impacting or being impacted by the subject property. The site investigation consisted of a Geoprobe Project, a Drilling Project, and two rounds of groundwater sampling. The results of the investigation clearly show that released petroleum products have impacted the local soil and groundwater.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, Waubeka is located in the central portion of the Lake Michigan Basin. Present day landforms in this area were formed by continental glaciers, which advanced from the north and east scouring the bedrock surface and transporting rock debris in the ice. As the glaciers melted, this unconsolidated material was deposited on the bedrock surface. Kettle moraine deposits, which consist of permeable stratified sediments and till, exist in much of Ozaukee County. Glacial lake deposits of poorly permeable clay, silt, and sand

Site Investigation Report - METCO Waubeka Mill Inc.

occur along the shores of Lake Michigan.

The elevation of the site is approximately 790 feet above Mean Sea Level (MSL). See Appendix A for site location.

Soil and Bedrock

Soil samples were described by METCO field personnel. Assisting literature included the Hydrologic Atlas, Wisconsin Geologic Logs, and Wisconsin Well Constructor Reports.

Fill material consisting of sand to silty sand and gravel was encountered in soil borings G-1 thru G-7 from surface to depths ranging from 1-2 feet bgs. Local unconsolidated materials generally consist of silt/clay with traces of gravel at depths ranging from 1-2 feet bgs and extending to depths ranging from 14-18 feet bgs. Weathered dolomite was encountered at depths ranging from 14-18 feet bgs and extends to at least 21 feet bgs.

No other characteristics concerning the local sediments such as structures, voids, layering, lenses or secondary permeability are documented at this time.

Hydrogeology

According to data collected during one round of groundwater sampling from the monitoring well, groundwater was encountered at 9.55 feet bgs. Based on the local topography and proximity to the Milwaukee River, local horizontal groundwater flow in the immediate area of the subject property is expected to be towards the north to northwest.

2.2 Receptors

Buildings, Basements, Sumps, and Utility Corridors

The extent of petroleum contamination in groundwater exceeding the NR140 ES and/or PAL does not appear to come into contact with any buildings, basements, sumps, or utility corridors. Therefore, there does not appear to be any risk of vapor intrusion in the on-site building or potential contaminant migration along utility corridors.

Municipal and Private Water Supply Wells

There is no potable water supply to the subject property. The surrounding properties are all served by private water supply wells. All of the properties with private potable wells are over 100 feet away from the source property. The closest property is approximately 125 feet northeast of the former UST system, second is approximately 200 feet southwest of the former UST system, and the third closest is approximately 250 feet east-southeast of the former UST system. Due to the distance and up/side gradient locations of the private water supply wells, they do not appear to be at risk. The nearest municipal wells are in the Village of Fredonia and are located over 1 mile to the east.

METCO is not currently aware of any other impacts, receptors, risks, or local problems associated with the subject property.

Surface Waters

The nearest surface water is the Milwaukee River, which exists approximately 50 feet to the northwest of the former UST system. Based on groundwater samples collected from hand auger borings HA-1, HA-2, and HA-3, it does not appear that petroleum contamination in groundwater has migrated to the Milwaukee River.

3.0 SITE INVESTIGATION RESULTS AND RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

- 1) On September 14, 2017, METCO prepared a LUST Investigation Field Procedures Workplan.
- 2) On October 2, 2017 METCO completed seven Geoprobe borings (G-1 thru G-7) and three hand auger borings (HA-1, HA-2, and HA-3). Thirty-two soil samples and eight groundwater samples were collected from the borings for field and/or laboratory analysis.
- 3) On March 16, 2018, METCO completed one soil boring which was converted to into a monitoring well (MW-1). Five soil samples were collected for field and/or laboratory analysis. Upon completion, the monitoring well was properly developed.
- 4) On May 7, 2018, METCO personnel collected groundwater samples from the monitoring well (MW-1) for field and laboratory analysis. METCO also conducted slug tests on monitoring well (MW-1).
- 5) On May 12, 2018, DKS Transport Services, LLC picked up and properly disposed of 1 drum of soil cuttings.

Site Access Problems

Due to the steep bank, monitoring wells/geoprobe borings can not be completed toward the river. Excavation in the area of the former UST system can not be conducted due to the concrete building supports near the tank area.

Analytical Methods

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project to our knowledge.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

3.2 Data Discussion

Soil Sampling Data

On October 2, 2017, during the Geoprobe Project, seven geoprobe borings and three hand auger borings were completed with thirty-two soil samples collected for field and/or laboratory analysis (PID, PVOC, PAH, Naphthalene, and/or Lead).

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On March 16, 2018, METCO completed one soil boring with five soil samples collected for field and/or laboratory analysis. (PID, DRO, GRO, PVOC, Naphthalene, TCLP-Lead, TCLP-Benzene).

Soil analytical results are summarized in the Soil Analytical Results Tables with exceedances of the NR720 Groundwater RCL values noted.

Soil sample locations are presented in the Detailed Site Map found in Section 6. All data is presented in the data tables in Section 7. The laboratory reports are presented in Appendix B.

Groundwater Sampling Data

On October 2, 2017, during the Geoprobe Project seven geoprobe borings and three hand auger borings were completed with eight groundwater samples collected for laboratory analysis (PVOC and Naphthalene).

On March 16, 2018, during the Drilling Project, one monitoring well (MW-1) was installed and properly developed.

On May 7, 2018, METCO personnel collected groundwater samples from monitoring well MW-1 (Round 1) for laboratory analysis (VOC, PAH, Dissolved Lead, Dissolved Iron, Dissolved Manganese, Nitrate/Nitrite, and Sulfate). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and Specific Conductance were collected from the sampled monitoring well. METCO also conducted slug tests on the monitoring well (MW-1).

Groundwater analytical results are summarized in the Groundwater Analytical Tables with exceedances of the NR140 Preventive Action Limits (PAL) and/or Enforcement Standard (ES) noted.

The soil borings and monitoring well locations are presented in the Detailed Site Map in Section 6. All data is presented in the data tables in Section 7. The lab reports are presented in Appendix B.

Laboratory Certification

Synergy Environmental Lab

Wisconsin Lab Certification #445037560

3.3 Permeability and Hydraulic Conductivity

On May 7, 2018, METCO conducted slug tests on monitoring well MW-1. The slug test data was evaluated using the curve fitting program "Hydro-Test for Windows" Produced by Dakota Environmental, Inc.

Slug test data was evaluated using the Bouwer and Rice method. Hydrogeologic parameters were estimated as follows:

Monitoring Well MW-1

Hydraulic Conductivity (K) = 1.41e-006 ft/sec

Transmissivity = 1.54e-005 ft²/sec

Since there is only one monitoring well, the hydraulic gradient and flow velocity could not be calculated. Since the thickness of the unconfined aquifer was unknown, the bottom of

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monitoring well MW-1 was assumed as the lower extent of the aquifer for calculation purposes. Slug test data is presented in Appendix E.

3.4 Discussion of Results

Fill material consisting of sand to silty sand and gravel was encountered in soil borings G-1 thru G-7 from surface to depths ranging from 1-2 feet bgs. Local unconsolidated materials generally consist of silt/clay with traces of gravel at depths ranging from 1-2 feet bgs and extending to depths ranging from 14-18 feet bgs. Weathered dolomite was encountered at depths ranging from 14-18 feet bgs and extends to at least 21 feet bgs.

According to data collected during one round of groundwater sampling from the monitoring well, groundwater was encountered at 9.55 feet bgs. Based on the local topography and proximity to the Milwaukee River, local horizontal groundwater flow in the immediate area of the subject property is expected to be towards the north to northwest.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL's exists in the area of the abandoned UST, encompassing soil borings G-1, WM-1, and MW-1. This area appears to measure up to 14 feet in diameter and up to 7 feet thick.

A dissolved phase contaminant plume exceeding the NR140 ES and/or PAL has formed at the watertable in the area of the abandoned UST and migrated to the northwest. This plume is approximately 25 feet long and up to 20 feet wide at its widest point.

Based on the most recent groundwater analytical results, MW-1 shows NR140 ES and/or PAL exceedances.

Based on the receptor survey, there does not appear to be the potential of contaminant migration along any utility corridors, risk of vapor intrusion to any buildings, or risk to any private water supply wells, or surface waters.

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined (based on site restrictions) to a practical extent in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

To our knowledge, this investigation has not had any major difficulties, unanticipated results, or questionable results.

The Detailed Site Map, Soil Contamination Map, Groundwater Isoconcentration Map, and Geologic Cross- Section figures, which visually define the extent of contamination, are presented in Section 6.

3.5 Risk Assessment

Per the NR746.03 definitions a release from petroleum tanks is considered "high risk" if any of the four following criterion are met:

- 1) Verified contaminant concentrations in a private or public potable well that exceeds the Preventive Action Limit established under Chapter, Stats. 160.
- 2) Petroleum product that is not in the dissolved phase (floating product) is present with a thickness of 0.01 feet or more, and verified by more than one sampling event.
- 3) An Enforcement Standard exceedance in groundwater within 1,000 feet of a well operated by a public utility, or within 100 feet of any other well used to provide water for human consumption.

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- 4) An Enforcement Standard exceedance in fractured bedrock.

A “medium risk” site is defined as a site where contaminants have extended beyond the boundary of the source property, or there is confirmed contamination in the groundwater, but the site does not meet the definition of a “high risk” site.

A “low risk” site is defined as a site where contaminants are contained only within the soil on the source property and there is no confirmed contamination in groundwater.

Based on the NR746.03 definitions, the Waubeka Mill site is currently a “medium risk” site.

4.0 CONCLUSION

4.1 Investigation Summary

According to the data collected during the investigation, it is the conclusion of METCO that under existing conditions and limitations, the extent and degree of petroleum contamination has been adequately defined (based on site restrictions) to a practical extent in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

4.2 Recommendations

Based on the NR140 ES exceedances found in monitoring well MW-1, the WDNR will likely require additional groundwater monitoring for contaminant trend analysis. Please note that monitoring wells cannot be installed toward the river due to the steep bank. It should also be mentioned that excavation was not possible due to the concrete building supports near the tank area, the steep slope and proximity to the road. Per state response to this report, METCO will proceed with this project.

5.0 REFERENCES

Driscoll, F. G., 1986, Groundwater and Wells, St. Paul, Minnesota.

Fetter, C.W., 1988, Applied Hydrogeology, Columbus, Ohio.

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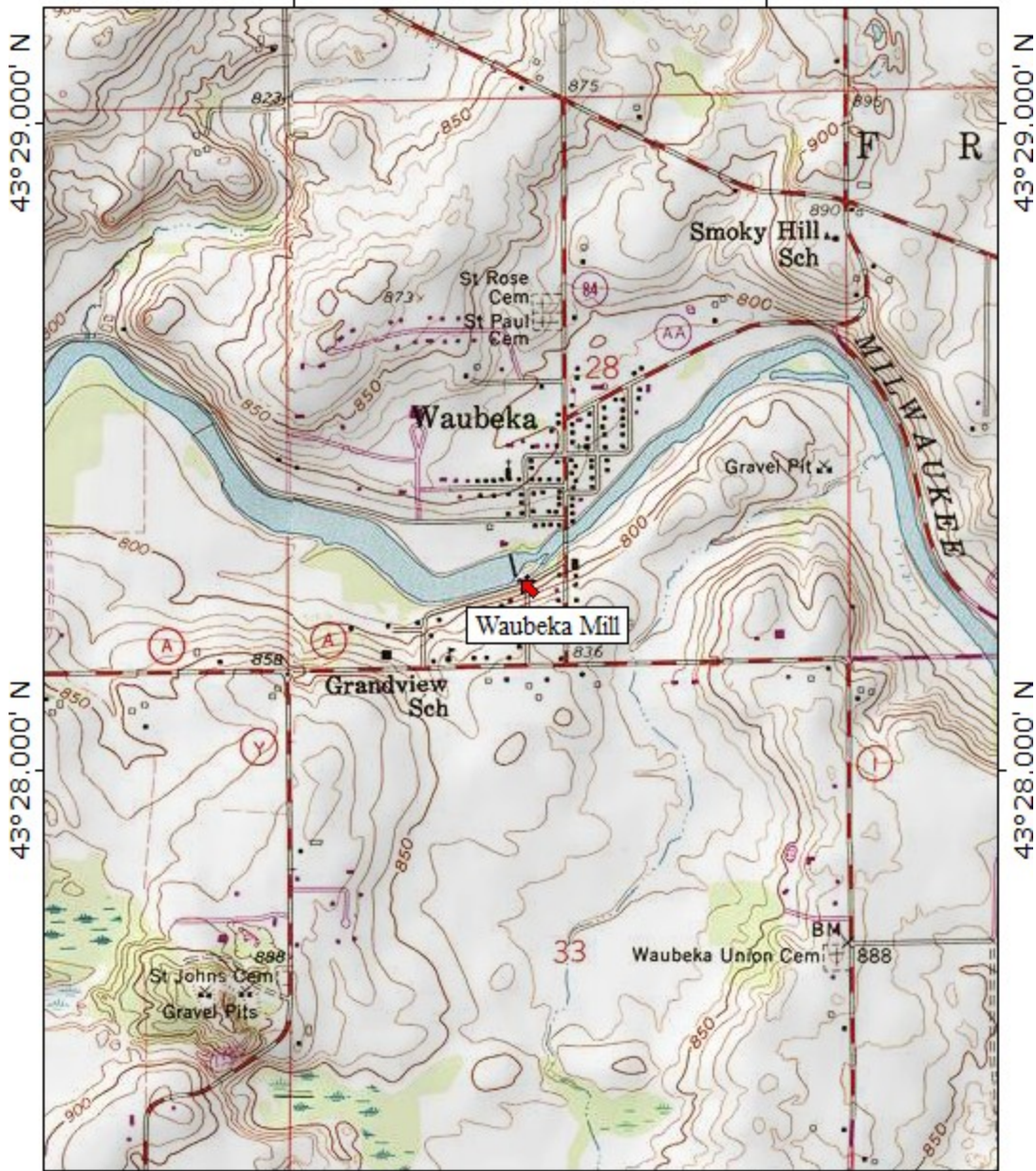
Walton, W.C., 1989, Groundwater Pumping Tests, Chelsea, Michigan.

Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

Other information and data was collected from Jacquelyn Voeks, Town of Fredonia, Diggers Hotline, Soils & Engineering Services, LLC, Geiss Soil and Samples, LLC, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.


**Site Investigation Report - METCO
Waubeka Mill Inc.
6.0 FIGURES**

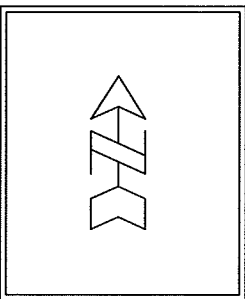
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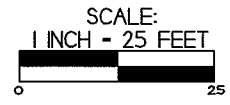
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0 1000 FEET 0 500 1000 METERS
Printed from TOPO! ©2001 National Geographic Holdings (www.topo.com)

B.1.a LOCATION MAP
CONTOUR INTERVAL 10 FEET
WAUBEKA MILL – WAUBEKA, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

SITE LAYOUT MAP	
WAUBEKA MILL	
 <p>709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</p>	<p>FREDONIA, WISCONSIN</p> <p>DRAWN BY: ED DATE: 08/29/2007</p>

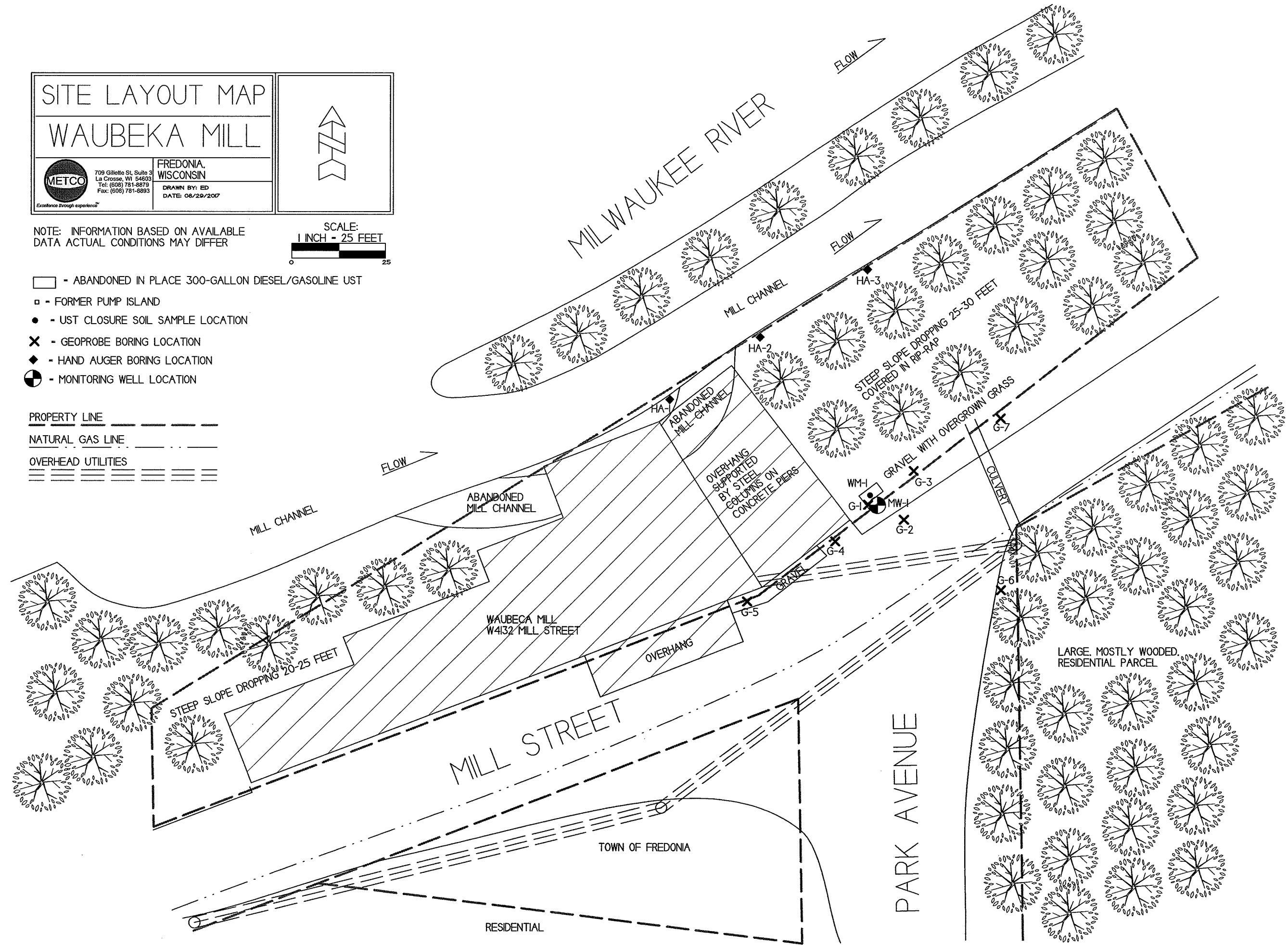



NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

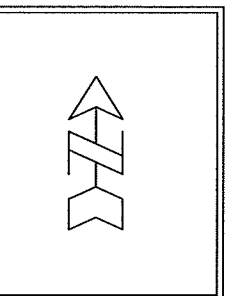


- - ABANDONED IN PLACE 300-GALLON DIESEL/GASOLINE UST
- - FORMER PUMP ISLAND
- - UST CLOSURE SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◆ - HAND AUGER BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

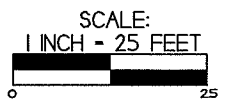
- — — — — PROPERTY LINE
- - - - - NATURAL GAS LINE
- ==== OVERHEAD UTILITIES



B.2.a. SOIL CONTAMINATION	
WAUBEKA MILL	
 <p>709 Gillette St. Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893</p>	<p>FREDONIA, WISCONSIN</p> <p>DRAWN BY: ED DATE: 08/29/2007</p>

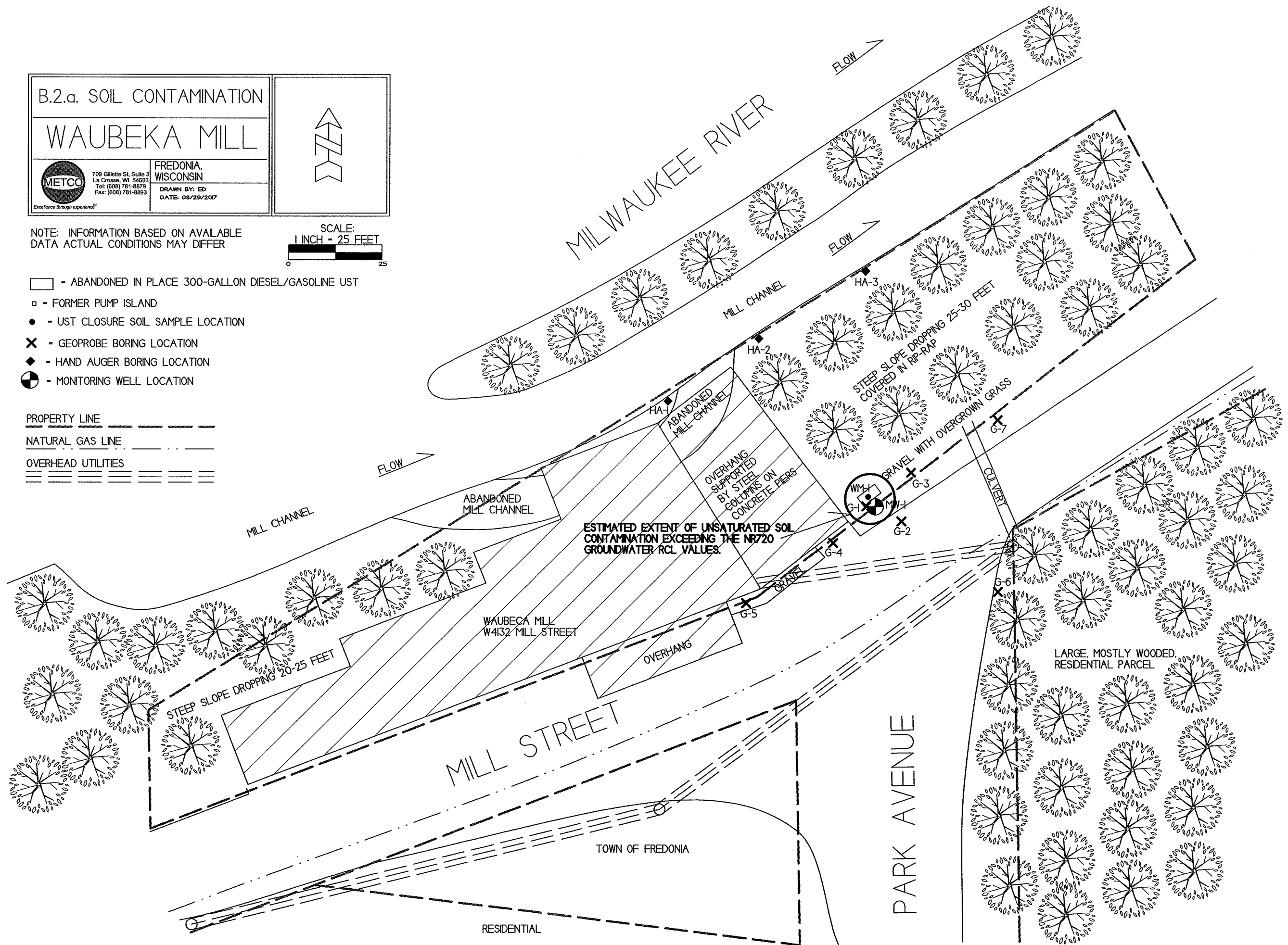



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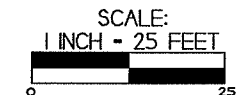


