Site Investigation Report

Maron Property
W9468 Iron Road
Beaver Dam, Wisconsin

July 29, 2016
by METCO
WDNR File Reference #: 03-14-563925
PECFA Claim #: 53916-9214-68-A

METCO

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This document was prepared by:

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July 29, 2016

WDNR BRRTS#: 03-14-563925
PECFA Claim #: 53916-9214-68-A

Karen Maron
7420 Drummond Street
Iron River, WI 54847

Dear Ms. Maron,

Enclosed is our "Site Investigation Report" concerning the Maron Property site in Beaver Dam, 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 in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

Due to the soil contamination in the area of Geoprobe boring G-1, soil boring MW-1, and hand auger boring HA-1 exceeding the NR720 Non-Industrial Direct Contact RCL's and that only two rounds of groundwater samplings have been conducted, WDNR will likely require the following: 1) A soil excavation project to eliminate the direct contact risk and also reduce the contaminant mass in the source area. 2) Drilling project to replace monitoring well MW-1 and install an additional down-gradient well to the northwest of the removed UST. 3) Post excavation groundwater monitoring to determine contamination trends and plume stability. 4) Vapor assessment of the on-site building following the soil excavation project. Per WDNR response to this report, METCO will proceed with the 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: Patrick Dowd – WDNR

EXECUTIVE SUMMARY

In February 2015, Partner Engineering and Science, Inc. performed a Phase 1 Environmental Site Assessment (P1ESA) at the Maron Property. According to historical sources, the property was used for residential purposes as early as 1940. In 1956, the existing building was constructed and the property was developed as a salvage yard. The salvage yard operated at the subject property until approximately 1975. A pallet manufacturing business operated on the subject property from approximately 1975 until 2010. Currently the subject property is under land contract to Mark's Family Trucking, LLC.

Recognized environmental conditions identified during the P1ESA include the following:

1) A 1,000-gallon diesel UST registered for the site address in the Wisconsin state tank database. The diesel UST system was used by the pallet manufacturing business for fueling vehicles. The UST was removed as of January 1, 1991.
2) Former use of the property as a salvage yard.
3) A former floor drain in the warehouse that led to the on site septic system.
4) A closed spill case for the subject property, Beaver Dam City Compost Site (BRRTS case # 04-14-235314). The spill incident is listed as a release of <200 gallons of water soluble ink, which occurred on September 1, 1999. The spill case was closed on October 21, 1999 with no cleanup required.

On May 7, 2015, METCO conducted a Phase 2 Environmental Site Assessment (P2ESA) at the subject property. During the P2ESA, eight soil borings (GP-1, -2, -3, -4, -5, -6, -7, and -8) were were advanced to a depth of 8 to 10 feet below ground surface (bgs) to assess the following areas: the former UST, salvage yard, and septic system. One soil sample and one groundwater sample were collected from each boring for VOC analysis. The only area where any significant levels of VOCs were detected in soil and groundwater was in the area of the removed diesel UST (GP-1). The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be completed.

In 2015, METCO was hired to conduct the investigation, which included the completion of six soil borings, one hand auger boring, installation of four monitoring wells, and two rounds of groundwater monitoring.

The Phase 2 Environmental Site Assesment, Drilling Project, and two rounds of groundwater monitoring clearly show that released petroleum products have impacted the local soil and groundwater. Results of the investigation are as follows:

- Geologic material in the area of investigation generally consists of sandy silt/clay with gravel from ground surface to 10.5 to 13 feet bgs. Except in the area of MW-2, where a fine to medium grained silty sand was encountered from ground surface to 7 feet bgs

and a hard till with cobbles and boulders was encountered from 7 to 13 feet bgs. In the areas of MW-3 and MW-4 a fine to medium grained sand w/gravel was encountered at depths ranging from 3 to 4 feet bgs and extending to the bedrock surface (10.5 to 11 feet bgs). In the area of B-2 a fine to medium grained silty sand was encountered at 10 to 10.5 feet bgs.

- Dolomite was encountered during the site investigation at depths ranging from 10.5 to 13 feet bgs.

- According to data collected from the monitoring wells, the depth to groundwater ranges from 2.64 to 5.53 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is generally toward the north to northwest.

- An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the removed UST. This oval shaped area appears to measure up to 48 feet long, 27 feet wide, and 5.5 feet thick.

- An area of unsturated soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's was encountered in Geoprobe boring G-1, soil boring MW-1, and hand auger boring HA-1. This oval shaped area appears to measure up to 30 feet long, 13 feet wide, and at least 1 foot thick.

- A dissolved phase contaminant plume exceeding the NR140 Enforcement Standards (ES) and Preventive Action Limits (PAL) has formed at the watertable in the area of the removed UST and has migrated toward the north/northwest. This plume is at least 175 feet long and up to 154 feet wide.

- Based on the most recent groundwater analytical results, one monitoring well (MW-1) shows NR140 ES exceedances. The other three monitoring wells (MW-2, -3, and -4) currently show no detects/exceedances for PVOC or Naphthalene. Monitoring wells MW-3 and MW-4 showed NR140 PAL exceedances for Chrysene (0.022 and 0.138 ppb, respectively) during the January 2016 groundwater sampling event.

- Based on the receptor survey, groundwater contamination near the on-site potable well does pose some risk. However, the on-site potable well samples showed no laboratory detects for VOC's, PVOC's or Naphthalene. The potential for vapor intrusion may also pose a risk to the on-site building and should be further assessed. There does not appear to be any risk to any surface waters or risk of contaminant migration along utility corridors.

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 in soil and groundwater to warrant a

completed investigation as defined by the WDNR guidelines and regulations.

Due to the soil contamination in the area of Geoprobe boring G-1, soil boring MW-1, and hand auger boring HA-1 exceeding the NR720 Non-Industrial Direct Contact RCL's and that only two rounds of groundwater samplings have been conducted, WDNR will likely require the following: 1) A soil excavation project to eliminate the direct contact risk and also reduce the contaminant mass in the source area. 2) Drilling project to replace monitoring well MW-1 and install an additional down-gradient well to the northwest of the removed UST. 3) Post excavation groundwater monitoring to determine contamination trends and plume stability. 4) Vapor assessment of the on-site building following the soil excavation project. Per WDNR response to this report, METCO will proceed with the project.

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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

Karen Maron
7420 W. Drummond St.
Iron River, WI 54847
(715) 372-5441

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

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

Fauerbach Surveying & Engineering
P.O. Box 140
Hillsboro, WI 54634
(608) 489-3363