- - ABANDONED IN PLACE 300-GALLON DIESEL/GASOLINE UST
- ◻ - FORMER PUMP ISLAND
- - UST CLOSURE SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◆ - HAND AUGER BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

- — — — — PROPERTY LINE
- — — — — NATURAL GAS LINE
- ==== OVERHEAD UTILITIES



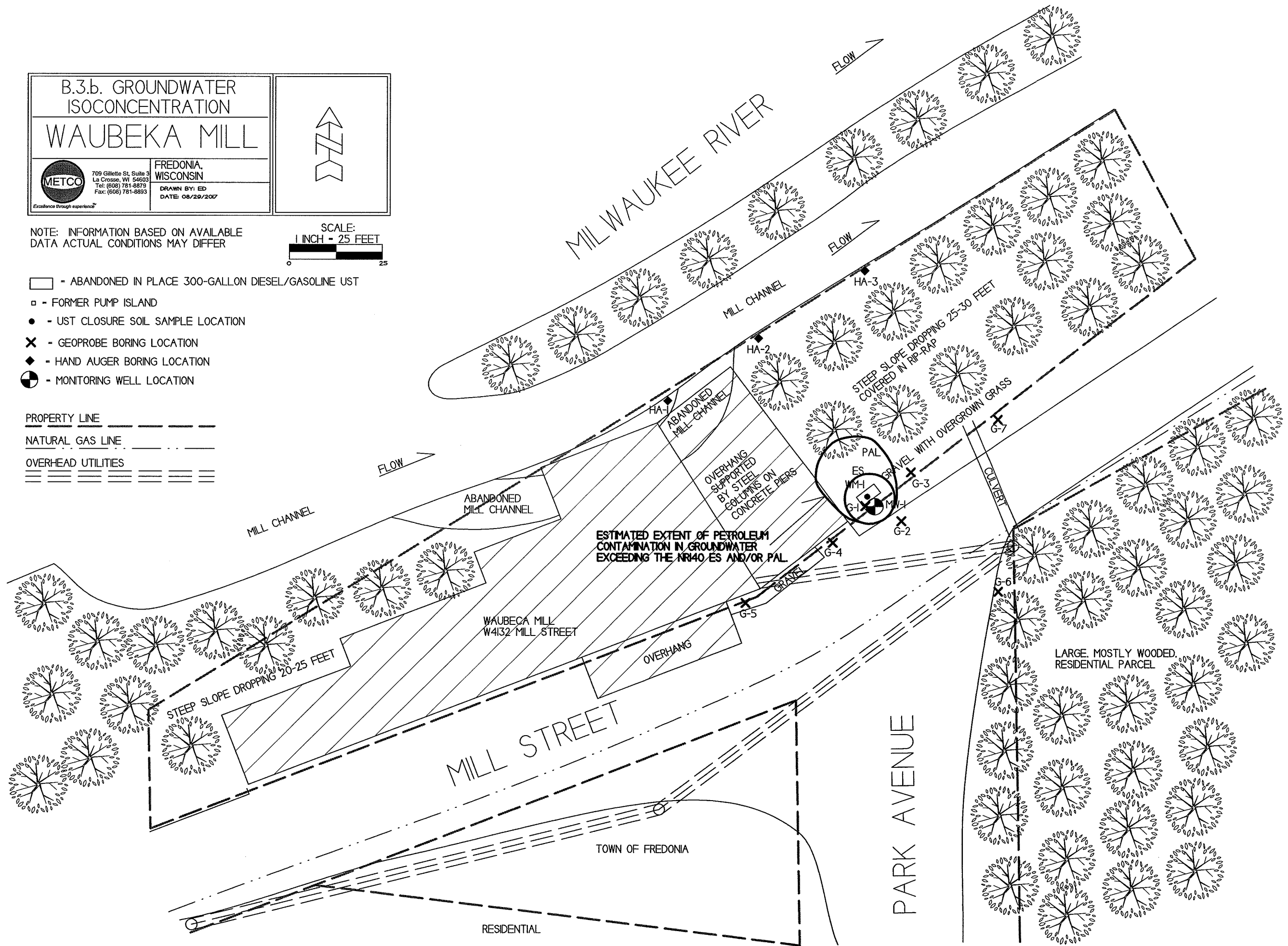
B.3.b. GROUNDWATER ISOCONCENTRATION	
WAUBEKA MILL	
 709 Gillette St, Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893	FREDONIA, WISCONSIN DRAWN BY: ED DATE: 08/29/2007



NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- - ABANDONED IN PLACE 300-GALLON DIESEL/GASOLINE UST
- ◻ - FORMER PUMP ISLAND
- - UST CLOSURE SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◆ - HAND AUGER BORING LOCATION
- ⊙ - MONITORING WELL LOCATION


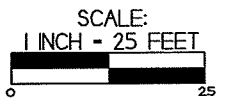
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- — — — — NATURAL GAS LINE
- ==== OVERHEAD UTILITIES



B.3.a.1 GEOLOGIC CROSS SECTION FIGURE
WAUBECA MILL

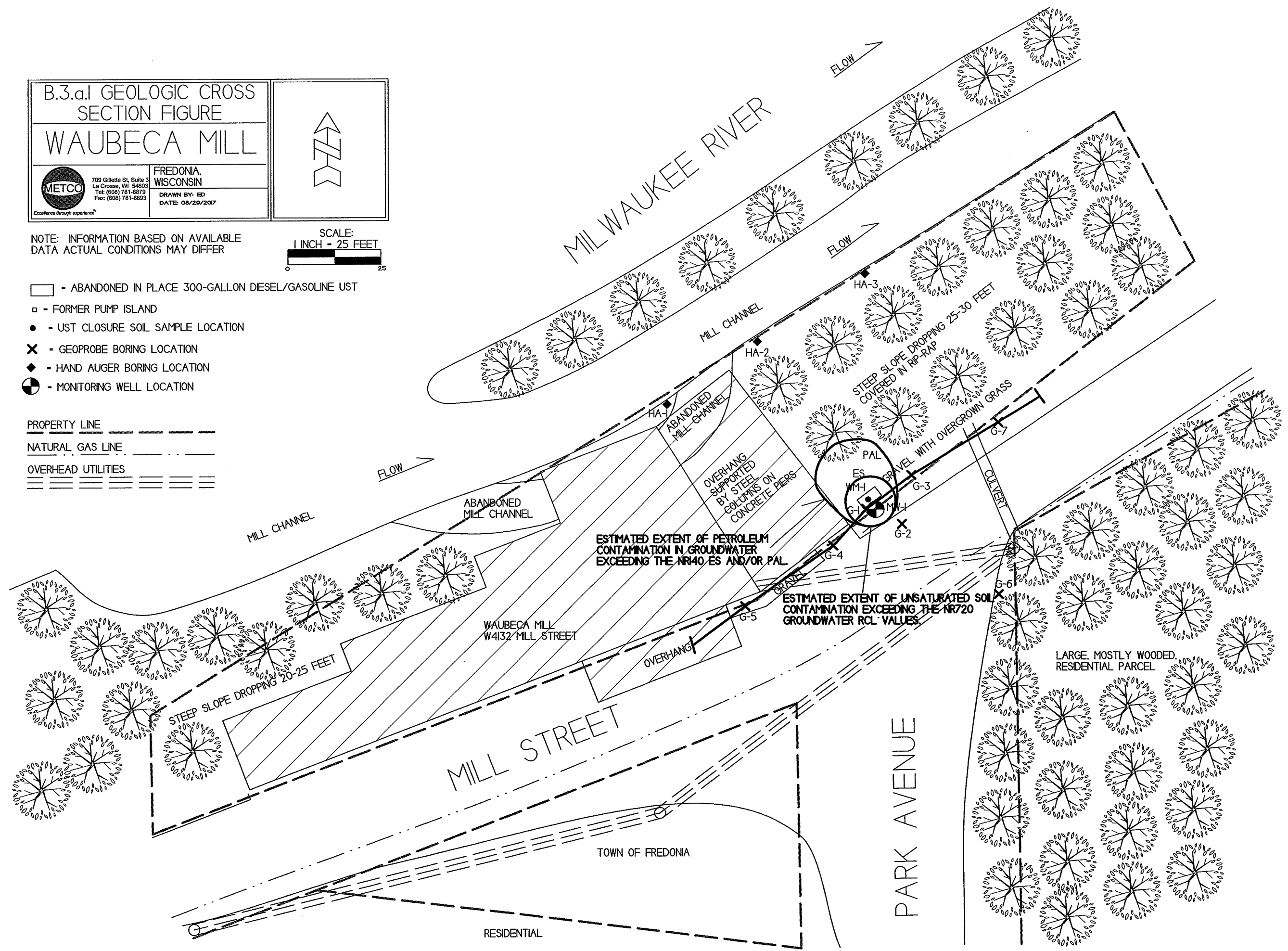
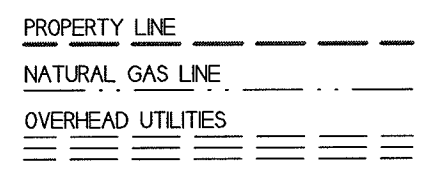
709 Gillette St, Suite 3
 La Crosse, WI 54603
 Tel: (608) 781-8879
 Fax: (608) 781-8893

FREDONIA, WISCONSIN
 DRAWN BY: ED
 DATE: 08/29/2007

NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

- - ABANDONED IN PLACE 300-GALLON DIESEL/GASOLINE UST
- ◻ - FORMER PUMP ISLAND
- - UST CLOSURE SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◆ - HAND AUGER BORING LOCATION
- ⊙ - MONITORING WELL LOCATION



B.3.a.2 GEOLOGIC CROSS SECTION FIGURE (Close-Up)

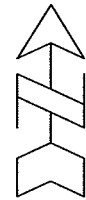
WAUBECA MILL



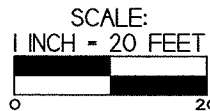
709 Gillette St, Suite 3
La Crosse, WI 54603
Tel: (608) 781-8879
Fax: (608) 781-8893

FREDONIA,
WISCONSIN

DRAWN BY: ED
DATE: 08/29/2017



NOTE: INFORMATION BASED ON AVAILABLE DATA ACTUAL CONDITIONS MAY DIFFER

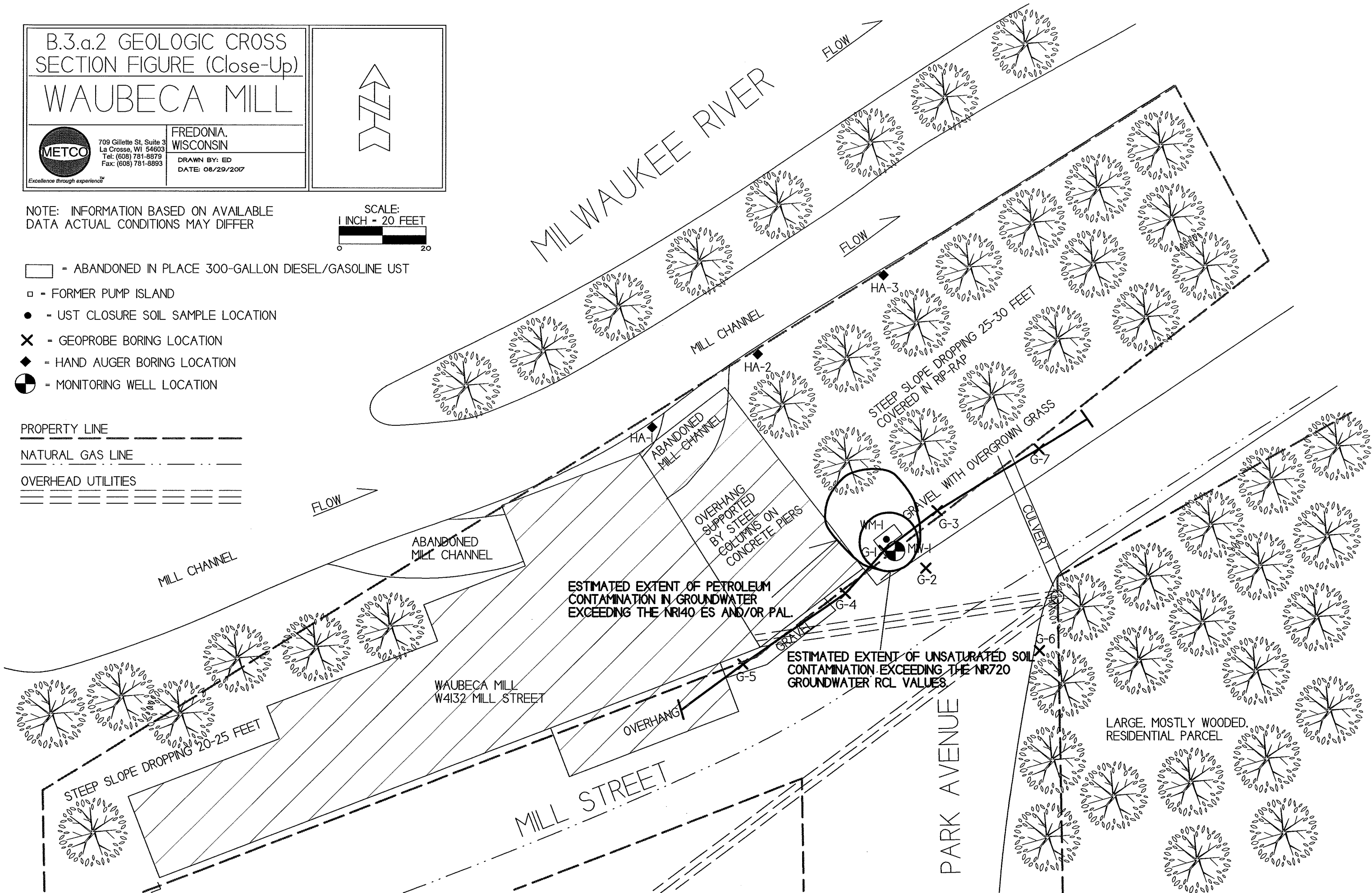


- - ABANDONED IN PLACE 300-GALLON DIESEL/GASOLINE UST
- ◻ - FORMER PUMP ISLAND
- - UST CLOSURE SOIL SAMPLE LOCATION
- ✕ - GEOPROBE BORING LOCATION
- ◆ - HAND AUGER BORING LOCATION
- ⊙ - MONITORING WELL LOCATION

PROPERTY LINE

NATURAL GAS LINE

OVERHEAD UTILITIES



B.3.a.3 GEOLOGIC CROSS SECTION FIGURE
WAUBEKA MILL

METCO
760 Gable St. Suite 3
Le Centre, WI 54602
Tel: (608) 781-8870
Fax: (608) 781-8883

FREDONIA, WISCONSIN
DRAWN BY: TW
DATE: 7/2/18

NOTE: SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE FOLLOWING EVENTS:
- GEOPROBE PROJECT (10/2/17)
- DRILLING PROJECT (3/16/18)
- ROUND 1 GROUNDWATER SAMPLING (5/7/18)

NOTE: SOIL RESULTS SHOW DETECTS AND EXCEEDANCES THAT HAVE BEEN DOCUMENTED ON THE MAP. SEE DATA TABLES AND/OR LABORATORY REPORTS FOR ALL RESULTS

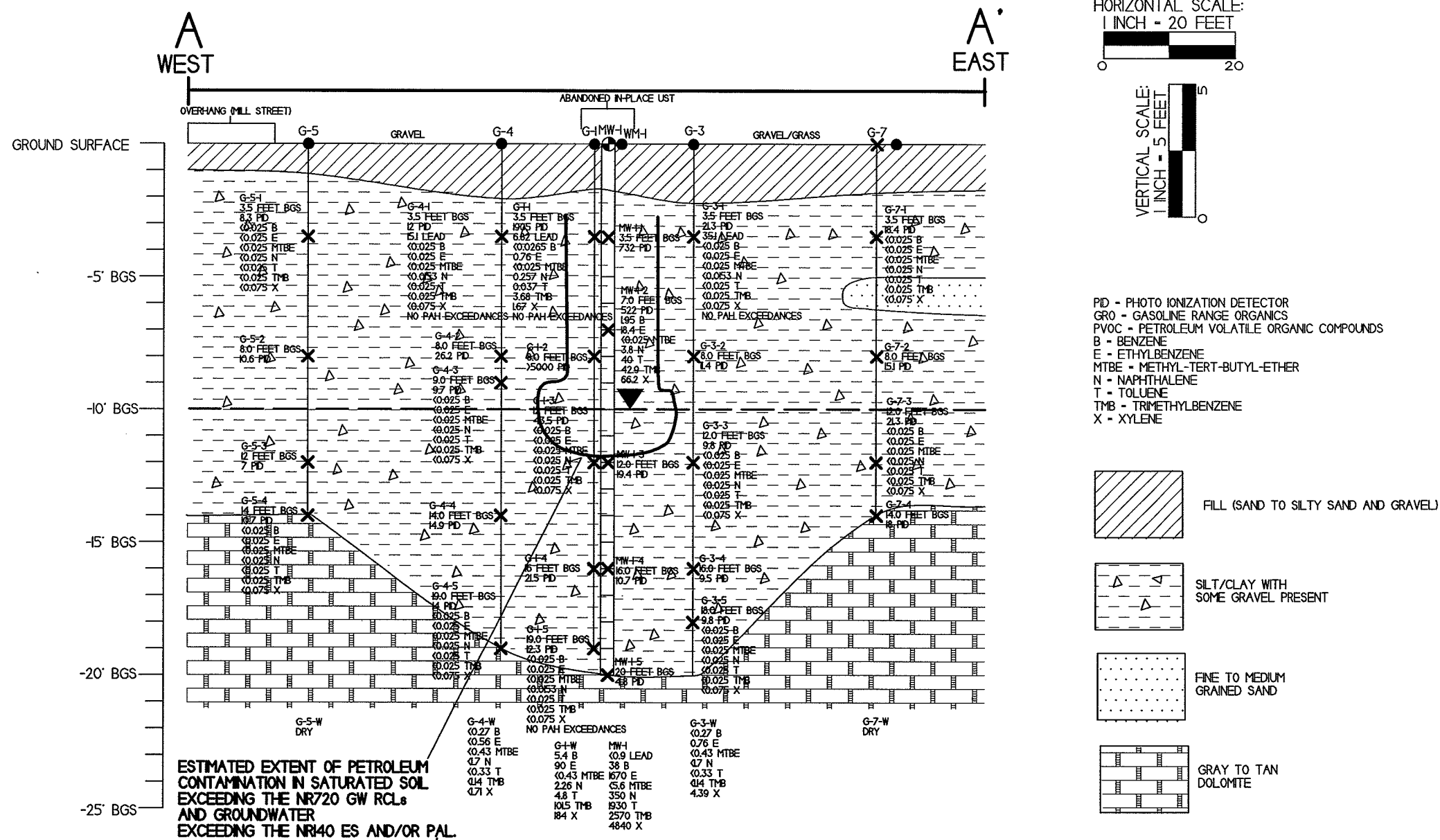
- - MONITORING WELL LOCATION
- - GEOPROBE BORING LOCATION
- ✕ - SOIL SAMPLING LOCATION
- ▼ - WATERTABLE

INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

SOIL SAMPLE RESULTS ARE PRESENTED IN PARTS PER MILLION (PPM).

GROUNDWATER SAMPLE RESULTS ARE PRESENTED IN PARTS PER BILLION (PPB).

GROUNDWATER FLOW IS ESTIMATED TO BE TOWARD THE NORTH TO NORTHWEST.



7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.1 Groundwater Analytical Table

(Geoprobe)

Waubeka Mill, Inc BRRTS #03-46-183691

Sample ID	Date	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
G-1-W	10/2/2017	5.4	90	<0.43	2.26	4.8	<i>101.5</i>	184
G-2-W	10/2/2017	0.47	<0.56	<0.43	<1.7	0.38	<1.14	<1.71
G-3-W	10/2/2017	<0.27	0.76	<0.43	<1.7	<0.33	<1.14	4.39
G-4-W	10/2/2017	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
G-6-W	10/2/2017	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	1.67-2.28
HA-1-W	10/2/2017	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
HA-2-W	10/2/2017	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
HA-3-W	10/2/2017	<0.27	<0.56	<0.43	<1.7	<0.33	<1.14	<1.71
ENFORCE MENT STANDARD ES = Bold		5	700	60	100	800	480	2000
<i>PREVENTIVE ACTION LIMIT PAL = Italics</i>		<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

NS = Not Sampled

(ppb) = parts per billion

(ppm) = parts per million

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

A.1 Groundwater Analytical Table
Waubeka Mill, Inc BRRTS #03-46-183691

Well MW-1

PVC Elevation = 0 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethylbenzenes (ppb)	Xylene (Total) (ppb)
05/07/18	-9.55	9.55	<0.9	38	1670	<5.6	350	1930	2570	4840
ENFORCEMENT STANDARD ES = Bold			15	5	700	60	100	800	480	2000
PREVENTIVE ACTION LIMIT PAL = Italics			<i>1.5</i>	<i>0.5</i>	<i>140</i>	<i>12</i>	<i>10</i>	<i>160</i>	<i>96</i>	<i>400</i>

(ppb) = parts per billion (ppm) = parts per million
 NS = not sampled NM = not measured
 Note: Elevations are presented in feet mean sea level (msl).

A.1 Groundwater Analytical Table
(PAH)
Waubeka Mill, Inc BRRTS #03-46-183691

Well MW-1

Date	Ace-naphthene (ppb)	Acenaphthylene (ppb)	Anthracene (ppb)	Benzo(a)anthracene (ppb)	Benzo(a)pyrene (ppb)	Benzo(b)fluoranthene (ppb)	Benzo(g,h,i)Perylene (ppb)	Benzo(k)fluoranthene (ppb)	Chrysene (ppb)	Dibenzo(a,h)anthracene (ppb)	Fluoranthene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd)pyrene (ppb)	1-Methylnaphthalene (ppb)	2-Methylnaphthalene (ppb)	Naphthalene (ppb)	Phenanthrene (ppb)	Pyrene (ppb)
5/7/2018	<0.40	<0.45	<0.45	<0.85	<0.85	<1.00	<0.55	<0.70	<0.95	<0.50	<1.55	<0.55	<0.60	41.0	76.0	237	<1.25	<1.50
ENFORCEMENT STANDARD = ES - Bold			3000	-	0.2	0.2	-	-	0.2	-	400	400	-	-	-	100	-	250
PREVENTIVE ACTION LIMIT = PAL - <i>Italics</i>			<i>600</i>	-	<i>0.02</i>	<i>0.02</i>	-	-	<i>0.02</i>	-	<i>80</i>	<i>80</i>	-	-	-	<i>10</i>	-	<i>50</i>

(ppb) = parts per billion (ppm) = parts per million
NS = not sampled NM = not measured
Note: Elevations are presented in feet mean sea level (msl).

A.2 Soil Analytical Results Table
Waubeka Mill, Inc BRRTS #03-46-183691

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
WM-1	5.0-6.0		01/07/98	NS	NS	17	350	NS	NS	NS	NS	NS	NS	NS	NS	NS			
G-1-1	3.5		10/02/17	1905	6.82	NS	NS	0.0265	0.76	<0.025	0.257	0.037	NS	NS	NS	NS	0		
G-1-2	8.0		10/02/17	>5000													0	0.0149	1.7E-07
G-1-3	12.0		10/02/17	43.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-1-4	16.0		10/02/17	21.5															
G-1-5	16.0		10/02/17	12.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS			
G-2-1	3.5		10/02/17	17.5	8.61	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-2-2	7.0		10/02/17	22.2															
G-2-3	13.0		10/02/17	12.5	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-2-4																			
G-2-5	16.0		10/02/17	10.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-1	3.5		10/02/17	21.3	35.1	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0	0.0012	2.7E-07
G-3-2	8.0		10/02/17	11.4															
G-3-3	12.0		10/02/17	9.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-3-4	16.0		10/02/17	9.5															
G-3-5	18.0		10/02/17	9.8	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-1	3.5		10/02/17	12	15.1	NS	NS	<0.025	<0.025	<0.025	<0.0153	<0.025	<0.025	<0.025	<0.075	NS	0		
G-4-2	8.0		10/02/17	26.2															
G-4-3	9.0		10/02/17	9.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-4-4	14.0		10/02/17	14.9															
G-4-5	19.0		10/02/17	14	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-5-1	3.5		10/02/17	8.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-5-2	8.0		10/02/17	10.6															
G-5-3	12.0		10/02/17	7															
G-5-4	14.0		10/02/17	10.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-6-1	3.5		10/02/17	26.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-6-2	8.0		10/02/17	15.4															
G-6-3	12.0		10/02/17	28.2															
G-6-4	15.0		10/02/17	22.1	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-1	3.5		10/02/17	18.4	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS	0		
G-7-2	8.0		10/02/17	15.1															
G-7-3	12.0		10/02/17	21.3	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
G-7-4	14.0		10/02/17	18															
HA-1-1	6.0		10/02/17	8.7	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075	NS			
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38	3.96	-				
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-			
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-	1.00E+00	1.00E-05	
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-	1.00E+00	1.00E-05	

Bold = Groundwater RCL Exceedance
Bold & Underline = Non Industrial Direct Contact RCL Exceedance
(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance
Bold & Asteric * = C-sat Exceedance
Italics = Industrial Direct Contact RCL

NS = Not Sampled
 (ppm) = parts per million
 DRO = Diesel Range Organics
 GRO = Gasoline Range Organics
 PID = Photoionization Detector
 PVOC's = Petroleum Volatile Organic Compounds
 VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)
 S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
Waubeka Mill, Inc BRRTS #03-46-183691

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naphthalene (ppm)	Toluene (ppm)	1,2,4-Trime-thylbenzene (ppm)	1,3,5-Trime-thylbenzene (ppm)	Xylene (Total) (ppm)	Other VOC's (ppb)	DIRECT CONTACT PVOC & PAH COMBINED		
																	Exceedance Count	Hazard Index	Cumulative Cancer Risk
MW-1-1	3.5		03/16/18	732															
MW-1-2	7.0		03/16/18	522	NS	NS	NS	1.95	18.4	<0.25	3.8	40	32	10.9	66.2	NS			
MW-1-3	12.0		03/16/18	19.4															
MW-1-4	16.0		03/16/18	10.7															
MW-1-5	20.0		03/16/18	4.8															
DRUM COMPOSITE			03/16/18	NS	NS	56.7	116										TCLP Lead <0.1		
																	TCLP Benzene <0.05		
Groundwater RCL					27	-	-	0.00512	1.57	0.027	0.6582	1.11	1.38		3.96	-			
Non-Industrial Direct Contact RCL					400	-	-	1.6	8.02	63.8	5.52	818	219	182	258	-		1.00E+00	1.00E-05
Industrial Direct Contact RCL					(800)	-	-	(7.07)	(35.4)	(282)	(24.1)	(818)	(219)	(182)	(258)	-		1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*					-	-	-	1820*	480*	8870*	-	818*	219*	182*	258*	-			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

Italics = Industrial Direct Contact RCL

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

DRO = Diesel Range Organics

GRO = Gasoline Range Organics

PID = Photoionization Detector

PVOC's = Petroleum Volatile Organic Compounds

VOC's = Volatile Organic Compounds

Note: Non-Industrial RCLs apply to this site.

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.2 Soil Analytical Results Table
(PAH)
Waubeka Mill, Inc BRRS #03-46-183691

Sample	Depth (feet)	Saturation U/S	Date	Acenaphthene (ppm)	Acenaphthylene (ppm)	Anthracene (ppm)	Benzo(a)anthracene (ppm)	Benzo(a)pyrene (ppm)	Benzo(b)fluoranthene (ppm)	Benzo(g,h,i)perylene (ppm)	Benzo(k)fluoranthene (ppm)	Chrysene (ppm)	Dibenzo(a,h)anthracene (ppm)	Fluoranthene (ppm)	Fluorene (ppm)	Indeno(1,2,3-cd)pyrene (ppm)	1-Methylnaphthalene (ppm)	2-Methylnaphthalene (ppm)	Naphthalene (ppm)	Phenanthrene (ppm)	Pyrene (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exceedance Count	Hazard Index	Cumulative Cancer Risk
G-1-1	3.5		10/02/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	0.127	0.216	0.257	<0.0111	<0.0153	0	0.0149	1.7E-07
G-1-5	16		10/02/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153			
G-2-1	3.5		10/02/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	0.0203	0		
G-3-1	3.5		10/02/17	<0.0151	<0.0159	<0.0109	0.0218	0.0213	0.033	0.084	0.0186	0.0257	<0.0078	0.048	<0.0179	0.0185	<0.0203	<0.0113	<0.0153	0.0155	0.045	0	0.0012	2.7E-07
G-4-1	3.5		10/02/17	<0.0151	<0.0159	<0.0109	<0.0116	<0.0113	<0.013	<0.0114	<0.0147	<0.0121	<0.0078	<0.0147	<0.0179	<0.0114	<0.0203	<0.0113	<0.0153	<0.0111	<0.0153	0		
Groundwater RCL				---	---	197	---	0.47	0.4793	---	---	0.145	---	88.8	14.8	---	---	---	0.6582	---	54.5			
Non-Industrial Direct Contact RCL				3590	---	17900	1.140	0.1150	1.150	---	11.50	115	0.1150	2390	2390	1.150	17.6	239	5.52	---	1790		1.00E+00	1.00E-05
Industrial Direct Contact RCL				(45200)	---	(100000)	(20.8)	(2.11)	(21.1)	---	(211)	(2110)	(2.11)	(30100)	(30100)	(21.1)	(72.7)	(3010)	(24.1)	---	(22600)			
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance

Bold & Underline = Non Industrial Direct Contact RCL Exceedance

(Bold & Parentheses) = Industrial Direct Contact RCL Exceedance

Bold & Asteric * = C-sat Exceedance

Italics = Industrial Direct Contact RCL

NS = Not Sampled

NM = Not Measured

(ppm) = parts per million

ND = No Detects

PAH = Polynuclear Aromatic Hydrocarbons

PID = Photoionization Detector

VOC's = Volatile Organic Compounds

U=UNSATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

S=SATURATED (BASED ON ALL TIME LOW WATER TABLE PER WDNR)

A.6 Water Level Elevations

Waubeka Mill, Inc BRRTS #03-46-183691

Waubeka, Wisconsin

MW-1

Ground Surface (feet msl)

PVC top (feet msl)

Well Depth (feet)

20.50

Top of screen (feet msl)

-10.50

Bottom of screen (feet msl)

-20.50

Depth to Water From Top of PVC (feet)

05/07/18

9.55

Depth to Water From Ground Surface (feet)

05/07/18

9.55

Groundwater Elevation (feet msl)

05/07/18

-9.55

CNL = Could Not Locate

A = Abandoned and removed during soil excavation

NI = Not Installed

NM = Not Measured

METCO

Environmental Consulting, Fuel System Design, Installation and Service

A.7 Other

Groundwater NA Indicator Results

Waubeka Mill, Inc BRRTS #03-46-183691

Well MW-1

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
05/07/18	2.11	7.14	-62	9.7	3810	<0.36	44.5	0.22	276
ENFORCEMENT STANDARD = ES – Bold						10	-	-	300
PREVENTIVE ACTION LIMIT = PAL - Italics						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million

NS = not sampled

NM = not measured

ORP = Oxidation Reduction Potential

Note: Elevations are presented in feet mean sea level (msl).

**Site Investigation Report - METCO
Waubeka Mill Inc.
8.0 PHOTOS**





Site Investigation Report - METCO

Waubeka Mill Inc.

APPENDIX A/ METHODS OF INVESTIGATION

**Site Investigation Report - METCO
Waubeka Mill Inc.
Geoprobe Project**

Geoprobe sampling was completed by Geiss Soil & Samples LLC of Merrill, Wisconsin, under the supervision of METCO personnel. The Geoprobe consists of a truck or track-mounted, hydraulically driven unit that advances interconnected, 1-inch diameter, 4-foot-long, and stainless-steel rods into the subsurface.

Field observations such as soil characteristics, petroleum odors, and petroleum staining associated with all the collected samples were continuously noted throughout sampling. All Geoprobe holes were properly abandoned to ground level using bentonite clay.

The purpose of the Geoprobe Project was to cost effectively determine, if the released contaminants have impacted the soil and groundwater, and determine the general extent of contamination along those mediums. This collected information would then be used to guide the Drilling Project, if required.

Geoprobe Soil Sampling

The procedure consisted of advancing an assembled stainless-steel sampler to the top of the interval to be sampled. A stop-pin was then removed, and the sampler driven until filled. The rods were retracted from the hole and the sample recovered.

Geoprobe Groundwater Sampling

This procedure consisted of advancing a stainless steel, mill slotted well point into the watertable interface. Disposable, flexible, ¼ inch diameter polyethylene tubing was then introduced through the steel rods and down to the watertable interface. A hand-held pump was used to slowly draw an undisturbed water sample into the polyethylene tube, which was then removed from the steel rods and the water sample immediately placed into sampling containers.

Drilling Project

Soil borings were conducted by Soils and Engineering Services of Madison, Wisconsin, under the supervision of METCO personnel. Using a truck-mounted auger drill rig, all borings were completed in accordance with ASTM D-1452, "Soil Investigation and Sampling by Auger Boring," using 4.25-inch, inside-diameter (ID) augers. Soil sampling was conducted in accordance with ASTM D-1586 "Penetration Tests and Split-Barrel Sampling of Soils" using a 2-inch, outside-diameter (OD) 2.5-foot split spoon sampler. Using this procedure, a split spoon sampler is driven into the soil by a 140 pound weight falling 30 inches.

Field observations such as soil characteristics, petroleum odors, and petroleum staining were continuously noted throughout the drilling process.

The purpose of the Drilling Project and subsequent well installation/sampling was to investigate subsurface conditions and characteristics, verify the extent of petroleum contamination in local soil and groundwater, and collect aquifer data.

**Site Investigation Report - METCO
Waubeka Mill Inc.
Field Screening**

Selected soil samples were scanned with a Rae Systems Mini Raelite Photo-ionization Detector (PID) equipped with a 10.6 eV lamp. Metered calibrations were done at the beginning of each workday using an isobutylene standard. A quart sized Ziploc bag was filled, by gloved hand, one-third full with the sample. The Ziploc bags were sealed and shaken vigorously for 30 seconds. Headspace development was established by allowing the sample to rest for at least 15 minutes. If ambient temperatures are below 70 degrees Fahrenheit, headspace development takes place in a heated environment, which allows the sample enough time to establish satisfactory headspace. To take readings, the PID probe was inserted through the Ziploc seal and the highest meter response recorded.

Throughout the field projects the PID Meter did not encounter any vast temperature or humidity changes, malfunctions, repairs, or any other obvious interferences that would affect its results.

Monitoring Well Installation, Development, and Sampling

The monitoring well installation was completed by Soils and Engineering Services, under the supervision of METCO personnel and done in accordance with Wisconsin Department of Natural Resources Chapter NR141, "Groundwater Monitoring Well Requirements." The monitoring well was constructed of flush threaded, 2-inch inside-diameter schedule 40 polyvinyl chloride (PVC) piping. A ten-foot well screen with 0.010-inch slots were installed partially into the groundwater for the monitoring well, with the watertable intersecting the screen. Uniform washed sand was installed around the well screens to serve as a filter pack. Bentonite was used above the filter pack to provide an annular space seal.

Locking watertight caps along with steel flush-mounted covers were installed with the wells for protection. A Monitoring Well Construction Form and a Groundwater Monitoring Well Information Form are presented in Appendix C.

The monitoring well was not developed as it was dry upon completion.

Groundwater samples for laboratory analysis were collected using a bottom loading, disposable, polyethylene bailer and disposable, polyethylene twine. A minimum of four well volumes was purged from the well immediately before sampling.

Field observations such as color, turbidity, petroleum odors, and petroleum sheens associated with the collected samples were continuously noted throughout sampling.

Sample Preparation

The volume of sample, size of container, and type of sample preservation was dependent on the specific parameter for which the sample was to be analyzed. Parameter specific information is presented in the LUST Sample Guidelines located in Appendix E.

Field Sampling and Transportation Quality Control

Site Investigation Report - METCO Waubeka Mill Inc.

All samples were collected in a manner as to maintain their quality and to eliminate any possible cross contamination. METCO did not deviate from any WDNR or laboratory recommended procedures for sample collection, preservation, or transportation on this project.

Equipment advanced into the subsurface was cleaned between sampling locations. Cleaning consisted of washing with a biodegradable Alconox solution and rinsing with potable water. Disposable equipment was not cleaned, but immediately disposed of after use.

All samples were constantly kept on ice in a cooler and hand delivered to the laboratory.

Laboratory Quality Control

See Appendix B for the results of any field blanks, trip blanks, temperature blanks, lab spikes, split samples, replicate spikes, and duplicates.

Investigative Wastes

On May 21, 2018, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of 1 drum of soil cuttings at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.

Site Investigation Report - METCO

Waubeka Mill Inc.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JACQUELYN VOEKS
 JACQUELYN VOEKS
 680 EMERALD PT
 HOLLISTER, MO 65672

Report Date 16-Oct-17

Project Name WAUBEKA MILL
 Project #
 Lab Code 5033672A
 Sample ID G-1-1
 Sample Matrix Soil
 Sample Date 10/2/2017

Invoice # E33672

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.6	%			1	5021		10/4/2017	NJC	1
Inorganic										
Metals										
Lead, Total	6.82	mg/Kg	0.17	0.58	1	6010B		10/11/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/5/2017	10/5/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/5/2017	10/5/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/5/2017	10/5/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/5/2017	10/5/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/5/2017	10/5/2017	NJC	1
1-Methyl naphthalene	0.127	mg/kg	0.0203	0.0645	1	M8270C	10/5/2017	10/5/2017	NJC	1
2-Methyl naphthalene	0.216	mg/kg	0.0113	0.0358	1	M8270C	10/5/2017	10/5/2017	NJC	1
Naphthalene	0.257	mg/kg	0.0153	0.0486	1	M8270C	10/5/2017	10/5/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/5/2017	10/5/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/5/2017	10/5/2017	NJC	1
PVOC										
Benzene	0.0265 "J"	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	0.76	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672A
 Sample ID G-1-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Toluene	0.037 "J"	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	3.05	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	0.63	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	1.31	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	0.36	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672B
 Sample ID G-1-3
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.6	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/6/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/6/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/6/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/6/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/6/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/6/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/6/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/6/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/6/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672C
 Sample ID G-1-5
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.1	%			1	5021		10/4/2017	NJC	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/5/2017	10/5/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/5/2017	10/5/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/5/2017	10/5/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/5/2017	10/5/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/5/2017	10/5/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/5/2017	10/5/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/5/2017	10/5/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/5/2017	10/5/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/5/2017	10/5/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/5/2017	10/5/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672D
 Sample ID G-2-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.5	%			1	5021		10/4/2017	NJC	1
Inorganic										
Metals										
Lead, Total	8.61	mg/Kg	0.17	0.58	1	6010B		10/11/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/5/2017	10/5/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/5/2017	10/5/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/5/2017	10/5/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/5/2017	10/5/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/5/2017	10/5/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/5/2017	10/5/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/5/2017	10/5/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/5/2017	10/5/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/5/2017	10/5/2017	NJC	1
Pyrene	0.0203 "J"	mg/kg	0.0153	0.0487	1	M8270C	10/5/2017	10/5/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672E
 Sample ID G-2-3
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672F
 Sample ID G-2-5
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.3	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672G
 Sample ID G-3-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	82.0	%			1	5021		10/4/2017	NJC	1
Inorganic										
Metals										
Lead, Total	35.1	mg/Kg	0.17	0.58	1	6010B		10/11/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/5/2017	10/5/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/5/2017	10/5/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)anthracene	0.0218 "J"	mg/kg	0.0116	0.037	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)pyrene	0.0213 "J"	mg/kg	0.0113	0.0359	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(b)fluoranthene	0.033 "J"	mg/kg	0.013	0.041	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(g,h,i)perylene	0.084	mg/kg	0.0114	0.036	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(k)fluoranthene	0.0186 "J"	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Chrysene	0.0257 "J"	mg/kg	0.0121	0.0383	1	M8270C	10/5/2017	10/5/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluoranthene	0.048	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/5/2017	10/5/2017	NJC	1
Indeno(1,2,3-cd)pyrene	0.0185 "J"	mg/kg	0.0114	0.0362	1	M8270C	10/5/2017	10/5/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/5/2017	10/5/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/5/2017	10/5/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/5/2017	10/5/2017	NJC	1
Phenanthrene	0.0155 "J"	mg/kg	0.0111	0.0352	1	M8270C	10/5/2017	10/5/2017	NJC	1
Pyrene	0.045 "J"	mg/kg	0.0153	0.0487	1	M8270C	10/5/2017	10/5/2017	NJC	1
PVOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672H
 Sample ID G-3-3
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.6	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672I
 Sample ID G-3-5
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.3	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672J
 Sample ID G-4-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.2	%			1	5021		10/4/2017	NJC	1
Inorganic										
Metals										
Lead, Total	15.1	mg/Kg	0.17	0.58	1	6010B		10/11/2017	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.0151	mg/kg	0.0151	0.0481	1	M8270C	10/5/2017	10/5/2017	NJC	1
Acenaphthylene	< 0.0159	mg/kg	0.0159	0.0508	1	M8270C	10/5/2017	10/5/2017	NJC	1
Anthracene	< 0.0109	mg/kg	0.0109	0.0345	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)anthracene	< 0.0116	mg/kg	0.0116	0.037	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(a)pyrene	< 0.0113	mg/kg	0.0113	0.0359	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(b)fluoranthene	< 0.013	mg/kg	0.013	0.041	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(g,h,i)perylene	< 0.0114	mg/kg	0.0114	0.036	1	M8270C	10/5/2017	10/5/2017	NJC	1
Benzo(k)fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Chrysene	< 0.0121	mg/kg	0.0121	0.0383	1	M8270C	10/5/2017	10/5/2017	NJC	1
Dibenzo(a,h)anthracene	< 0.0078	mg/kg	0.0078	0.0251	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluoranthene	< 0.0147	mg/kg	0.0147	0.0469	1	M8270C	10/5/2017	10/5/2017	NJC	1
Fluorene	< 0.0179	mg/kg	0.0179	0.057	1	M8270C	10/5/2017	10/5/2017	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.0114	mg/kg	0.0114	0.0362	1	M8270C	10/5/2017	10/5/2017	NJC	1
1-Methyl naphthalene	< 0.0203	mg/kg	0.0203	0.0645	1	M8270C	10/5/2017	10/5/2017	NJC	1
2-Methyl naphthalene	< 0.0113	mg/kg	0.0113	0.0358	1	M8270C	10/5/2017	10/5/2017	NJC	1
Naphthalene	< 0.0153	mg/kg	0.0153	0.0486	1	M8270C	10/5/2017	10/5/2017	NJC	1
Phenanthrene	< 0.0111	mg/kg	0.0111	0.0352	1	M8270C	10/5/2017	10/5/2017	NJC	1
Pyrene	< 0.0153	mg/kg	0.0153	0.0487	1	M8270C	10/5/2017	10/5/2017	NJC	1
P VOC										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672K
 Sample ID G-4-3
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.8	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672L
 Sample ID G-4-5
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	85.7	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672M
 Sample ID G-5-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.6	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672N
 Sample ID G-5-4
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.2	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 50336720
 Sample ID G-6-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	92.1	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 5033672P
 Sample ID G-6-4
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.0	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/5/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672Q
 Sample ID G-7-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.5	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 5033672R
 Sample ID G-7-3
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.0	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/5/2017	TCC	1

Project #

Lab Code 5033672S
 Sample ID HA-1-1
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	69.4	%			1	5021		10/4/2017	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 5033672T
 Sample ID MEOH BLANK
 Sample Matrix Soil
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		10/4/2017	TCC	1
Ethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.0079	0.025	1	GRO95/8021		10/4/2017	TCC	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		10/4/2017	TCC	1
Toluene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		10/4/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.01	0.032	1	GRO95/8021		10/4/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		10/4/2017	TCC	1
m&p-Xylene	< 0.05	mg/kg	0.012	0.037	1	GRO95/8021		10/4/2017	TCC	1
o-Xylene	< 0.025	mg/kg	0.015	0.047	1	GRO95/8021		10/4/2017	TCC	1

Lab Code 5033672U
 Sample ID G-2-W
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	0.47 "J"	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	0.38 "J"	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 5033672V
 Sample ID G-4-W
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 5033672W
 Sample ID G-1-W
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	5.4	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	90	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	2.26 "J"	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	4.8	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	79	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	22.5	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	146	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	38	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 5033672X
 Sample ID G-3-W
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/12/2017	TCC	1
Ethylbenzene	0.76 "J"	ug/l	0.56	1.77	1	GRO95/8021		10/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/12/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/12/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/12/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/12/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/12/2017	TCC	1
m&p-Xylene	3.06 "J"	ug/l	1.1	3.49	1	GRO95/8021		10/12/2017	TCC	1
o-Xylene	1.33 "J"	ug/l	0.61	1.92	1	GRO95/8021		10/12/2017	TCC	1

Project Name WAUBEKA MILL
Project #

Invoice # E33672

Lab Code 5033672Y
Sample ID G-6-W
Sample Matrix Water
Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/12/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/12/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/12/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/12/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/12/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/12/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/12/2017	TCC	1
m&p-Xylene	1.67 "J"	ug/l	1.1	3.49	1	GRO95/8021		10/12/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/12/2017	TCC	1

Lab Code 5033672Z
Sample ID HA-1-W
Sample Matrix Water
Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 533672AA
Sample ID HA-2-W
Sample Matrix Water
Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E33672

Lab Code 533672BB
 Sample ID HA-3-W
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

Lab Code 533672CC
 Sample ID TRIP BLANK
 Sample Matrix Water
 Sample Date 10/2/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.27	ug/l	0.27	0.87	1	GRO95/8021		10/5/2017	TCC	1
Ethylbenzene	< 0.56	ug/l	0.56	1.77	1	GRO95/8021		10/5/2017	TCC	1
Methyl tert-butyl ether (MTBE)	< 0.43	ug/l	0.43	1.36	1	GRO95/8021		10/5/2017	TCC	1
Naphthalene	< 1.7	ug/l	1.7	5.27	1	GRO95/8021		10/5/2017	TCC	1
Toluene	< 0.33	ug/l	0.33	1.06	1	GRO95/8021		10/5/2017	TCC	1
1,2,4-Trimethylbenzene	< 0.56	ug/l	0.56	1.78	1	GRO95/8021		10/5/2017	TCC	1
1,3,5-Trimethylbenzene	< 0.58	ug/l	0.58	1.84	1	GRO95/8021		10/5/2017	TCC	1
m&p-Xylene	< 1.1	ug/l	1.1	3.49	1	GRO95/8021		10/5/2017	TCC	1
o-Xylene	< 0.61	ug/l	0.61	1.92	1	GRO95/8021		10/5/2017	TCC	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code **Comment**

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Account No. : _____ Quote No.: _____
Project #: _____
Sampler: (signature) *Matthew C. Mill*

Project (Name / Location): *Waukegan Mill / Waukegan, WI*

Reports To: *Jacquelyn Voeks* Invoice To: *Jacquelyn Voeks*

Company: _____ Company: *clo METCO*

Address: *680 Emerald Pt, Building 5, Cando 7* Address: *709 Gillette St., Ste 3*

City State Zip: *Hollister, MO 65672* City State Zip: *LaCrosse, WI 54601*

Phone: *262-707-0735* Phone: *608-781-8879*

FAX: _____ FAX: _____

Analysis Requested		Other Analysis												
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/ FID
		<input checked="" type="checkbox"/>			<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>							
								<input checked="" type="checkbox"/>						
					<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
								<input checked="" type="checkbox"/>						
								<input checked="" type="checkbox"/>						
									<input checked="" type="checkbox"/>					
										<input checked="" type="checkbox"/>				
											<input checked="" type="checkbox"/>			
												<input checked="" type="checkbox"/>		
													<input checked="" type="checkbox"/>	

Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
<i>5033672-1</i>	<i>G-1-1</i>	<i>10/2</i>	<i>9:35</i>		<input checked="" type="checkbox"/>	<i>N</i>	<i>3</i>	<i>S</i>	<i>MeOH/None</i>
<i>B</i>	<i>G-1-3</i>		<i>9:40</i>				<i>1</i>		<i>MeOH</i>
<i>C</i>	<i>G-1-5</i>		<i>9:50</i>				<i>2</i>		<i>None</i>
<i>D</i>	<i>G-2-1</i>		<i>10:00</i>				<i>3</i>		<i>None</i>
<i>E</i>	<i>G-2-3</i>		<i>10:15</i>				<i>1</i>		
<i>F</i>	<i>G-2-5</i>		<i>10:20</i>				<i>1</i>		
<i>G</i>	<i>G-3-1</i>		<i>10:35</i>				<i>3</i>		<i>None</i>
<i>H</i>	<i>G-3-3</i>		<i>10:45</i>				<i>1</i>		
<i>I</i>	<i>G-3-5</i>		<i>10:50</i>				<i>1</i>		
<i>J</i>	<i>G-4-1</i>		<i>11:05</i>		<input checked="" type="checkbox"/>		<i>3</i>		<i>None</i>

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Agent Status *Lab to send copy of Report to METCO/Jean P (Invoice to METCO)*

U&C Rates

Sample Integrity - To be completed by receiving lab

Method of shipment: *GC*

Temp. of Temp. Blank: _____ °C On Ice:

Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *Matthew C. Mill* Time: *10:00* Date: *10/3/17*

Received By: (sign) _____ Time: *8:00* Date: *10/4/17*

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Lab I.D. # _____
Account No. : _____ Quote No.: _____
Project #: _____
Sampler: (signature) *Matthew C. Middle*

Project (Name / Location): *Waukegan Mill / Waukegan, WI*

Reports To:	Invoice To:
Company:	Company:
Address:	Address:
City State Zip:	City State Zip:
Phone:	Phone:
FAX:	FAX:

Analysis Requested										Other Analysis															
Lab I.D.	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation	DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 8260)	8-PCRA METALS	PID/FID	
5033672k	G-4-3	10/2	11:10		d	N	1	S	MeOH									X							
	G-4-5		11:15				1											X							
	G-5-1		12:05				1											X							
	G-5-4		12:10				1											X							
	G-6-1		12:15				1											X							
	G-6-4		12:20				1											X							
	G-7-1		12:45				1											X							
	G-7-3		12:55				1											X							
	HA-1-1		1:05				1											X							
	MeOH Blank						1											X							

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

See Page 1

Sample Integrity - To be completed by receiving lab	Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
	<i>Matthew C. Middle</i>	10:00	10/3/17			
Method of Shipment: <i>GL</i>						
Temp. of Temp. Blank: _____ °C On Ice: <input checked="" type="checkbox"/>						
Cooler seal intact upon receipt: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No						
Received in Laboratory By: <i>[Signature]</i>	Time: <i>8:00</i>	Date: <i>10/4/17</i>				

CHAIN OF CUSTODY RECORD

Synergy

Chain # No 305

Page 3 of 3

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

2 Normal Turn Around

Lab ID: _____
Account No.: _____ Quote No.: _____
Project #: _____
Sampler: (signature) *Mitchell C. Middle*

Project (Name / Location): *Waukegan Hill / Waukegan, WI*

Reports To: _____ Invoice To: _____
Company: _____ Company: _____
Address: *See Page 1* Address: _____
City State Zip: _____ City State Zip: *See Page 1*
Phone: _____ Phone: _____
FAX: _____ FAX: _____

Analysis Requested										Other Analysis										
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 642.2)	VOC (EPA 8260)	8-PCRA METALS							PID/ FID
								X												

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
S035672	G-2-W	10/17	10:30		K	N	3	GW	HCL
	G-4-W		11:50						
	G-1-W		11:35						
	G-3-W		11:30						
	G-6-W		12:40						
	HA-1-W		1:10						
	HA-2-W		2:30						
	HA-3-W		2:45						
	Trip Blank						1		

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

See Page 1

Sample Integrity: To be completed by receiving lab.
Method of Shipment: *GC*
Temp. of Temp. Blank: _____ °C On Ice:
Cooler seal intact upon receipt: Yes No

Relinquished By: (sign) *Mitchell C. Middle* Time: *10:00am* Date: *10/17/17*

Received By: _____ Time: *8:00* Date: *10/4/18*

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JACQUELYN VOEKS
JACQUELYN VOEKS
680 EMERALD PT
HOLLISTER, MO 65672

Report Date 02-Apr-18

Project Name WAUBEKA MILL
Project #

Invoice # E34379

Lab Code 5034379A
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 3/16/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.2	%			1	5021		3/20/2018	NJC	1
Organic										
PVOC + Naphthalene										
Benzene	1.95	mg/kg	0.095	0.3	10	GRO95/8021		3/27/2018	CJR	1
Ethylbenzene	18.4	mg/kg	0.16	0.5	10	GRO95/8021		3/27/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.11	0.34	10	GRO95/8021		3/27/2018	CJR	1
Naphthalene	3.8	mg/kg	0.22	0.7	10	GRO95/8021		3/27/2018	CJR	1
Toluene	40	mg/kg	0.13	0.41	10	GRO95/8021		3/27/2018	CJR	1
1,2,4-Trimethylbenzene	32	mg/kg	0.19	0.6	10	GRO95/8021		3/27/2018	CJR	1
1,3,5-Trimethylbenzene	10.9	mg/kg	0.096	0.31	10	GRO95/8021		3/27/2018	CJR	1
m&p-Xylene	51	mg/kg	0.13	0.42	10	GRO95/8021		3/27/2018	CJR	1
o-Xylene	15.2	mg/kg	0.062	0.2	10	GRO95/8021		3/27/2018	CJR	1

Project Name WAUBEKA MILL
 Project #

Invoice # E34379

Lab Code 5034379B
 Sample ID DRUM COMP
 Sample Matrix Soil
 Sample Date 3/16/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.0	%			1	5021		3/20/2018	NJC	1
Inorganic										
Metals										
TCLP Lead	< 0.1	mg/l		0.1	1	6010B		3/29/2018	ESC	1
Organic										
General										
Diesel Range Organics	56.7	mg/kg	1.3	4.14	1	DRO95		3/28/2018	NJC	1
Gasoline Range Organics	116	mg/kg	1.65	5.26	1	GRO95/8021		3/27/2018	CJR	1
TCLP										
TCLP Benzene	< 0.05	mg/l	0.05		1	8260B		3/28/2018	ESC	1
Lab Code 5034379C										
Sample ID METH BLANK										
Sample Matrix Soil										
Sample Date 3/16/2018										

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.0095	0.03	1	GRO95/8021		3/26/2018	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.016	0.05	1	GRO95/8021		3/26/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.011	0.034	1	GRO95/8021		3/26/2018	CJR	1
Naphthalene	< 0.025	mg/kg	0.022	0.07	1	GRO95/8021		3/26/2018	CJR	1
Toluene	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		3/26/2018	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.019	0.06	1	GRO95/8021		3/26/2018	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.0096	0.031	1	GRO95/8021		3/26/2018	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.013	0.042	1	GRO95/8021		3/26/2018	CJR	1
o-Xylene	< 0.025	mg/kg	0.0062	0.02	1	GRO95/8021		3/26/2018	CJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

ESC denotes sub contract lab - Certification #998093910

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Chain # No 297
Page 1 of 1

Sample Handling Request
Rush Analysis Date Required (rushes accepted only with prior authorization)
 Normal Turn Around

Account No.:
Quote No.:
Project #:
Sampler: (signature) *[Signature]*

Project (Name / Location): Waubesa Mill
Reports To: Jacquelyn Vooks Invoice To: Jacquelyn Vooks
Company
Company C/O METCO
Address 680 Emerald Pt, Bldg 5, Condo 7 Address 709 Gillette St, Ste 3
City State Zip Hollister, MO 65672 City State Zip La Crosse, WI 54603
Phone (262) 707-0735 Phone (608) 781-8879
FAX
FAX

Analysis Requested													Other Analysis			
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 542.2)	VOC (EPA 9260)	8-PCRA METALS	TCLP-Benzene	TCLP-Lead	PID/FID
														<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
														<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
	MW-1-2	3/16	9:20		X		2	S	M&G
	Drum Comp	↓	10:00	X			7	S	↓/None
	Math Blank	↓					1		↓

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)

Lab to send copy of report to METCO
U-C Rates
Agent Status

Relinquished By: (sign) *[Signature]* Time 8:00 AM Date 3/19/18
Received By: (sign) *[Signature]* Time: 8:00 Date: 3/20/18

Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 *P 920-830-2455 * F 920-733-0631

JACQUELYN VOEKS
 JACQUELYN VOEKS
 680 EMERALD PT
 HOLLISTER, MO 65672

Report Date 23-May-18

Project Name WAUBEKA MILL
 Project #

Invoice # E34604

Lab Code 5034604A
 Sample ID MW-1
 Sample Matrix Water
 Sample Date 5/7/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.22	mg/l	0.03	0.1	1	200.7		5/16/2018	CWT	1
Lead, Dissolved	< 0.9	ug/L	0.9	3	1	7421		5/17/2018	CWT	1
Manganese, Dissolved	276	ug/L	4.2	13.8	1	200.7		5/16/2018	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.40	ug/l	0.4	1.25	50	M8270C	5/9/2018	5/10/2018	NJC	1
Acenaphthylene	< 0.45	ug/l	0.45	1.4	50	M8270C	5/9/2018	5/10/2018	NJC	1
Anthracene	< 0.45	ug/l	0.45	1.5	50	M8270C	5/9/2018	5/10/2018	NJC	1
Benzo(a)anthracene	< 0.85	ug/l	0.85	2.7	50	M8270C	5/9/2018	5/10/2018	NJC	1
Benzo(a)pyrene	< 0.85	ug/l	0.85	2.75	50	M8270C	5/9/2018	5/10/2018	NJC	1
Benzo(b)fluoranthene	< 1.00	ug/l	1	3.15	50	M8270C	5/9/2018	5/10/2018	NJC	1
Benzo(g,h,i)perylene	< 0.55	ug/l	0.55	1.8	50	M8270C	5/9/2018	5/10/2018	NJC	1
Benzo(k)fluoranthene	< 0.70	ug/l	0.7	2.2	50	M8270C	5/9/2018	5/10/2018	NJC	1
Chrysene	< 0.95	ug/l	0.95	3.1	50	M8270C	5/9/2018	5/10/2018	NJC	1
Dibenzo(a,h)anthracene	< 0.50	ug/l	0.5	1.55	50	M8270C	5/9/2018	5/10/2018	NJC	1
Fluoranthene	< 1.55	ug/l	1.55	4.9	50	M8270C	5/9/2018	5/10/2018	NJC	1
Fluorene	< 0.55	ug/l	0.55	1.7	50	M8270C	5/9/2018	5/10/2018	NJC	1
Indeno(1,2,3-cd)pyrene	< 0.60	ug/l	0.6	1.9	50	M8270C	5/9/2018	5/10/2018	NJC	1
1-Methyl naphthalene	41.0	ug/l	1.195	3.8	50	M8270C	5/9/2018	5/10/2018	NJC	1
2-Methyl naphthalene	76.0	ug/l	1.18	3.755	50	M8270C	5/9/2018	5/10/2018	NJC	1
Naphthalene	237	ug/l	1.15	3.65	50	M8270C	5/9/2018	5/10/2018	NJC	1
Phenanthrene	< 1.25	ug/l	1.25	4.05	50	M8270C	5/9/2018	5/10/2018	NJC	1
Pyrene	< 1.50	ug/l	1.5	4.75	50	M8270C	5/9/2018	5/10/2018	NJC	1
VOC's										
Benzene	38	ug/l	4.4	14.2	20	8260B		5/16/2018	CJR	1
Bromobenzene	< 8.8	ug/l	8.8	27.6	20	8260B		5/16/2018	CJR	1
Bromodichloromethane	< 6.6	ug/l	6.6	21.2	20	8260B		5/16/2018	CJR	1
Bromoform	< 9	ug/l	9	28.8	20	8260B		5/16/2018	CJR	1

Project Name WAUBEKA MILL
 Project #

Invoice # E34604

Lab Code 5034604A
 Sample ID MW-1
 Sample Matrix Water
 Sample Date 5/7/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
tert-Butylbenzene	< 5	ug/l	5	16	20	8260B	5/16/2018	5/16/2018	CJR	1
sec-Butylbenzene	< 15.8	ug/l	15.8	50.6	20	8260B	5/16/2018	5/16/2018	CJR	1
n-Butylbenzene	60	ug/l	14.2	45	20	8260B	5/16/2018	5/16/2018	CJR	1
Carbon Tetrachloride	< 6.2	ug/l	6.2	19.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Chlorobenzene	< 5.2	ug/l	5.2	16.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Chloroethane	< 12.2	ug/l	12.2	39	20	8260B	5/16/2018	5/16/2018	CJR	1
Chloroform	< 5.2	ug/l	5.2	16.4	20	8260B	5/16/2018	5/16/2018	CJR	1
Chloromethane	< 10.8	ug/l	10.8	34.4	20	8260B	5/16/2018	5/16/2018	CJR	1
2-Chlorotoluene	< 6.2	ug/l	6.2	19.6	20	8260B	5/16/2018	5/16/2018	CJR	1
4-Chlorotoluene	< 5.2	ug/l	5.2	16.6	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2-Dibromo-3-chloropropane	< 59.2	ug/l	59.2	188.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Dibromochloromethane	< 4.4	ug/l	4.4	13.8	20	8260B	5/16/2018	5/16/2018	CJR	1
1,4-Dichlorobenzene	< 14	ug/l	14	44.4	20	8260B	5/16/2018	5/16/2018	CJR	1
1,3-Dichlorobenzene	< 17	ug/l	17	54	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2-Dichlorobenzene	< 17.2	ug/l	17.2	54.8	20	8260B	5/16/2018	5/16/2018	CJR	1
Dichlorodifluoromethane	< 6.4	ug/l	6.4	20.4	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2-Dichloroethane	< 5	ug/l	5	15.6	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1-Dichloroethane	< 7.2	ug/l	7.2	22.8	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1-Dichloroethene	< 8.4	ug/l	8.4	26.8	20	8260B	5/16/2018	5/16/2018	CJR	1
cis-1,2-Dichloroethene	< 7.4	ug/l	7.4	23.2	20	8260B	5/16/2018	5/16/2018	CJR	1
trans-1,2-Dichloroethene	< 6.8	ug/l	6.8	21.4	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2-Dichloropropane	< 8.8	ug/l	8.8	27.8	20	8260B	5/16/2018	5/16/2018	CJR	1
1,3-Dichloropropane	< 6	ug/l	6	18.8	20	8260B	5/16/2018	5/16/2018	CJR	1
trans-1,3-Dichloropropene	< 6.4	ug/l	6.4	20.2	20	8260B	5/16/2018	5/16/2018	CJR	1
cis-1,3-Dichloropropene	< 5.2	ug/l	5.2	16.2	20	8260B	5/16/2018	5/16/2018	CJR	1
Di-isopropyl ether	< 4.2	ug/l	4.2	13.2	20	8260B	5/16/2018	5/16/2018	CJR	1
EDB (1,2-Dibromoethane)	< 6.8	ug/l	6.8	21.8	20	8260B	5/16/2018	5/16/2018	CJR	1
Ethylbenzene	1670	ug/l	5.2	16.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Hexachlorobutadiene	< 26.8	ug/l	26.8	85.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Isopropylbenzene	62	ug/l	15.6	49.4	20	8260B	5/16/2018	5/16/2018	CJR	1
p-Isopropyltoluene	5.2 "J"	ug/l	4.8	15.2	20	8260B	5/16/2018	5/16/2018	CJR	1
Methylene chloride	< 26.4	ug/l	26.4	84.2	20	8260B	5/16/2018	5/16/2018	CJR	1
Methyl tert-butyl ether (MTBE)	< 5.6	ug/l	5.6	17.8	20	8260B	5/16/2018	5/16/2018	CJR	1
Naphthalene	350	ug/l	42	133	20	8260B	5/16/2018	5/16/2018	CJR	1
n-Propylbenzene	249	ug/l	12.2	39	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1,2,2-Tetrachloroethane	< 6	ug/l	6	19.4	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1,1,2-Tetrachloroethane	< 7	ug/l	7	22.6	20	8260B	5/16/2018	5/16/2018	CJR	1
Tetrachloroethene	< 7.6	ug/l	7.6	24.2	20	8260B	5/16/2018	5/16/2018	CJR	1
Toluene	1930	ug/l	3.8	12	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2,4-Trichlorobenzene	< 23	ug/l	23	73.4	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2,3-Trichlorobenzene	< 34.2	ug/l	34.2	108.6	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1,1-Trichloroethane	< 6.6	ug/l	6.6	21	20	8260B	5/16/2018	5/16/2018	CJR	1
1,1,2-Trichloroethane	< 8.4	ug/l	8.4	26.4	20	8260B	5/16/2018	5/16/2018	CJR	1
Trichloroethene (TCE)	< 6	ug/l	6	18.8	20	8260B	5/16/2018	5/16/2018	CJR	1
Trichlorofluoromethane	< 7	ug/l	7	22	20	8260B	5/16/2018	5/16/2018	CJR	1
1,2,4-Trimethylbenzene	2030	ug/l	16	51	20	8260B	5/16/2018	5/16/2018	CJR	1
1,3,5-Trimethylbenzene	540	ug/l	12.6	40	20	8260B	5/16/2018	5/16/2018	CJR	1
Vinyl Chloride	< 4	ug/l	4	13	20	8260B	5/16/2018	5/16/2018	CJR	1
m&p-Xylene	3600	ug/l	8.6	27.6	20	8260B	5/16/2018	5/16/2018	CJR	1
o-Xylene	1240	ug/l	5.8	18.6	20	8260B	5/16/2018	5/16/2018	CJR	1
SUR - Dibromofluoromethane	106	REC %	-	-	20	8260B	5/16/2018	5/16/2018	CJR	1
SUR - Toluene-d8	104	REC %	-	-	20	8260B	5/16/2018	5/16/2018	CJR	1

Project Name WAUBEKA MILL
Project #

Invoice # E34604

Lab Code 5034604A
Sample ID MW-1
Sample Matrix Water
Sample Date 5/7/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - 4-Bromofluorobenzene	95	REC %			20	8260B		5/16/2018	CJR	1
SUR - 1,2-Dichloroethane-d4	103	REC %			20	8260B		5/16/2018	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate, Dissolved		< 0.36	mg/l	0.36	1.15	1	353.2	5/22/2018	NJC	1
Sulfate, Filtered	44.5		mg/l	2.7	8.6	2	ASTM D516-	5/11/2018	NJC	1

Project Name WAUBEKA MILL
 Project #

Invoice # E34604

Lab Code 5034604B
 Sample ID TB
 Sample Matrix Water
 Sample Date 5/7/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.22	ug/l	0.22	0.71	1	8260B		5/11/2018	MJR	1
Bromobenzene	< 0.44	ug/l	0.44	1.38	1	8260B		5/11/2018	MJR	1
Bromodichloromethane	< 0.33	ug/l	0.33	1.06	1	8260B		5/11/2018	MJR	1
Bromoform	< 0.45	ug/l	0.45	1.44	1	8260B		5/11/2018	MJR	1
tert-Butylbenzene	< 0.25	ug/l	0.25	0.8	1	8260B		5/11/2018	MJR	1
sec-Butylbenzene	< 0.79	ug/l	0.79	2.53	1	8260B		5/11/2018	MJR	1
n-Butylbenzene	< 0.71	ug/l	0.71	2.25	1	8260B		5/11/2018	MJR	1
Carbon Tetrachloride	< 0.31	ug/l	0.31	0.98	1	8260B		5/11/2018	MJR	1
Chlorobenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/11/2018	MJR	1
Chloroethane	< 0.61	ug/l	0.61	1.95	1	8260B		5/11/2018	MJR	1
Chloroform	< 0.26	ug/l	0.26	0.82	1	8260B		5/11/2018	MJR	1
Chloromethane	< 0.54	ug/l	0.54	1.72	1	8260B		5/11/2018	MJR	1
2-Chlorotoluene	< 0.31	ug/l	0.31	0.98	1	8260B		5/11/2018	MJR	1
4-Chlorotoluene	< 0.26	ug/l	0.26	0.83	1	8260B		5/11/2018	MJR	1
1,2-Dibromo-3-chloropropane	< 2.96	ug/l	2.96	9.43	1	8260B		5/11/2018	MJR	1
Dibromochloromethane	< 0.22	ug/l	0.22	0.69	1	8260B		5/11/2018	MJR	1
1,4-Dichlorobenzene	< 0.7	ug/l	0.7	2.22	1	8260B		5/11/2018	MJR	1
1,3-Dichlorobenzene	< 0.85	ug/l	0.85	2.7	1	8260B		5/11/2018	MJR	1
1,2-Dichlorobenzene	< 0.86	ug/l	0.86	2.74	1	8260B		5/11/2018	MJR	1
Dichlorodifluoromethane	< 0.32	ug/l	0.32	1.02	1	8260B		5/11/2018	MJR	1
1,2-Dichloroethane	< 0.25	ug/l	0.25	0.78	1	8260B		5/11/2018	MJR	1
1,1-Dichloroethane	< 0.36	ug/l	0.36	1.14	1	8260B		5/11/2018	MJR	1
1,1-Dichloroethene	< 0.42	ug/l	0.42	1.34	1	8260B		5/11/2018	MJR	1
cis-1,2-Dichloroethene	< 0.37	ug/l	0.37	1.16	1	8260B		5/11/2018	MJR	1
trans-1,2-Dichloroethene	< 0.34	ug/l	0.34	1.07	1	8260B		5/11/2018	MJR	1
1,2-Dichloropropane	< 0.44	ug/l	0.44	1.39	1	8260B		5/11/2018	MJR	1
1,3-Dichloropropane	< 0.3	ug/l	0.3	0.94	1	8260B		5/11/2018	MJR	1
trans-1,3-Dichloropropene	< 0.32	ug/l	0.32	1.01	1	8260B		5/11/2018	MJR	1
cis-1,3-Dichloropropene	< 0.26	ug/l	0.26	0.81	1	8260B		5/11/2018	MJR	1
Di-isopropyl ether	< 0.21	ug/l	0.21	0.66	1	8260B		5/11/2018	MJR	1
EDB (1,2-Dibromoethane)	< 0.34	ug/l	0.34	1.09	1	8260B		5/11/2018	MJR	1
Ethylbenzene	< 0.26	ug/l	0.26	0.83	1	8260B		5/11/2018	MJR	1
Hexachlorobutadiene	< 1.34	ug/l	1.34	4.28	1	8260B		5/11/2018	MJR	1
Isopropylbenzene	< 0.78	ug/l	0.78	2.47	1	8260B		5/11/2018	MJR	1
p-Isopropyltoluene	< 0.24	ug/l	0.24	0.76	1	8260B		5/11/2018	MJR	1
Methylene chloride	< 1.32	ug/l	1.32	4.21	1	8260B		5/11/2018	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.28	ug/l	0.28	0.89	1	8260B		5/11/2018	MJR	1
Naphthalene	< 2.1	ug/l	2.1	6.65	1	8260B		5/11/2018	MJR	1
n-Propylbenzene	< 0.61	ug/l	0.61	1.95	1	8260B		5/11/2018	MJR	1
1,1,2,2-Tetrachloroethane	< 0.3	ug/l	0.3	0.97	1	8260B		5/11/2018	MJR	1
1,1,1,2-Tetrachloroethane	< 0.35	ug/l	0.35	1.13	1	8260B		5/11/2018	MJR	1
Tetrachloroethene	< 0.38	ug/l	0.38	1.21	1	8260B		5/11/2018	MJR	1
Toluene	< 0.19	ug/l	0.19	0.6	1	8260B		5/11/2018	MJR	1
1,2,4-Trichlorobenzene	< 1.15	ug/l	1.15	3.67	1	8260B		5/11/2018	MJR	1
1,2,3-Trichlorobenzene	< 1.71	ug/l	1.71	5.43	1	8260B		5/11/2018	MJR	1
1,1,1-Trichloroethane	< 0.33	ug/l	0.33	1.05	1	8260B		5/11/2018	MJR	1
1,1,2-Trichloroethane	< 0.42	ug/l	0.42	1.32	1	8260B		5/11/2018	MJR	1
Trichloroethene (TCE)	< 0.3	ug/l	0.3	0.94	1	8260B		5/11/2018	MJR	1
Trichlorofluoromethane	< 0.35	ug/l	0.35	1.1	1	8260B		5/11/2018	MJR	1
1,2,4-Trimethylbenzene	< 0.8	ug/l	0.8	2.55	1	8260B		5/11/2018	MJR	1

Project Name WAUBEKA MILL
 Project #

Invoice # E34604

Lab Code 5034604B
 Sample ID TB
 Sample Matrix Water
 Sample Date 5/7/2018

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
1,3,5-Trimethylbenzene	< 0.63	ug/l	0.63		2 1	8260B		5/11/2018	MJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.65	1	8260B		5/11/2018	MJR	1
m&p-Xylene	< 0.43	ug/l	0.43	1.38	1	8260B		5/11/2018	MJR	1
o-Xylene	< 0.29	ug/l	0.29	0.93	1	8260B		5/11/2018	MJR	1
SUR - 1,2-Dichloroethane-d4	107	REC %			1	8260B		5/11/2018	MJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		5/11/2018	MJR	1
SUR - Toluene-d8	86	REC %			1	8260B		5/11/2018	MJR	1
SUR - Dibromofluoromethane	116	REC %			1	8260B		5/11/2018	MJR	1

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

Code Comment

1 Laboratory QC within limits.

CWT denotes sub contract lab - Certification #445126660

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

Michael Ricker

Environmental Lab, Inc.

1990 Prospect Ct. • Appleton, WI 54914
920-830-2455 • FAX 920-733-0631

Sample Handling Request

Rush Analysis Date Required _____
(Rushes accepted only with prior authorization)

Normal Turn Around

Account No. : _____ Quote No.: _____
Project #: _____
Sampler: (signature) *Jon Jenn*

Project (Name / Location): *Waubeka Mill / Waubeka*
Reports To: *Jacquelyn Voeks* Invoice To: *Jacquelyn Voeks*
Company: _____ Company: *C/O METCO*
Address: *680 Emerald Pt. Building 5, Condo* Address: *709 Gillette St, Ste. 3*
City State Zip: *Hallister, MD 65672* City State Zip: *La Crosse, WI 54603*
Phone: _____ Phone: _____
FAX: _____ FAX: _____

Analysis Requested										Other Analysis						
DRO (Mod DRO Sep 95)	GRO (Mod GRO Sep 95)	LEAD (Dissolved)	NITRATE/NITRITE	OIL & GREASE	PAH (EPA 8270)	PCB	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC DW (EPA 824.2)	VOC (EPA 8260)	8-RORA METALS	Dissolved Iron	Dissolved Manganese	PID/ FID
		X	X	X					X		X	X		X	X	
											X					

Lab ID	Sample I.D.	Collection Date	Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
	<i>MW-1</i>	<i>5-7</i>	<i>300</i>			<i>Y</i>	<i>7</i>	<i>GW</i>	<i>10% H₂SO₄</i>
	<i>TB</i>						<i>1</i>		<i>HNO₃, None</i>

Comments/Special Instructions (*Specify groundwater "GW", Drinking Water "DW", Waste Water "WW", Soil "S", Air "A", Oil, Sludge etc.)
Lab to send copy of report to METCO / Jason P. (Invoice to METCO)
** UTC rates apply*
** Agent status*

Sample Integrity: To be completed by receiving lab
Method of shipment: _____
Temp of Temp Blank: _____
Cables and intact upon receipt: Yes No

Relinquished By: (sign) *Jon Jenn* Time: *7:45 AM* Date: *5-8-18*
Received By: (sign) _____ Time: *8:00* Date: *5/9/18*

Received in Laboratory By: (sign) _____ Time: _____ Date: _____

Site Investigation Report - METCO

Waubeka Mill Inc.

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

G:\Text\WDR WELL CONSTRUCTION - BLANK 11/11/2003 11:06:08 AM

State of Wisconsin
Department of Natural Resources

Route To:

Watershed/Wastewater Waste Management
Remediation/Redevelopment Other

MONITORING WELL CONSTRUCTION
Form 4400-113A Rev. 7-98

SES Project Number **507.60**

Facility/Project Name Former Waubeka Mill		Local Grid Location of Well ft. <input type="checkbox"/> N. <input type="checkbox"/> E. <input type="checkbox"/> S. <input type="checkbox"/> W.		Well Name MW1	
Facility License, Permit or Monitoring No.		Grid Origin Location (estimated: <input type="checkbox"/>)		Well Location <input type="checkbox"/>	
Facility ID		St. Plane _____ ft. N, _____ ft. E. S/C/N		Date Well Installed 03/16/2018 m m d d y y y y	
Type of Well Well Code 11 / MW		Section Location of Waste/Source 1/4 of _____ 1/4 of Sec. _____ T. _____ N, R. _____ <input type="checkbox"/> E <input type="checkbox"/> W		Well Installed By: Name (first,last) and Firm Robert Rector	
Distance From Waste/Source _____ ft.		Enf. Stds. Apply <input type="checkbox"/>		Soils & Engineering Services, Inc.	
		Location of Well Relative to Waste/Source u <input type="checkbox"/> Upgradient s <input type="checkbox"/> Sidegradient d <input type="checkbox"/> Downgradient n <input type="checkbox"/> Not Known		Gov. Lot Number _____	

<p>A. Protective pipe, top elevation _____ ft. MSL</p> <p>B. Well casing, top elevation _____ ft. MSL</p> <p>C. Land surface elevation _____ ft. MSL</p> <p>D. Surface seal, bottom _____ ft. MSL or 1.6 ft.</p> <div style="border: 1px solid black; padding: 5px; margin: 5px 0;"> <p>12. USCS classification of soil near screen: GP <input type="checkbox"/> GM <input type="checkbox"/> GC <input type="checkbox"/> GW <input type="checkbox"/> SW <input type="checkbox"/> SP <input type="checkbox"/> SM <input type="checkbox"/> SC <input type="checkbox"/> ML <input checked="" type="checkbox"/> MH <input type="checkbox"/> CL <input checked="" type="checkbox"/> CH <input type="checkbox"/> Bedrock <input type="checkbox"/></p> <p>13. Sieve analysis attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>14. Drilling method used: Rotary <input type="checkbox"/> 50 Hollow Stem Auger <input checked="" type="checkbox"/> 41 Other <input type="checkbox"/></p> <p>15. Drilling fluid used: Water <input type="checkbox"/> 02 Air <input type="checkbox"/> 01 Drilling Mud <input type="checkbox"/> 03 None <input checked="" type="checkbox"/> 99</p> <p>16. Drilling additives used? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No</p> <p>Describe _____</p> <p>17. Source of water (attach analysis): _____</p> </div> <p>E. Bentonite seal, top _____ ft. MSL or 5.5 ft.</p> <p>F. Fine sand, top _____ ft. MSL or 5.5 ft.</p> <p>G. Filter pack, top _____ ft. MSL or 7.4 ft.</p> <p>H. Screen joint, top _____ ft. MSL or 10.2 ft.</p> <p>I. Well bottom _____ ft. MSL or 20.5 ft.</p> <p>J. Filter pack, bottom _____ ft. MSL or 21.0 ft.</p> <p>K. Borehole, bottom _____ ft. MSL or 21.0 ft. (If multiple diameters, note diameters and to what depth for each diameter)</p> <p>L. Borehole, diameter 7.6 in.</p> <p>M. O.D. well casing 2.38 in.</p> <p>N. I.D. well casing 2.04 in.</p>		<p>1. Cap and lock? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>2. Protective cover pipe: a. Inside diameter: 10 in. b. Length: 1.1 ft. c. Material: Steel <input checked="" type="checkbox"/> 04 Other <input type="checkbox"/></p> <p>d. Additional protection? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If yes, describe: _____</p> <p>3. Surface seal: Bentonite <input type="checkbox"/> 30 Concrete <input checked="" type="checkbox"/> 01 Other <input type="checkbox"/></p> <p>4. Material between well casing and protective pipe: Bentonite <input checked="" type="checkbox"/> 30 Other <input type="checkbox"/></p> <p>5. Annular space seal: a. Granular/Chipped Bentonite <input checked="" type="checkbox"/> 33 b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry <input type="checkbox"/> 35 c. _____ Lbs/gal mud weight Bentonite slurry <input type="checkbox"/> 31 d. _____ % Bentonite Bentonite-cement grout <input type="checkbox"/> 50 e. 1.1 Ft³ volume added for any of the above f. How installed: Tremie <input type="checkbox"/> 01 Tremie pumped <input type="checkbox"/> 02 Gravity <input checked="" type="checkbox"/> 08</p> <p>6. Bentonite seal: a. Bentonite granules <input type="checkbox"/> 33 b. <input type="checkbox"/> 1/4 in. <input type="checkbox"/> 3/8 in. <input type="checkbox"/> 1/2 in. Bentonite chips <input type="checkbox"/> 32 c. _____ Other <input type="checkbox"/></p> <p>7. Fine sand material: Manufacturer, product name and mesh size a. Red Flint #15 b. Volume added 0.5 ft³</p> <p>8. Filter pack material: Manufacturer, product name and mesh size a. Red Flint #40 b. Volume added 3.9 ft³</p> <p>9. Well casing: Flush threaded PVC schedule 40 <input checked="" type="checkbox"/> 23 Flush threaded PVC schedule 80 <input type="checkbox"/> 24 Other <input type="checkbox"/></p> <p>10. Screen material: Sch. 40 PVC a. Screen Type: Factory cut <input checked="" type="checkbox"/> 11 Continuous slot <input type="checkbox"/> 01 Other <input type="checkbox"/> b. Manufacturer Monoflex c. Slot size: 0.010 in. d. Slotted length: 9.7 ft.</p> <p>11. Backfill material (below filter pack): None <input checked="" type="checkbox"/> 14 Other <input type="checkbox"/></p>
---	--	--

I hereby certify that the information on this form is true and correct to the best of my knowledge.

Signature *Alan E. Prichard* Firm **Soils & Engineering Services, Inc.** Tel: (608) 274-7601
 1102 Stewart Street, Madison, Wisconsin 53713-4648 Fax: (608) 274-7511

Please complete both Forms 4400-113A and 4400-113B and return to the appropriate DNR office and bureau. Completion of these reports is required by chs. 160, 281, 283, 289, 291, 292, 293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291, 292, 293, 295, and 299, Wis. Stats., failure to file these forms may result in a forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on these forms is not intended to be used for any other purpose. NOTE: See the instructions for more information, including where the completed forms should be sent.

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: **X** Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-1
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 774 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Number & Type	Length Alt. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						RQD / Comments	
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200		
G-1-1 (3.5 feet)	48 48		3	Grass											
				0-1' Brown silty sand and gravel (FILL)	FILL										
G-1-2 (8 feet)	48 36		6	1-4' Brown to tan silt/clay	ML/CL			1905		M					Petro odor
				4-8' Tan silt/clay	ML/CL										Petro odor
G-1-3 (12 feet)	48 36		9	8-16' Tan silt/clay with trace gravel	ML/CL			>5000		M					Petro odor
				16-18' Tan silt/clay with gravel	ML/CL					43.5		M			Slight petro odor
G-1-4 (12-16 feet)	48 48		15	16-18' Tan silt/clay with gravel	ML/CL			21.5		M					No petro odor
G-1-5 (16 feet)	48 48		18	18-19' Weathered dolomitic sandstone/dolomite				12.3		W					No petro odor
			21	Refusal at 19 feet bgs. Temp well set with 5 foot screen from 14-19 feet. Groundwater sample G-1-W collected. Borehole abandoned.											
			24												
			27												

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To: Watershed / Wastewater: Waste Management:
Remediation / Redevelopment: Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-2
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 780.5 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110		County Ozaukee	County Code 46	Civil Town / City / Village Fredonia

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-2-1 (3.5 feet)	48 24		3	Asphalt 0-1' Asphalt 1-2' Tan sand and gravel (FILL)	FILL									
			6	2-4' Tan very fine to medium grained sand with trace gravel	SP			17.5		M				No petro odor
G-2-2 (7 feet)	48 12		9	4-8' Tan fine to coarse grained silty/clayey sand with gravel	SM/SC			22.2		M				No petro odor
			12	8-12' Tan silt/clay with trace gravel	ML/CL									
G-2-3 (13 feet)	48 48		15	12-16' No Recovery				12.5		M/W				No petro odor
G-2-4 (12-16 feet)	48 0		18	16-20' Tannish gray weathered dolomitic sandstone/dolomite				10.8		W				No petro odor
G-2-5 (16 feet)	48 36		21	Refusal at 20 feet bgs. Groundwater sample G-2-W was collected. Borehole abandoned.										

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 284, 285, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-3
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 778 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
				Grass										
				0-2' Tan to brown sand and gravel (FILL)	FILL									
G-3-1 (3.5 feet)	48 24		3	2-4' Brown silt/clay to sandy silt/clay with trace gravel	ML/CL			21.3		M				No petro odor
			6	4-8' Tan silt/clay	ML/CL									
G-3-2 (8 feet)	48 18		9					11.4		M				No petro odor
			12											
G-3-3 (12 feet)	48 48		12	8-18' Tan silt/clay with trace gravel	ML/CL			9.8		M				No petro odor
			15											
G-3-4 (16 feet)	48 24		15					9.5		W				No petro odor
			18											
G-3-5 (18 feet)	48 24		18	18-20' Tan to gray weathered dolomitic sandstone/dolomite				9.8		W				No petro odor
			21	EOB at 20 feet bgs. Groundwater sample G-3-W was collected. Borehole abandoned.										
			24											
			27											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: _____

Firm: **METCO**

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-4
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 781 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location Lat 43° 28' 17.5 N Long 87° 59' 30.5 W Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Sample				Soil Properties										
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-4-1 (3.5 feet)	48 24		3	Asphalt 0-2' Brown sand and gravel (FILL)	FILL									
			6	2-4' Tan to reddish tan silt/clay	ML/CL			12.0		M				No petro odor
			9	4-8' Tan silt/clay with trace gravel	ML/CL									
G-4-2 (8 feet)	48 24		9	8-9' Tan sandy (fine to medium grained) silt/clay	ML/CL			20.2		M				No petro odor
G-4-3 (9 feet)	48 48		12	9-12' Tan silt/clay with trace gravel	ML/CL			9.7		M/W				No petro odor
G-4-4 (14 feet)	48 48		15	12-18' Tan silt/clay with trace gravel	ML/CL			14.9		W				No petro odor
G-4-5 (18 feet)	48 40		18	18-19' Gray weathered dolomite				14.0		W				No petro odor
			21	Refusal at 19 feet bgs. Groundwater sample G-4-W was collected. Borehole abandoned.										
			24											
			27											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

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Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: **X** Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-5
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level Dry	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110		County Ozaukee	County Code 46	Civil Town / City / Village Fredonia

Number & Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties					P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index		
G-5-1 (3.5 feet)	48 30		0-1'	Gravel 0-1' Brown sand and gravel (FILL)	FILL									
			1-3'	1-3' Brown sandy (very fine to medium grained) silt/clay with gravel	ML/CL			8.3		M				No petro odor
G-5-2 (8 feet)	48 24		3-14'	Tan silt/clay with gravel	ML/CL			10.6		M				No petro odor
G-5-3 (12 feet)	48 30		12'	14' Dolomitic sandstone				7.0		M				No petro odor
G-5-4 (14 feet)	48 24		15'					Refusal at 14 feet bgs. Groundwater sample G-5-W not taken as well was dry. Borehole abandoned.				10.7		M

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-6
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 777 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location Lat 43° 28' 17.5 N Long 87° 59' 30.5 W N E Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Number & Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	Soil Properties						P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
G-6-1 (3.5 feet)	48 24		3	Grass 0-1' Brown sand and gravel (FILL)	FILL			26.7		M				No petro odor	
				2-4' Brown to tan silty/clayey very fine to fine grained sand	SM/SC										
G-6-2 (8 feet)	48 48		6	4-8' Tan silt/clay	ML/CL			15.4		M				No petro odor	
			9	8-12' Tan silt/clay with gravel	ML/CL										
G-6-3 (12 feet) G-6-4 (13 feet)	48 36 48 48		12					28.2 22.1		M - M/W				No petro odor No petro odor	
			15	12-16' Tan to light brown silt/clay	ML/CL										
			18	EOB at 16 feet bgs. Groundwater sample G-6-W was collected. Borehole abandoned.											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To: _____ Watershed / Wastewater: _____ Waste Management: _____
Remediation / Redevelopment: Other: _____

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number G-7
Boring Drilled By: Name of crew chief (first, last) and Firm First: Darrin Last: Prentice Firm: Geiss Soil & Samples, LLC		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 778 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Sample				Soil Properties										
Number & Type	Length Alt. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
G-7-1 (3.5 feet)	48 24	3	0-1.5' Grass	0-1.5' Brown sand and gravel (FILL)	FILL									
			1.5-5' Brown sandy (fine to medium grained) silt/clay	ML/CL			18.4		M					No petro odor
G-7-2 (8 feet)	48 24	6	5-6' Fine to medium grained sand		SP									
			6-8' Tan sandy (fine to medium grained) silt/clay with gravel	ML/CL			15.1		M					No petro odor
G-7-3 (12 feet)	48 36	9	8-12' Tan silt/clay with gravel		ML/CL									
			12-14' Tan silt/clay with gravel	ML/CL			21.3		M					No petro odor
G-7-4 (14 feet)	48 24	15	Refusal at 14 feet bgs. Groundwater sample G-7-W was not taken as well was dry. Borehole abandoned.					18.0		W				No petro odor

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:
Remediation / Redevelopment: **X**

Waste Management:
Other:

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number HA-1
Boring Drilled By: Name of crew chief (first, last) and Firm First: Matthew Last: Michalski Firm: METCO		Drilling Date Started 10/02/2017 MM / DD / YYYY	Drilling Date Completed 10/02/2017 MM / DD / YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 759.5 feet MSL	Surface Elevation 760 feet MSL
			Borehole Diameter 2 inches	
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE 1/4 of SW 1/4 of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110		County Ozaukee	County Code 46	Civil Town / City / Village Fredonia

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties						P 200	RQD / Comments	
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index				
HA-1-1 (6 inches)			1	Rip Rap and Soil											No petro odor	
			0-1'	Brown silty/clayey, fine to coarse grained sand with gravel and cobbles	SM/SC		8.7		W							
			2	EOB at 1 feet bgs. Groundwater sample HA-1-W collected. Borehole filled with native material.												
			3													
			4													
			5													
			6													
			7													
			8													
			9													

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:
Remediation / Redevelopment:

Waste Management:
Other:

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number HA-2
Boring Drilled By: Name of crew chief (first, last) and Firm First: Matthew Last: Michalski Firm: METCO		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 789.166 feet MSL	Surface Elevation 760 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E		Local Grid Location Lat 43° 28' 17.5 N Long 87° 59' 30.5 W		Feet S Feet W
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Soil Properties					RQD / Comments
									Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	
HA-2-1			0-6"	Rip Rap 0-6" Rip Rap	FILL									
			1	EOB at 6" feet bgs. Groundwater sample HA-2-W collected. Borehole filled with native material.										
			2											
			3											
			4											
			5											
			6											
			7											
			8											
			9											

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature: Firm: **METCO**

This form is authorized by Chapters 281, 283, 289, 291, 292, 293, 295 and 299, Wis. Stats. Completion of this form is mandatory. Failure to file this form may result in forfeiture of between \$10 and \$25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. NOTE: See instructions for more information, including where the completed form should be sent.

Route To:

Watershed / Wastewater:
Remediation / Redevelopment:

Waste Management:
Other:

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number HA-3
Boring Drilled By: Name of crew chief (first, last) and Firm First: Matthew Last: Michalski Firm: METCO		Drilling Date Started 10/02/2017 MM/DD/YYYY	Drilling Date Completed 10/02/2017 MM/DD/YYYY	Drilling Method Geoprobe
WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level 798.083 feet MSL	Surface Elevation 760 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E			Local Grid Location N E Feet S Feet W	
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Sample				Soil Properties											
Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments	
HA-3-1			0	Rip Rap 0-6" Rip Rap <hr/> EOB at 6 inches bgs. Groundwater sample HA-3-W collected. Borehole filled with native material.	FILL	▼									
			1												
			2												
			3												
			4												
			5												
			6												
			7												
			8												
			9												

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Route To:

Watershed / Wastewater:
Remediation / Redevelopment:

Waste Management:
Other:

Facility / Project Name Waubeka Mill, Inc.		License / Permit / Monitoring Number		Boring Number MW-1
Boring Drilled By: Name of crew chief (first, last) and Firm First: Bob Last: Rector Firm: SES		Drilling Date Started 03/16/2018 MM/DD/YYYY	Drilling Date Completed 03/16/2018 MM/DD/YYYY	Drilling Method H.S.A
WI Unique Well No. WA132	DNR Well ID No. MW-1	Well Name MW-1	Final Static Water Level 774 feet MSL	Surface Elevation 790 feet MSL
Local Grid Origin (estimated X) or Boring Location State Plane N, E SE ¼ of SW ¼ of Section 28, T 12 N, R 21 E		Local Grid Location Lat 43° 28' 17.5 N Long 87° 59' 30.5 W		Feet S Feet W
Facility ID 246147110	County Ozaukee	County Code 46	Civil Town / City / Village Fredonia	

Number & Type	Length Att. & Recovered (ft)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	USCS	Graphic Log	Well Diagram	Soil Properties						P 200	RQD / Comments
								PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index			
MW-1-1 (3.5 feet)	24 12		3	0-4' Gray clayey sand	SC			732		M					Petro odor
MW-1-2 (7 feet)	24 12		6	4-8' Gray sandy clay with gravel	CL			522		M					Petro odor
			9	8-12' Tan sandy clay	CL										
MW-1-3 (12 feet)	24 12		12	12-16' Tan sandy clay with gravel	CL			19.4		M					Slight petro odor
MW-1-4 (16 feet)	24 18		15					10.7		W					Slight petro odor
MW-1-5 (20 feet)	24 12		18	16-21' Gray sandy clay with gravel and cobbles	CL			4.8		W					Slight petro odor
			21	EOB at 21 feet bgs. Monitoring well MW-1 was installed 20.5 feet with a 15 foot screen.											
			24												
			27												

I hereby certify that the information on this form is true and correct to the best of my knowledge

Signature:

Firm: **METCO**

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information **2. Facility / Owner Information**

County OZAUKEE		WI Unique Well # of Removed Well		Hicap #		Facility Name Waubeka Mill, Inc.	
Latitude / Longitude (Degrees and Minutes) 43 ° 28.28 ' N		Method Code (see instructions)		Facility ID (FID or PWS) 246147110		License/Permit/Monitoring #	
87 ° 59.519 ' W				Original Well Owner Jacquelyn Voeks		Present Well Owner Jacquelyn Voeks	
1/4 SE	1/4 SW	Section 28	Township 12 N	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Mailing Address of Present Owner 680 Emerald Pt, Building 5, Co	
Well Street Address W4132 Mill Street		Well City, Village or Town Town of Fredonia		Well ZIP Code 53021-		City of Present Owner Hollister	
Subdivision Name		Lot #		State MO		ZIP Code 65672-	

Reason For Removal From Service: **Sampling Complete**

WI Unique Well # of Replacement Well: _____

3. Well / Drillhole / Borehole Information

Monitoring Well Water Well Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): **10/2/2017**

If a Well Construction Report is available, please attach.

Construction Type:

Drilled Driven (Sandpoint) Dug

Other (specify): **Geoprobe**

4. Pump, Liner, Screen, Casing & Sealing Material

Pump and piping removed? Yes No N/A

Liner(s) removed? Yes No N/A

Screen removed? Yes No N/A

Casing left in place? Yes No N/A

Was casing cut off below surface? Yes No N/A

Did sealing material rise to surface? Yes No N/A

Did material settle after 24 hours? Yes No N/A

If yes, was hole retopped? Yes No N/A

If bentonite chips were used, were they hydrated with water from a known safe source? Yes No N/A

Formation Type:

Unconsolidated Formation Bedrock

Total Well Depth From Ground Surface (ft.): **19**

Casing Diameter (in.): _____

Lower Drillhole Diameter (in.): _____

Casing Depth (ft.): _____

Was well annular space grouted? Yes No Unknown

If yes, to what depth (feet)? _____

Depth to Water (feet): **16**

Required Method of Placing Sealing Material

Conductor Pipe-Gravity Conductor Pipe-Pumped

Screened & Poured (Bentonite Chips) Other (Explain): **Gravity**

Sealing Materials

Neat Cement Grout Clay-Sand Slurry (11 lb./gal. wt.)

Sand-Cement (Concrete) Grout Bentonite-Sand Slurry " "

Concrete Bentonite Chips

For Monitoring Wells and Monitoring Well Boreholes Only:

Bentonite Chips Bentonite - Cement Grout

Granular Bentonite Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds
Medium Bentonite Chips	Surface	19	28.5

6. Comments

Geoprobe Boring G-1
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work			DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matthew Michalski (METCO)	License #	Date of Filling & Sealing (mm/dd/yyyy) 10/2/2017	Date Received	Noted By
Street or Route 709 Gillette Street, Suite 3	City La Crosse	State WI	ZIP Code 54603-	Telephone Number (608) 781-8879
Signature of Person Doing Work <i>Benjamin Voeks</i>			Date Signed 10/12/17	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County	WI Unique Well # of Removed Well	Licap #		Facility Name			
OZAUKEE				Waubeka Mill, Inc.			
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		Facility ID (FID or PWS)			
43 ° 28.28 ' N				246147110			
87 ° 59.519 ' W				License/Permit/Monitoring #			
Original Well Owner				Present Well Owner			
Jacquelyn Voeks				Jacquelyn Voeks			
Well Street Address				Mailing Address of Present Owner			
W4132 Mill Street				680 Emerald Pt, Building 5, Co			
Well City, Village or Town				City of Present Owner		State	ZIP Code
Town of Fredonia				Hollister		MO	65672-
Subdivision Name				Lot #			

3. Well / Drillhole / Borehole Information		4. Pump, Liner, Screen, Casing & Sealing Material			
Reason For Removal From Service	WI Unique Well # of Replacement Well	Pump and piping removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Sampling Complete		Liner(s) removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Original Construction Date (mm/dd/yyyy)		Screen removed?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
10/2/2017		Casing left in place?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
If a Well Construction Report is available, please attach.		Was casing cut off below surface?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
Construction Type:		Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Monitoring Well	<input type="checkbox"/> Drilled	Did material settle after 24 hours?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A
<input type="checkbox"/> Water Well	<input type="checkbox"/> Driven (Sandpoint)	If yes, was hole retopped?	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A
<input checked="" type="checkbox"/> Borehole / Drillhole	<input type="checkbox"/> Dug	If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A
<input checked="" type="checkbox"/> Other (specify): Geoprobe		Required Method of Placing Sealing Material			
Formation Type:		<input type="checkbox"/> Conductor Pipe-Gravity			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Conductor Pipe-Pumped			
<input type="checkbox"/> Bedrock		<input type="checkbox"/> Screened & Poured (Bentonite Chips)			
Total Well Depth From Ground Surface (ft.)		<input checked="" type="checkbox"/> Other (Explain): Gravity			
20		Sealing Materials			
Casing Diameter (in.)		<input type="checkbox"/> Neat Cement Grout			
Lower Drillhole Diameter (in.)		<input type="checkbox"/> Sand-Cement (Concrete) Grout			
Casing Depth (ft.)		<input type="checkbox"/> Concrete			
Was well annular space grouted?		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		<input type="checkbox"/> Bentonite-Sand Slurry " "			
If yes, to what depth (feet)?		<input type="checkbox"/> Bentonite Chips			
Depth to Water (feet)		<input type="checkbox"/> Granular Bentonite			
9.5		<input type="checkbox"/> Bentonite - Cement Grout			
		<input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole		
From (ft.)	To (ft.)	Pounds
Surface	20	30
Medium Bentonite Chips		

6. Comments
Geoprobe Boring G-2
Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
Matthew Michalski (METCO)		10/2/2017			
Street or Route	Telephone Number	Comments			
709 Gillette Street, Suite 3	(608) 781-8879				
City	State	ZIP Code	Signature of Person Doing Work	Date Signed	
La Crosse	WI	54603-	<i>[Signature]</i>	10/12/17	

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County OZAUKEE		WI Unique Well # of Removed Well	Hicap #	Facility Name Waubeka Mill, Inc.		Facility ID (FID or PWS) 246147110	
Latitude / Longitude (Degrees and Minutes) 43 ° 28.28 ' N 87 ° 59.519 ' W		Method Code (see instructions)		License/Permit/Monitoring #		Original Well Owner Jacquelyn Voeks	
1/4 SE	1/4 SW	Section 28	Township 12 N	Range 21	<input checked="" type="checkbox"/> E <input type="checkbox"/> W	Present Well Owner Jacquelyn Voeks	
Well Street Address W4132 Mill Street				Mailing Address of Present Owner 680 Emerald Pt, Building 5, Co			
Well City, Village or Town Town of Fredonia				Well ZIP Code 53021-		City of Present Owner Hollister	
Subdivision Name				Lot #		State MO	
Reason For Removal From Service Sampling Complete				WI Unique Well # of Replacement Well		ZIP Code 65672-	

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/2/2017		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		If a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole				Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Construction Type:				Casing left in place?			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Was casing cut off below surface?	
<input checked="" type="checkbox"/> Other (specify): Geoprobe				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Did sealing material rise to surface?	
Formation Type:				Did material settle after 24 hours?			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		If yes, was hole retopped?	
Total Well Depth From Ground Surface (ft.) 20		Casing Diameter (in.)		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		If bentonite chips were used, were they hydrated with water from a known safe source?	
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A			
Was well annular space grouted?				Required Method of Placing Sealing Material			
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) 12		<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)?				<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): Gravity	

5. Material Used To Fill Well / Drillhole			
	From (ft.)	To (ft.)	Pounds
Medium Bentonite Chips	Surface	20	30
6. Comments			
Geoprobe Boring G-3 Abandoned by Geiss SOIL & Samples, LLC under METCO supervision			

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matthew Michalski (METCO)		License #	Date of Filling & Sealing (mm/dd/yyyy) 10/2/2017	Date Received	Noted By
Street or Route 709 Gillette Street, Suite 3			Telephone Number (608) 781-8879	Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work <i>[Signature]</i>		Date Signed 10/12/17

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Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County OZAUKEE	WI Unique Well # of Removed Well _____	Hicap # _____		Facility Name Waubeka Mill, Inc.			
Latitude / Longitude (Degrees and Minutes) 43 ° 28.28 ' N		Method Code (see instructions) _____		Facility ID (FID or PWS) 246147110			
87 ° 59.519 ' W		_____		License/Permit/Monitoring # _____			
1/4 SE	1/4 SW	Section 28	Township 12 N	Range 21	<input checked="" type="checkbox"/> E	Original Well Owner Jacquelyn Voeks	
or Gov't Lot #		_____		<input type="checkbox"/> W		Present Well Owner Jacquelyn Voeks	
Well Street Address W4132 Mill Street				Mailing Address of Present Owner 680 Emerald Pt, Building 5, Co			
Well City, Village or Town Town of Fredonia				Well ZIP Code 53021-			
Subdivision Name _____				Lot # _____		City of Present Owner Hollister	
State MO		ZIP Code 65672-		_____			

Reason For Removal From Service Sampling Complete	WI Unique Well # of Replacement Well _____
3. Well / Drillhole / Borehole Information	
<input type="checkbox"/> Monitoring Well	Original Construction Date (mm/dd/yyyy) 10/2/2017
<input type="checkbox"/> Water Well	If a Well Construction Report is available, please attach. _____
<input checked="" type="checkbox"/> Borehole / Drillhole	
Construction Type: <input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug <input checked="" type="checkbox"/> Other (specify): Geoprobe	

4. Pump, Liner, Screen, Casing & Sealing Material	
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A

Formation Type: <input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock	Required Method of Placing Sealing Material <input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped <input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity
Total Well Depth From Ground Surface (ft.) 19	Casing Diameter (in.) _____
Lower Drillhole Diameter (in.) _____	Casing Depth (ft.) _____
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown	
If yes, to what depth (feet)? _____	Depth to Water (feet) 9

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds
Medium Bentonite Chips	Surface	19	28.5

6. Comments
**Geoprobe Boring G-4
Abandoned by Geiss Soil & Samples, LLC under METCO supervision**

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matthew Michalski (METCO)	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/2/2017	Date Received _____	Noted By _____	
Street or Route 709 Gillette Street, Suite 3		Telephone Number (608) 781-8879	Comments _____		
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work <i>[Signature]</i>	Date Signed 10/12/17	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County OZAUKEE	WI Unique Well # of Removed Well _____	Hicap # _____		Facility Name Waubeka Mill, Inc.			
Latitude / Longitude (Degrees and Minutes) 43 ° 28.28 ' N		Method Code (see instructions) _____		Facility ID (FID or PWS) 246147110			
87 ° 59.519 ' W		_____		License/Permit/Monitoring # _____			
$\frac{1}{4}$ SE	$\frac{1}{4}$ SW	Section 28	Township 12 N	Range 21	<input checked="" type="checkbox"/> E	Original Well Owner Jacquelyn Voeks	
or Gov't Lot #		_____		<input type="checkbox"/> W		Present Well Owner Jacquelyn Voeks	
Well Street Address W4132 Mill Street				Mailing Address of Present Owner 680 Emerald Pt, Building 5, Co			
Well City, Village or Town Town of Fredonia				Well ZIP Code 53021-		City of Present Owner Hollister	
Subdivision Name				Lot #		State MO	ZIP Code 65672-

Reason For Removal From Service Sampling Complete	WI Unique Well # of Replacement Well _____	4. Pump, Liner, Screen, Casing & Sealing Material					
3. Well / Drillhole / Borehole Information		Original Construction Date (mm/dd/yyyy) 10/2/2017		Pump and piping removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A			
<input type="checkbox"/> Monitoring Well	If a Well Construction Report is available, please attach.		Liner(s) removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Screen removed? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
<input type="checkbox"/> Water Well	_____		Casing left in place? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		Was casing cut off below surface? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
<input checked="" type="checkbox"/> Borehole / Drillhole	_____		Did sealing material rise to surface? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		Did material settle after 24 hours? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A		
Construction Type:		<input type="checkbox"/> Drilled <input type="checkbox"/> Driven (Sandpoint) <input type="checkbox"/> Dug		If yes, was hole retopped? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		If bentonite chips were used, were they hydrated with water from a known safe source? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): Geoprobe		_____		Required Method of Placing Sealing Material			
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation <input type="checkbox"/> Bedrock		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped			
Total Well Depth From Ground Surface (ft.) 14		Casing Diameter (in.)		<input type="checkbox"/> Screened & Poured (Bentonite Chips) <input checked="" type="checkbox"/> Other (Explain): Gravity			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)		Sealing Materials			
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		_____		<input type="checkbox"/> Neat Cement Grout <input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)			
If yes, to what depth (feet)?		Depth to Water (feet)		<input type="checkbox"/> Sand-Cement (Concrete) Grout <input type="checkbox"/> Bentonite-Sand Slurry " "			
_____		_____		<input type="checkbox"/> Concrete <input type="checkbox"/> Bentonite Chips			
_____		_____		For Monitoring Wells and Monitoring Well Boreholes Only:			
_____		_____		<input checked="" type="checkbox"/> Bentonite Chips <input type="checkbox"/> Bentonite - Cement Grout			
_____		_____		<input type="checkbox"/> Granular Bentonite <input type="checkbox"/> Bentonite - Sand Slurry			

5. Material Used To Fill Well / Drillhole	From (ft.)	To (ft.)	Pounds
Medium Bentonite Chips	Surface	14	21

6. Comments

Geoprobe Boring G-5
Abandoned by Geiss SOIL & Samples, LLC under METCO supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matthew Michalski (METCO)	License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/2/2017	Date Received _____	Noted By _____	
Street or Route 709 Gillette Street, Suite 3		Telephone Number (608) 781-8879	Comments _____		
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work <i>George Tenjan</i>	Date Signed 10/12/17	

Well / Drillhole / Borehole Filling & Sealing

Form 3300-005 (R 4/08)

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:

Drinking Water Watershed/Wastewater Remediation/Redevelopment

Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County	WI Unique Well # of Removed Well	Hicap #		Facility Name			
OZAUKEE				Waubeka Mill, Inc.			
Latitude / Longitude (Degrees and Minutes)		Method Code (see instructions)		Facility ID (FID or PWS)			
43 ° 28.28 ' N				246147110			
87 ° 59.519 ' W				License/Permit/Monitoring #			
				Original Well Owner			
				Jacquelyn Voeks			
				Present Well Owner			
				Jacquelyn Voeks			
Well Street Address				Mailing Address of Present Owner			
W4132 Mill Street				680 Emerald Pt, Building 5, Co			
Well City, Village or Town				City of Present Owner			
Town of Fredonia				Hollister		State	
Subdivision Name				MO		ZIP Code	
						65672-	

Reason For Removal From Service		WI Unique Well # of Replacement Well	
Sampling Complete			

3. Well / Drillhole / Borehole Information			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy)	
<input type="checkbox"/> Water Well		10/2/2017	
<input checked="" type="checkbox"/> Borehole / Drillhole		If a Well Construction Report is available, please attach.	
Construction Type:			
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)	
<input checked="" type="checkbox"/> Other (specify): Geoprobe		<input type="checkbox"/> Dug	
Formation Type:			
<input checked="" type="checkbox"/> Unconsolidated Formation		<input type="checkbox"/> Bedrock	
Total Well Depth From Ground Surface (ft.)		Casing Diameter (in.)	
16			
Lower Drillhole Diameter (in.)		Casing Depth (ft.)	
Was well annular space grouted? <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown			
If yes, to what depth (feet)?		Depth to Water (feet)	
		13	

4. Pump, Liner, Screen, Casing & Sealing Material			
Pump and piping removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Liner(s) removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Screen removed?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Casing left in place?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Was casing cut off below surface?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Did sealing material rise to surface?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Did material settle after 24 hours?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> N/A	
If yes, was hole retopped?	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
If bentonite chips were used, were they hydrated with water from a known safe source?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> N/A	
Required Method of Placing Sealing Material			
<input type="checkbox"/> Conductor Pipe-Gravity		<input type="checkbox"/> Conductor Pipe-Pumped	
<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): Gravity	
Sealing Materials			
<input type="checkbox"/> Neat Cement Grout		<input type="checkbox"/> Clay-Sand Slurry (11 lb./gal. wt.)	
<input type="checkbox"/> Sand-Cement (Concrete) Grout		<input type="checkbox"/> Bentonite-Sand Slurry " "	
<input type="checkbox"/> Concrete		<input type="checkbox"/> Bentonite Chips	
For Monitoring Wells and Monitoring Well Boreholes Only:			
<input checked="" type="checkbox"/> Bentonite Chips		<input type="checkbox"/> Bentonite - Cement Grout	
<input type="checkbox"/> Granular Bentonite		<input type="checkbox"/> Bentonite - Sand Slurry	

5. Material Used To Fill Well / Drillhole			
	From (ft.)	To (ft.)	Pounds
Medium Bentonite Chips	Surface	16	24

6. Comments

Geoprobe Boring G-6
Abandoned by Geiss SOil & Samples, LLC under METCO supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)	Date Received	Noted By	
Matthew Michalski (METCO)		10/2/2017			
Street or Route	Telephone Number		Comments		
709 Gillette Street, Suite 3	(608) 781-8879				
City	State	ZIP Code	Signature of Person Doing Work		Date Signed
La Crosse	WI	54603-	<i>[Signature]</i>		10/12/17

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299, Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identifiable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

Verification Only of Fill and Seal

Route to:
 Drinking Water Watershed/Wastewater Remediation/Redevelopment
 Waste Management Other: _____

1. Well Location Information				2. Facility / Owner Information			
County OZAUKEE		WI Unique Well # of Removed Well _____		Facility Name Waubeka Mill, Inc.		Facility ID (FID or PWS) 246147110	
Latitude / Longitude (Degrees and Minutes) 43 ° 28.28 ' N		Method Code (see instructions) _____		License/Permit/Monitoring # _____		Original Well Owner Jacquelyn Voeks	
87 ° 59.519 ' W		Section 28		Township 12 N		Present Well Owner Jacquelyn Voeks	
1/4 SE or Gov't Lot #		Range 21		City of Present Owner Hollister		State MO	
Well Street Address W4132 Mill Street		Well ZIP Code 53021-		City of Present Owner Hollister		ZIP Code 65672-	
Well City, Village or Town Town of Fredonia		Lot # _____		Mailing Address of Present Owner 680 Emerald Pt, Building 5, Co		City of Present Owner Hollister	
Subdivision Name _____		Reason For Removal From Service Sampling Complete		WI Unique Well # of Replacement Well _____		City of Present Owner Hollister	

3. Well / Drillhole / Borehole Information				4. Pump, Liner, Screen, Casing & Sealing Material			
<input type="checkbox"/> Monitoring Well		Original Construction Date (mm/dd/yyyy) 10/2/2017		Pump and piping removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Water Well		if a Well Construction Report is available, please attach.		Liner(s) removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Borehole / Drillhole		Construction Type:		Screen removed?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input type="checkbox"/> Drilled		<input type="checkbox"/> Driven (Sandpoint)		Casing left in place?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
<input checked="" type="checkbox"/> Other (specify): Geoprobe		<input type="checkbox"/> Dug		Was casing cut off below surface?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Formation Type:		<input checked="" type="checkbox"/> Unconsolidated Formation		Did sealing material rise to surface?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Bedrock		Total Well Depth From Ground Surface (ft.) 14		Did material settle after 24 hours?		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Casing Diameter (in.) 14		Casing Depth (ft.) 12		If yes, was hole retopped?		<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Lower Drillhole Diameter (in.)		Was well annular space grouted?		If bentonite chips were used, were they hydrated with water from a known safe source?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Unknown		Depth to Water (feet) 12		Required Method of Placing Sealing Material		<input type="checkbox"/> Conductor Pipe-Gravity <input type="checkbox"/> Conductor Pipe-Pumped	
If yes, to what depth (feet)?		Required Method of Placing Sealing Material		<input type="checkbox"/> Screened & Poured (Bentonite Chips)		<input checked="" type="checkbox"/> Other (Explain): Gravity	

5. Material Used To Fill Well / Drillhole			
From (ft.)	To (ft.)	Pounds	
Surface	14	21	Medium Bentonite Chips

6. Comments
 Geoprobe Boring G-7
 Abandoned by Geiss Soil & Samples, LLC under METCO supervision

7. Supervision of Work				DNR Use Only	
Name of Person or Firm Doing Filling & Sealing Matthew Michalski (METCO)		License # _____	Date of Filling & Sealing (mm/dd/yyyy) 10/2/2017	Date Received	Noted By
Street or Route 709 Gillette Street, Suite 3		Telephone Number (608) 781-8879		Comments	
City La Crosse	State WI	ZIP Code 54603-	Signature of Person Doing Work <i>Matthew Michalski</i>	Date Signed 10/12/17	

Site Investigation Report - METCO
Waubeka Mill Inc.

APPENDIX D/ WASTE DISPOSAL DOCUMENTATION

8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

*Cliff
Portage
Fredonia
Milwaukee #2
Mauro
MARSAN*

002369
DKS TRANSPORT LLC
DKS/18049BIO@
2520 WILSON ST
MENOMONIE, WI 54751

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		759009	SFALTER	
TRUCK		CONTAINER	LICENSE	
DKS74				
REFERENCE			IN	OUT
109180			5/15/18 11:36 am	5/15/18 11:36 am

CONTRACT: PETROLEUM/18049BIO@		GROSS 43,060.00LBS Scale In					
BOL:		TARE 29,400.00LBS Tare Out					
		NET 13,660.00LBS					
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
6.83	TN	34A@/EX C-Soil/Pet-Ldd Gs-ADC	WI	100.00			
1.00	EA	Profile Fee EX	WI	100.00			

Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

7 MILE CREEK LANDFILL, LLC
8001 OLSON DRIVE
EAU CLAIRE, WI 54703
7158300284

*Moquah
Dairyland
Milton*

002369
DKS TRANSPORT LLC
DKS/18049BIO@
2520 WILSON ST
MENOMONIE, WI 54751

INVOICE
INBOUND

SITE	CELL	TICKET #	OPERATOR	
G3		759132	42997	
TRUCK		CONTAINER	LICENSE	
DKS74				
REFERENCE			IN	OUT
109181			5/16/18 8:02 am	5/16/18 8:05 am

CONTRACT: PETROLEUM/18049BIO@		GROSS 41,940.00LBS Scale In					
BOL:		TARE 29,400.00LBS Tare Out					
		NET 12,540.00LBS					
QTY	UNIT	DESCRIPTION	ORIGIN	%	RATE	TAX	TOTAL
6.27	TN	34A@/EX C-Soil/Pet-Ldd Gs-ADC	WI	100.00			

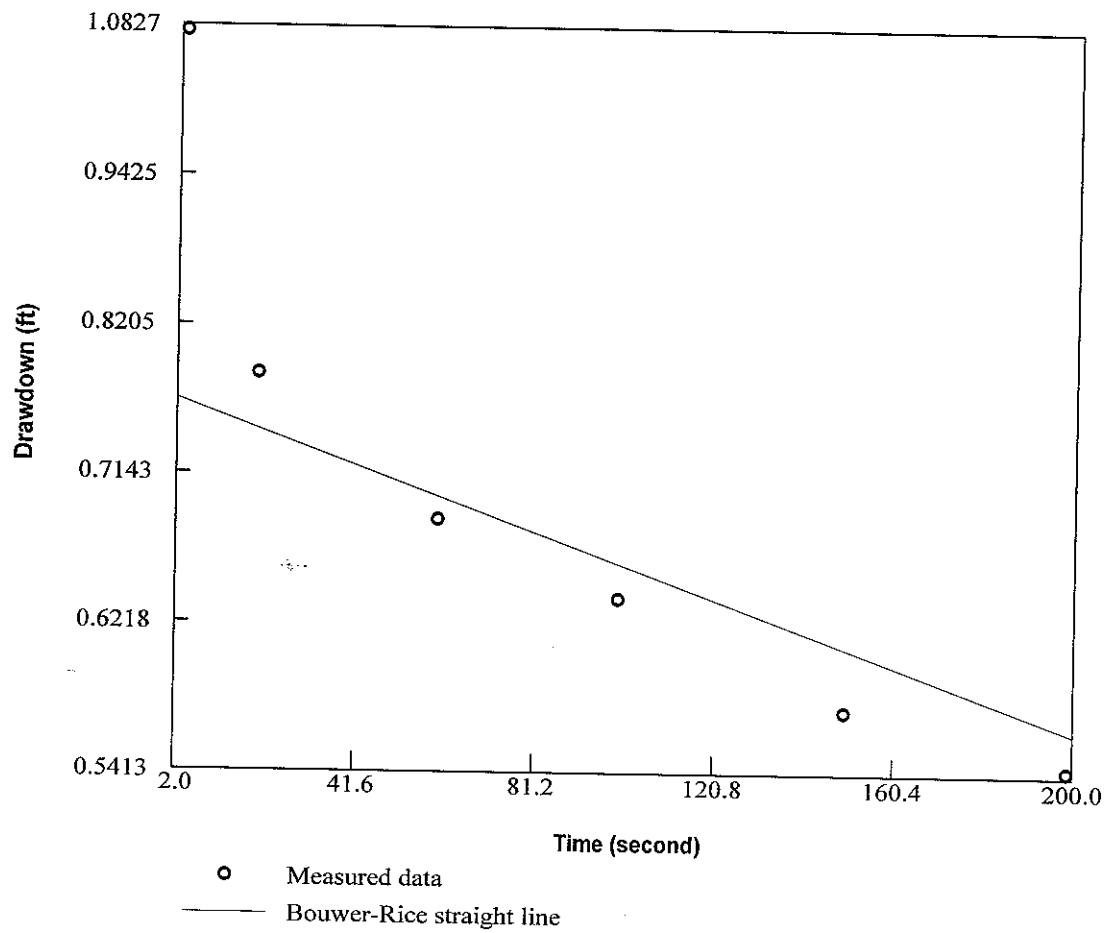
Total
Paid
Change
Check#
Recpt #

I hereby certify that this load does not contain any unauthorized hazardous waste.

SIGNATURE: _____

CUSTOMER COPY

**Site Investigation Report - METCO
Waubeka Mill Inc.
APPENDIX E/ OTHER DOCUMENTATION**



Aquifer Parameters by the Bouwer and Rice Slug Test

Hydraulic Conductivity (ft/s):	1.41e-006
Transmissivity (sq ft/s):	1.54e-005

Waubeka Mill MW-1

Data file for DataLogger.

=====

COMPANY : <Company name>

COMP.STATUS: Do

DATE : 07/05/2018

TIME : 15:58:07

FILENAME : C:\Documents and Settings\Administrator\Application Data\DiverOffice\Waubeka Mill\CS

CREATED BY : Diver-Office 9.1.0.0

===== BEGINNING OF DATA =====

[Logger settings]

Instrument type =Micro-Diver=15

Status =Started =0

Serial number =..00-R2271 215.

Instrument number = UTC-4

=0

Location =mw-1d

Sample period =S02

Sample method =T

Number of channels =2

[Channel 1]

Identification =PRESSURE

Reference level =13.12336 ft

Range =90.22310 ft

Master level =0 m

Altitude =0 ft

[Channel 2]

Identification =TEMPERATURE

Reference level =-4.000 °F

Range =180.000 °F

[Series settings]

Serial number =..00-R2271 215.

Instrument number = UTC-4

Location =mw-1d

Sample period =00 00:00:02 0

Sample method =T

Start date / time =37:53:15 07/05/18

End date / time =55:57:15 07/05/18

[Channel 1 from data header]

Identification =PRESSURE

Reference level =13.12336 ft

Range =90.22310 ft

Master level =0 m

Altitude =0 ft

[Channel 2 from data header]

Identification =TEMPERATURE

Reference level =-4.000 °F

Range =180.000 °F

Date/time	Pressure[ft	Temperatu	Time (Adju	Drawdown
15:53:37	43.54659	44.366		0
15:53:39	43.54659	44.366		0
15:53:41	43.54659	44.366		0
15:53:43	43.54659	44.366		0
15:53:45	43.53757	44.366		0.00902
15:53:47	43.53757	44.366		0.00902
15:53:49	43.53757	44.366		0.00902
15:53:51	43.53757	44.366		0.00902
15:53:53	43.53757	44.366		0.00902
15:53:55	43.53757	44.366		0.00902
15:53:57	43.53155	44.366		0.01504
15:53:59	42.93608	44.354		0.61051
15:54:01	42.46391	44.354	2	1.08268
15:54:03	42.51504	44.354	4	1.03155
15:54:05	42.6203	44.354	6	0.92629
15:54:07	42.66541	44.354	8	0.88118
15:54:09	42.69849	44.336	10	0.8481
15:54:11	42.72556	44.336	12	0.82103
15:54:13	42.73458	44.336	14	0.81201
15:54:15	42.7436	44.336	16	0.80299
15:54:17	42.75262	44.336	18	0.79397
15:54:19	42.76165	44.336	20	0.78494
15:54:21	42.76766	44.336	22	0.77893
15:54:23	42.77668	44.336	24	0.76991
15:54:25	42.78571	44.336	26	0.76088
15:54:27	42.78571	44.336	28	0.76088
15:54:29	42.79473	44.336	30	0.75186
15:54:31	42.79172	44.324	32	0.75487
15:54:33	42.80074	44.324	34	0.74585
15:54:35	42.80074	44.324	36	0.74585
15:54:37	42.80977	44.324	38	0.73682
15:54:39	42.81879	44.324	40	0.7278
15:54:41	42.81879	44.324	42	0.7278
15:54:43	42.81879	44.324	44	0.7278
15:54:45	42.82781	44.324	46	0.71878
15:54:47	42.82781	44.324	48	0.71878
15:54:49	42.82781	44.324	50	0.71878
15:54:51	42.83683	44.324	52	0.70976
15:54:53	42.84586	44.324	54	0.70073
15:54:55	42.84586	44.324	56	0.70073
15:54:57	42.85187	44.324	58	0.69472
15:54:59	42.86089	44.324	60	0.6857

15:55:01	42.86089	44.324	62	0.6857
15:55:03	42.86089	44.324	64	0.6857
15:55:05	42.86089	44.324	66	0.6857
15:55:07	42.86991	44.324	68	0.67668
15:55:09	42.86991	44.324	70	0.67668
15:55:11	42.86991	44.324	72	0.67668
15:55:13	42.87292	44.336	74	0.67367
15:55:15	42.88194	44.336	76	0.66465
15:55:17	42.88194	44.336	78	0.66465
15:55:19	42.89097	44.336	80	0.65562
15:55:21	42.88194	44.354	82	0.66465
15:55:23	42.88194	44.354	84	0.66465
15:55:25	42.89097	44.354	86	0.65562
15:55:27	42.89097	44.354	88	0.65562
15:55:29	42.89097	44.354	90	0.65562
15:55:31	42.89999	44.354	92	0.6466
15:55:33	42.89999	44.354	94	0.6466
15:55:35	42.89999	44.354	96	0.6466
15:55:37	42.90901	44.354	98	0.63758
15:55:39	42.90901	44.354	100	0.63758
15:55:41	42.90901	44.354	102	0.63758
15:55:43	42.90901	44.354	104	0.63758
15:55:45	42.91803	44.354	106	0.62856
15:55:47	42.91803	44.354	108	0.62856
15:55:49	42.91803	44.354	110	0.62856
15:55:51	42.91803	44.354	112	0.62856
15:55:53	42.91803	44.354	114	0.62856
15:55:55	42.92706	44.354	116	0.61953
15:55:57	42.93608	44.354	118	0.61051
15:55:59	42.92706	44.354	120	0.61953
15:56:01	42.93608	44.354	122	0.61051
15:56:03	42.93608	44.354	124	0.61051
15:56:05	42.93608	44.354	126	0.61051
15:56:07	42.93909	44.366	128	0.6075
15:56:09	42.93909	44.366	130	0.6075
15:56:11	42.93909	44.366	132	0.6075
15:56:13	42.9451	44.366	134	0.60149
15:56:15	42.95412	44.366	136	0.59247
15:56:17	42.9451	44.366	138	0.60149
15:56:19	42.95412	44.366	140	0.59247
15:56:21	42.95412	44.366	142	0.59247
15:56:23	42.96315	44.366	144	0.58344
15:56:25	42.96315	44.366	146	0.58344
15:56:27	42.96315	44.366	148	0.58344
15:56:29	42.97217	44.366	150	0.57442
15:56:31	42.96315	44.366	152	0.58344
15:56:33	42.96315	44.366	154	0.58344

15:56:35	42.97217	44.366	156	0.57442
15:56:37	42.97217	44.366	158	0.57442
15:56:39	42.97217	44.366	160	0.57442
15:56:41	42.97217	44.366	162	0.57442
15:56:43	42.97217	44.366	164	0.57442
15:56:45	42.97217	44.366	166	0.57442
15:56:47	42.98119	44.366	168	0.5654
15:56:49	42.98119	44.366	170	0.5654
15:56:51	42.99021	44.366	172	0.55638
15:56:53	42.99021	44.366	174	0.55638
15:56:55	42.99021	44.366	176	0.55638
15:56:57	42.98119	44.366	178	0.5654
15:56:59	42.99623	44.378	180	0.55036
15:57:01	42.99623	44.378	182	0.55036
15:57:03	42.99623	44.378	184	0.55036
15:57:05	42.99623	44.378	186	0.55036
15:57:07	43.00525	44.378	188	0.54134
15:57:09	43.00525	44.378	190	0.54134
15:57:11	42.99623	44.39	192	0.55036
15:57:13	43.00525	44.39	194	0.54134
15:57:15	43.00525	44.39	196	0.54134
15:57:17	43.00525	44.39	198	0.54134
15:57:19	43.00525	44.39	200	0.54134
15:57:21	43.00525	44.39	202	0.54134
15:57:23	43.01427	44.39	204	0.53232
15:57:25	43.01427	44.402	206	0.53232
15:57:27	43.01427	44.402	208	0.53232
15:57:29	43.01427	44.402	210	0.53232
15:57:31	43.01427	44.402	212	0.53232
15:57:33	43.02329	44.402	214	0.5233
15:57:35	43.01427	44.414	216	0.53232
15:57:37	43.01427	44.414	218	0.53232
15:57:39	43.01427	44.414	220	0.53232
15:57:41	43.01427	44.414	222	0.53232
15:57:43	43.01728	44.426	224	0.52931
15:57:45	43.01728	44.426	226	0.52931
15:57:47	43.0263	44.426	228	0.52029
15:57:49	43.0263	44.426	230	0.52029
15:57:51	43.0263	44.426	232	0.52029
15:57:53	43.0263	44.426	234	0.52029
15:57:55	43.0263	44.426	236	0.52029

END OF DATA FILE OF DATALOGGER FOR WINDOWS

RCL Quick Reference Table

March 2017

Contaminant	Not To Exceed D-C RCL (mg/kg)	Not To Exceed D-C RCL (mg/kg)	RCL-gw (mg/kg) DF=2
	Non-Industrial	Industrial	
Benzene	,16	,97	,00051
Ethylbenzene	,8.02	,35.4	,1.57
Toluene	,818.	,818.	,1.1072
Xylenes	,260.	,260.	,3.96
Methyl tert-Butyl Ether (MTBE)	,63.8	,282.	,0.027
Dichloroethane, 1,2- (DCA)	,0.652	,2.87	,0.0028
Dibromoethane, 1,2-	,0.05	,0.221	2.82E-05
Trichloroethene (TCE)			,0.03
Tetrachloroethylene (PCE)			,0.05
1,1,1-Trichloroethene			,0.001
Dichloroethene, 1,2- (DCE)			,0.001
Dichloroethylene, 1,2-trans-	1,560.	1,850.	,0.0626
Dichloroethylene, 1,2-cis-	,156.	2,340.	,0.0412
Trichloroethane, 1,1,1-	,640.	,640.	,0.1402
Carbon Tetrachloride	,0.916	,4.03	,0.0039
Pentachlorophenol (PCP)	,1.02	,3.97	,0.0028
Trimethylbenzene, 1,2,4-	,219.	,219.	
Trimethylbenzene, 1,3,5-	,182.	,182.	,1.382
Naphthalene			,0.02
Benz[a]pyrene	,0.115	,2.11	,0.47
Acenaphthene	3,590.	45,200.	
Anthracene	17,900.	100,000.	,196.9492
Benz[a]anthracene	,1.14	,20.8	

Contaminant	Not To Exceed D-C RCL (mg/kg)	Not To Exceed D-C RCL (mg/kg)	RCL-gw (mg/kg) DF=2	Background Threshold Value (BTV) (mg/kg)
	Non-Industrial	Industrial		
Benzo(j)fluoranthene	,0.424	,1.76		
Benzo(b)fluoranthene	,1.15	,21.1	,0.4793	
Benzo(k)fluoranthene	,11.5	,211.		
Chrysene	,115.	2,110.	,0.1446	
Dibenz[a,h]anthracene	,0.115	,2.11		
Dibenzo(a,e)pyrene	,0.042	,0.176		
Dimethylbenz(a)anthracene, 7,12-	4.59E-04	,0.008		
Fluoranthene	2,390.	30,100.	,88.8778	
Fluorene	2,390.	30,100.	,14.8299	
Indeno[1,2,3-cd]pyrene	,1.15	,21.1		
Methylnaphthalene, 1-	,17.6	,72.7		
Methylnaphthalene, 2-	,239.	3,010.		
Nitropyrene, 4-	,0.424	,1.76		
Pyrene	1,790.	22,600.	,54.5455	
Arsenic Inorganics				
Barium	15,300.	100,000.	,164.8	364
Beryllium and compounds	,156.	2,300.	,6.32	
Cadmium (Diet)	,71.1	,985.	,0.752	1
Chromium(VI)	,0.301	,6.36	,3.84	
Chromium, Total			360,000 if no Cr-VI	44
Lead and Compounds				
Mercury (elemental)	,3.13	,3.13	,0.208	
Selenium	,391.	5,840.	,0.52	

NOTES:

- 1) This table of the most common compounds is intended to be a quick reference ONLY. It does not take into account cumulative effects as required in NR 700.
- 2) Values in this table are taken from the RCL spreadsheet which is periodically updated. PLEASE be sure to reference the RCL spreadsheet for the most current values.

Site-specific

Resident Screening Levels (RSL) for Soil

ca=Cancer, nc=Noncancer, ca* (Where nc SL < 100 x ca SL)

ca** (Where nc SL < 10 x ca SL), max=SL exceeds ceiling limit (see User's Guide), sat=SL exceeds csat,

Smax=Soil SL exceeds ceiling limit and has been substituted with the max value (see User's Guide),

Ssat=Soil inhalation SL exceeds csat and has been substituted with the csat

Chemical	GIABS	ABS	RBA	Volatilization	Soil	Particulate	Ingestion	Dermal	Inhalation	Carcinogenic
				Factor (m ³ /kg)	Saturation Concentration (mg/kg)	Emission Factor (m ³ /kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)	SL TR=1.0E-6 (mg/kg)
Benzene	1	-	1	5.10E+03	1.82E+03	1.56E+09	1.26E+01	-	1.84E+00	1.60E+00
Dibromoethane, 1,2-	1	-	1	1.25E+04	1.34E+03	1.56E+09	3.48E-01	-	5.84E-02	5.00E-02
Dichloroethane, 1,2-	1	-	1	6.60E+03	2.98E+03	1.56E+09	7.64E+00	-	7.13E-01	6.52E-01
Ethylbenzene	1	-	1	8.18E+03	4.80E+02	1.56E+09	6.32E+01	-	9.19E+00	8.02E+00
Lead and Compounds	1	-	1	-	-	1.56E+09	-	-	-	-
Methyl tert-Butyl Ether (MTBE)	1	-	1	7.08E+03	8.87E+03	1.56E+09	3.86E+02	-	7.64E+01	6.38E+01
Acenaphthene	1	0.13	1	2.03E+05	-	1.56E+09	-	-	-	-
Anthracene	1	0.13	1	7.56E+05	-	1.56E+09	-	-	-	-
Benz[a]anthracene	1	0.13	1	6.37E+06	-	1.56E+09	2.10E-01	6.29E-01	5.85E+01	1.57E-01
Benzo(j)fluoranthene	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Benzo[a]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.44E+03	1.57E-02
Benzo[b]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Benzo[k]fluoranthene	1	0.13	1	-	-	1.56E+09	2.10E+00	6.29E+00	1.44E+04	1.57E+00
Chrysene	1	0.13	1	-	-	1.56E+09	2.10E+01	6.29E+01	1.44E+05	1.57E+01
Dibenz[a,h]anthracene	1	0.13	1	-	-	1.56E+09	2.10E-02	6.29E-02	1.32E+03	1.57E-02
Dibenzo(a,e)pyrene	1	0.13	1	-	-	1.56E+09	5.79E-02	1.58E-01	3.98E+03	4.24E-02
Dimethylbenz(a)anthracene, 7,12-	1	0.13	1	-	-	1.56E+09	6.13E-04	1.84E-03	2.23E+01	4.59E-04
Fluoranthene	1	0.13	1	-	-	1.56E+09	-	-	-	-
Fluorene	1	0.13	1	4.06E+05	-	1.56E+09	-	-	-	-
Indeno[1,2,3-cd]pyrene	1	0.13	1	-	-	1.56E+09	2.10E-01	6.29E-01	1.44E+04	1.57E-01
Methylnaphthalene, 1-	1	0.13	1	8.46E+04	3.94E+02	1.56E+09	2.40E+01	6.55E+01	-	1.76E+01
Methylnaphthalene, 2-	1	0.13	1	8.37E+04	-	1.56E+09	-	-	-	-
Naphthalene	1	0.13	1	6.69E+04	-	1.56E+09	-	-	5.52E+00	5.52E+00
Nitropyrene, 4-	1	0.13	1	-	-	1.56E+09	5.79E-01	1.58E+00	3.98E+04	4.24E-01
Pyrene	1	0.13	1	3.43E+06	-	1.56E+09	-	-	-	-
Toluene	1	-	1	6.19E+03	8.18E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,2,4-	1	-	1	1.14E+04	2.19E+02	1.56E+09	-	-	-	-
Trimethylbenzene, 1,3,5-	1	-	1	9.54E+03	1.82E+02	1.56E+09	-	-	-	-
Xylenes	1	-	1	8.28E+03	2.60E+02	1.56E+09	-	-	-	-

(22) "Wastewater and sludge storage or treatment lagoon" means a natural or man-made containment structure, constructed primarily of earthen materials for the treatment or storage of wastewater or sludge, which is not a land disposal system.

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; cr. (1m), am. (7), (17) and (18), Register, October, 1988, No. 394, eff. 11-1-88; am. (6), cr. (20h) and (20m), Register, March, 1994, No. 459, eff. 4-1-94; cr. (1s), (10e), (10s), (20k), r. and recr. (12), (13), Register, August, 1995, No. 476, eff. 9-1-95; cr. (14m), Register, October, 1996, No. 490, eff. 11-1-96; am. (20), Register, December, 1998, No. 516, eff. 1-1-99; correction in (9) made under s. 13.93 (2m) (b) 7., Stats., Register, April, 2001, No. 544; CR 02-134: cr. (1u), (1w), (1y) and (20s) Register June 2003 No. 570, eff. 7-1-03; correction in (20) made under s. 13.92 (4)(b) 6., Stats., Register January 2012 No. 673.

Subchapter II — Groundwater Quality Standards

NR 140.10 Public health related groundwater standards. The groundwater quality standards for substances of public health concern are listed in Table I.

Note: For all substances that have carcinogenic, mutagenic or teratogenic properties or interactive effects, the preventive action limit is 10% of the enforcement standard. The preventive action limit is 20% of the enforcement standard for all other substances that are of public health concern. Enforcement standards and preventive action limits for additional substances will be added to Table I as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table I
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Acetochlor	7	0.7
Acetochlor ethane sulfonic acid + oxanilic acid (Acetochlor – ESA + OXA)	230	46
Acetone	9 mg/l	1.8 mg/l
Alachlor	2	0.2
Alachlor ethane sulfonic acid (Alachlor – ESA)	20	4
Aldicarb	10	2
Aluminum	200	40
Ammonia (as N)	9.7 mg/l	0.97 mg/l
Antimony	6	1.2
Anthracene	3000	600
Arsenic	10	1
Asbestos	7 million fibers per liter (MFL)	0.7 MFL
Atrazine, total chlorinated residues	3 ²	0.3 ²
Bacteria, Total Coliform	0 ³	0 ³
Barium	2 milligrams/liter (mg/l)	0.4 mg/l
Bentazon	300	60
Benzene	5	0.5
Benzo(b)fluoranthene	0.2	0.02
Benzo(a)pyrene	0.2	0.02
Beryllium	4	0.4
Boron	1000	200
Bromodichloromethane	0.6	0.06
Bromoform	4.4	0.44
Bromomethane	10	1
Butylate	400	80
Cadmium	5	0.5
Carbaryl	40	4
Carbofuran	40	8
Carbon disulfide	1000	200
Carbon tetrachloride	5	0.5
Chloramben	150	30
Chlordane	2	0.2
Chlorodifluoromethane	7 mg/l	0.7 mg/l
Chloroethane	400	80
Chloroform	6	0.6
Chlorpyrifos	2	0.4
Chloromethane	30	3
Chromium (total)	100	10
Chrysene	0.2	0.02

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Cobalt	40	8
Copper	1300	130
Cyanazine	1	0.1
Cyanide, free ⁴	200	40
Dacthal	70	14
1,2-Dibromoethane (EDB)	0.05	0.005
Dibromochloromethane	60	6
1,2-Dibromo-3-chloropropane (DBCP)	0.2	0.02
Dibutyl phthalate	1000	100
Dicamba	300	60
1,2-Dichlorobenzene	600	60
1,3-Dichlorobenzene	600	120
1,4-Dichlorobenzene	75	15
Dichlorodifluoromethane	1000	200
1,1-Dichloroethane	850	85
1,2-Dichloroethane	5	0.5
1,1-Dichloroethylene	7	0.7
1,2-Dichloroethylene (cis)	70	7
1,2-Dichloroethylene (trans)	100	20
2,4-Dichlorophenoxyacetic Acid (2,4-D)	70	7
1,2-Dichloropropane	5	0.5
1,3-Dichloropropene (cis/trans)	0.4	0.04
Di (2-ethylhexyl) phthalate	6	0.6
Dimethenamid/Dimethenamid-P	50	5
Dimethoate	2	0.4
2,4-Dinitrotoluene	0.05	0.005
2,6-Dinitrotoluene	0.05	0.005
Dinitrotoluene, Total Residues ⁵	0.05	0.005
Dinoseb	7	1.4
1,4-Dioxane	3	0.3
Dioxin (2, 3, 7, 8-TCDD)	0.00003	0.000003
Endrin	2	0.4
EPTC	250	50
Ethylbenzene	700	140
Ethyl ether	1000	100
Ethylene glycol	14 mg/l	2.8 mg/l
Fluoranthene	400	80
Fluorene	400	80
Fluoride	4 mg/l	0.8 mg/l
Fluorotrichloromethane	3490	698
Formaldehyde	1000	100
Heptachlor	0.4	0.04
Heptachlor epoxide	0.2	0.02
Hexachlorobenzene	1	0.1
N-Hexane	600	120
Hydrogen sulfide	30	6
Lead	15	1.5
Lindane	0.2	0.02
Manganese	300	60
Mercury	2	0.2

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Methanol	5000	1000
Methoxychlor	40	4
Methylene chloride	5	0.5
Methyl ethyl ketone (MEK)	4 mg/l	0.8 mg/l
Methyl isobutyl ketone (MIBK)	500	50
Methyl tert-butyl ether (MTBE)	60	12
Metolachlor/s--Metolachlor	100	10
Metolachlor ethane sulfonic acid + oxanilic acid (Metolachlor – ESA + OXA)	1.3 mg/l	0.26 mg/l
Metribuzin	70	14
Molybdenum	40	8
Monochlorobenzene	100	20
Naphthalene	100	10
Nickel	100	20
Nitrate (as N)	10 mg/l	2 mg/l
Nitrate + Nitrite (as N)	10 mg/l	2 mg/l
Nitrite (as N)	1 mg/l	0.2 mg/l
N--Nitrosodiphenylamine	7	0.7
Pentachlorophenol (PCP)	1	0.1
Perchlorate	1	0.1
Phenol	2 mg/l	0.4 mg/l
Picloram	500	100
Polychlorinated biphenyls (PCBs)	0.03	0.003
Prometon	100	20
Propazine	10	2
Pyrene	250	50
Pyridine	10	2
Selenium	50	10
Silver	50	10
Simazine	4	0.4
Styrene	100	10
Tertiary Butyl Alcohol (TBA)	12	1.2
1,1,1,2-Tetrachloroethane	70	7
1,1,1,2-Tetrachloroethane	0.2	0.02
Tetrachloroethylene	5	0.5
Tetrahydrofuran	50	10
Thallium	2	0.4
Toluene	800	160
Toxaphene	3	0.3
1,2,4-Trichlorobenzene	70	14
1,1,1-Trichloroethane	200	40
1,1,2-Trichloroethane	5	0.5
Trichloroethylene (TCE)	5	0.5
2,4,5-Trichlorophenoxy-propionic acid (2,4,5-TP)	50	5
1,2,3-Trichloropropane	60	12
Trifluralin	7.5	0.75
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	480	96
Vanadium	30	6

Table 1 – Continued
Public Health Groundwater Quality Standards

Substance ¹	Enforcement Standard (micrograms per liter – except as noted)	Preventive Action Limit (micrograms per liter – except as noted)
Vinyl chloride	0.2	0.02
Xylene ⁶	2 mg/l	0.4 mg/l

¹ Appendix 1 contains Chemical Abstract Service (CAS) registry numbers, common synonyms and trade names for most substances listed in Table 1.

² Total chlorinated atrazine residues includes parent compound and the following metabolites of health concern: 2-chloro-4-amino-6-isopropylamino-s-triazine (formerly deethylatrazine), 2-chloro-4-amino-6-ethylamino-s-triazine (formerly deisopropylatrazine) and 2-chloro-4,6-diamino-s-triazine (formerly diamino-atrazine).

³ Total coliform bacteria may not be present in any 100 ml sample using either the membrane filter (MF) technique, the presence-absence (P-A) coliform test, the minimal medium ONPG-MUG (MMO-MUG) test or not present in any 10 ml portion of the 10-tube multiple tube fermentation (MTF) technique.

⁴ "Cyanide, free" refers to the simple cyanides (HCN, CN⁻) and/or readily dissociable metal-cyanide complexes. Free cyanide is regulatorily equivalent to cyanide quantified by approved analytical methods for "amenable cyanide" or "available cyanide".

⁵ Dinitrotoluene. Total Residues includes the dinitrotoluene (DNT) isomers: 2,3-DNT, 2,4-DNT, 2,5-DNT, 2,6-DNT, 3,4-DNT and 3,5-DNT.

⁶ Xylene includes meta-, ortho-, and para-xylene combined.

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 1, Register, October, 1988, No. 394, eff. 11-1-88; am. table 1, Register, September, 1990, No. 417, eff. 10-1-90; am. Register, January, 1992, No. 433, eff. 2-1-92; am. Table 1, Register, March, 1994, No. 459, eff. 4-1-94; am. Table 1, Register, August, 1995, No. 476, eff. 9-1-95; am. Table 1, Register, December, 1998, No. 516, eff. 1-1-99; am. Table 1, boron, Register, December, 1998, No. 516, eff. 12-31-99; am. Table 1, Register, March, 2000, No. 531, eff. 4-1-00; CR 03-063: am Table 1, Register February 2004 No. 578, eff. 3-1-04; CR 02-095: am. Table 1, Register November 2006 No. 611, eff. 12-1-06; reprinted to correct errors in Table 1, Register January 2007 No. 613; CR 07-034: am. Table 1 Register January 2008 No. 625, eff. 2-1-08; CR 09-102: am. Table 1 Register December 2010 No. 660, eff. 1-1-11.

NR 140.12 Public welfare related groundwater standards. The groundwater quality standards for substances of public welfare concern are listed in Table 2.

Note: For each substance of public welfare concern, the preventive action limit is 50% of the established enforcement standard.

Table 2
Public Welfare Groundwater Quality Standards

Substance	Enforcement Standard (milligrams per liter – except as noted)	Preventive Action Limit (milligrams per liter – except as noted)
Chloride	250	125
Color	15 color units	7.5 color units
Foaming agents MBAS (Methylene-Blue Active Substances)	0.5	0.25
Iron	0.3	0.15
Manganese	0.05	0.025
Odor	3 (Threshold Odor No.)	1.5 (Threshold Odor No.)
Sulfate	250	125
Zinc	5	2.5

History: Cr. Register, September, 1985, No. 357, eff. 10-1-85; am. table 2, Register, October, 1990, No. 418, eff. 11-1-90; am. Table 2, Register, March, 1994, No. 459, eff. 4-1-94.

NR 140.14 Statistical procedures. (1) If a preventive action limit or an enforcement standard for a substance listed in Table 1 or 2, an alternative concentration limit issued in accordance with s. NR 140.28 or a preventive action limit for an indicator parameter established according to s. NR 140.20 (2) is attained or exceeded at a point of standards application:

(a) The owner or operator of the facility, practice or activity at which a standard is attained or exceeded shall notify the appropriate regulatory agency that a standard has been attained or exceeded; and

(b) The regulatory agency shall require a response in accordance with the rules promulgated under s. 160.21, Stats. No response shall be required if it is demonstrated to the satisfaction of the appropriate regulatory agency that a scientifically valid determination cannot be made that the preventive action limit or enforcement standard for a substance in Table 1 or 2 has been attained or exceeded based on consideration of sampling procedures or laboratory precision and accuracy, at a significance level of 0.05.

(2) The regulatory agency shall use one or more valid statistical procedures to determine if a change in the concentration of a substance has occurred. A significance level of 0.05 shall be used for all tests.

(3) In addition to sub. (2), the following applies when a preventive action limit or enforcement standard is equal to or less than the limit of quantitation:

(a) If a substance is not detected in a sample, the regulatory agency may not consider the preventive action limit or enforcement standard to have been attained or exceeded.

(b) If the preventive action limit or enforcement standard is less than the limit of detection, and the concentration of a substance is reported between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or enforcement standard to be attained or exceeded only if:

1. The substance has been analytically confirmed to be present in the same sample using an equivalently sensitive analytical method or the same analytical method, and

2. The substance has been statistically confirmed to be present above the preventive action limit or enforcement standard, determined by an appropriate statistical test with sufficient samples at a significance level of 0.05.

(c) If the preventive action limit or enforcement standard is between the limit of detection and the limit of quantitation, the regulatory agency shall consider the preventive action limit or

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APPENDIX F/ QUALIFICATIONS OF METCO PERSONNEL

**Site Investigation Report - METCO
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Ronald J. Anderson, P.G.

Professional Titles

- Senior Hydrogeologist
- Project Manager

Credentials

- Licensed Professional Geologist in Wisconsin
- Licensed Professional Geologist in Minnesota
- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist
- Certified by State of Wisconsin to conduct PECFA-funded LUST projects
- Certified tank closure site assessor (#41861) in Wisconsin
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the Federation of Environmental Technologist, Inc.

Education

Includes a BA in Earth Science from the University of Minnesota-Duluth. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Geological Field Methods, Geology Field Camp, Geomorphology, Structural Geology, Stratigraphy/Tectonics, Mineralogy/Petrology, Glacial/Quaternary Geology, Geology of North America, Oceanography, General Chemistry, Organic Chemistry, and Environmental Conservation.

Post-Graduate Education

Includes Personnel Protection and Safety, Conducting Comprehensive Environmental Property Assessments, Groundwater Flow and Well Hydraulics, Effective Techniques for Contaminated Groundwater Treatment, and numerous other continuing education classes and conferences.

Work Experience

Includes nine months with the Wisconsin Department of Natural Resources Leaking Underground Storage Tank Program regulating LUST sites and since June 1990, with METCO as a Hydrogeologist and Project Manager. Duties have included: managing, conducting, and reporting tank closure assessments; property assessment, LUST investigations; spill investigations; agricultural chemical investigations, dry cleaning chemical investigations, general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater, soil gas sampling); drilling projects (soil boring and monitoring wells); and remedial projects. Since 1989, METCO has sampled/consulted over 1,465 environmental sites.

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Jason T. Powell

Professional Title

- Staff Scientist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Scientist.

Education

Includes a BS in Groundwater Management from the University of Wisconsin- Stevens Point. Applicable courses successfully completed include Hydrogeology, Applied Hydrogeology, Environmental Geology, Hydrogeology-Groundwater Flow Modeling, Groundwater Management, Structural Geology, Mineralogy, Glacial Geology, Soils, Soil Physics, Hydrology, Geochemistry, Water Chemistry, Organic Chemistry, General Chemistry, Environmental Issues.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since May 1992 as a Geoprobe Assistant and Geoprobe Operator. In June 1995 to July 1996 as a Environmental Technician. In July 1996 as a Staff Scientist. Duties have included: LUST investigations; general geotechnical/environmental investigations; Geoprobe projects (soil, groundwater sampling); drilling projects (soil boring and monitoring wells); remedial projects (sampling, pilot tests, system operation/maintenance) and project management.

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Eric J. Dahl

Professional Title

- Hydrogeologist

Credentials

- Recognized by the State of Wisconsin Department of Natural Resources (Chapter NR712) as a qualified Hydrogeologist.
- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#823519).

Education

Includes B.S. in Geology from the University of Wisconsin-Eau Claire. Applicable courses successfully completed include Environmental Geology, Physical Hydrogeology, Chemical Hydrogeology, Computer Modeling in Hydrogeology, Aqueous Geochemistry, Field Geology I and II, Mineralogy and Petrology I and II, Sedimentology and Stratigraphy, Petroleum and Economic Geology, Earth Resources, Earth History, and Structural Geology.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course with 8-hour refresher course.

Work Experience

With METCO since November 1999 as a Hydrogeologist. Duties have included: Site Investigations, Phase I and Phase II Environmental Site Assessments, Case Closure Requests/GIS Registry, Geoprobe projects (oversight, direction, and sampling), drilling projects/monitoring well installation (oversight, direction, and sampling), soil excavation projects (oversight, direction, and sampling), Geoprobe operation, and operation and maintenance of remedial systems.

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Thomas P. Pignet, P.E.

Professional Titles

- Chemical Engineer
- Industrial Engineer

Credentials

- Licensed Professional Engineer in Wisconsin

Education

Undergraduate: B.S. in Chemical Engineering from the University of Wisconsin. Applicable courses include the standard chemistry curriculum - basic, physical, organic, etc. - plus engineering transport phenomena, chemical unit operations (e.g. separations), fluid mechanics, etc.

Post-Graduate Education

Ph.D. in Chemical Engineering from the University of Minnesota - with applicable special training in absorption & catalysis; M.S. in Industrial Engineering from the University of Wisconsin - Milwaukee - with special emphasis on statistical techniques and data analysis. Applicable further training: continuing education, semester-length courses in [1] Understanding Environmental & Safety Regulation; [2] Hazardous & Toxic Waste Management; plus a number of 1-2 day workshops - Fire & Explosion Safety; Small Quantity Generations of Hazardous Waste.

Work Experience

Includes ten years as a research chemical engineer with a large chemical manufacturer; one year as process development engineer and demonstration-scale test analyst on a unique coal gasification project; ten years in association with UW-M, teaching and consulting to industry on energy efficiency, waste minimization and productivity improvement. One year working with a small engineering consulting firm on energy, environmental, and process improvement projects, including LUST Investigations and Remediations. With METCO since February 2000. Duties include Remedial Action Plan preparation, pilot test design and performance, remedial systems design and implementation, and general management of METCO's remedial projects.

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Tyler Woodke

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#396413).

Education

Includes B.S. in Geography with an Environmental Studies minor from the University of Wisconsin-La Crosse. Applicable courses successfully completed include: Introduction to Biology, Introduction to Environmental Studies, Earth Environments, Conservation of Global Environments, Introduction to GIS, History of Environmental Policies in the U.S., Interpretation of Aerial Photographs, Fundamentals of Cartography, Environmental Hazards/Land Use, Remote Sensing, Water Resources, Environmental Sustainability, and Environmental Ethics, Outdoor Recreation and Natural Resources.

Work Experience

With METCO since February, 2018 as Staff Scientist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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Kaylin D. Felix

Professional Title

- Hydrogeologist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1564301).

Education

Includes B.S. in Geology (Hydrogeology) from the University of Wisconsin- Oshkosh. Applicable courses successfully completed include Physical Hydrogeology, Chemical Hydrogeology, Applied Geologic Field Methods, Field Geology, Mineralogy, Sedimentology, Lithology, Evolution of Earth, Physical Geology, Structural Geology and Tectonics, Glacial Geology, Geophysics and Geotectonics, Geochemistry, Water Resource Management and Geographic Informational Systems.

Work Experience

With METCO since April, 2018 as Hydrogeologist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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Maxwell Wannow

Professional Title

- Hydrogeologist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#55909).

Education

Includes B.S. in Geology (Professional Geology) from the University of Wisconsin- Oshkosh. Applicable courses successfully completed include Geochemistry, Geophysics, Sedimentology, Field Geology, Stratigraphy and Basin Analysis, Sedimentary Petrology, Structural Geology, Mineralogy, Lithology, Paleontology, Evolution of Earth, and Physical Geology.

Work Experience

With METCO since June, 2018 as Hydrogeologist. Duties include: soil and groundwater sampling, operation and maintenance of remedial systems, Geoprobe projects (oversight, direction, and sampling), site mapping, data reduction and analysis, and reporting.

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APPENDIX G/ STANDARD OF CARE**

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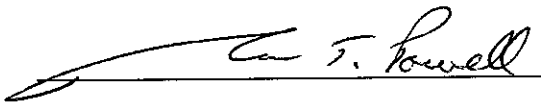
STANDARD OF CARE

The analysis and conclusions expressed in this report are based upon data obtained from the indicated subsurface locations and from other sources discussed in this report. Actual subsurface conditions may vary and may not become evident without further assessment.

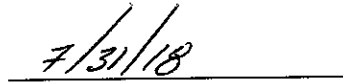
All work conducted by METCO is in accordance with currently accepted hydrogeologic and engineering practices and they neither imply nor intend warranty.

We appreciate the opportunity to be of service to you. If you have any questions or require additional information, please do not hesitate to contact us.

"I Jason T. Powell, hereby certify that I am a scientist as that term is defined in s.NR 712.03 (3), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code.

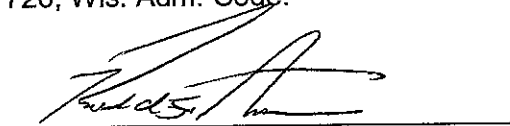


Jason T. Powell
Staff Scientist

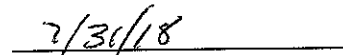


Date

"I Ronald J. Anderson, hereby certify that I am a hydrogeologist as that term is defined in s.NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Ronald J. Anderson PG
Senior Hydrogeologist/Project Manager



Date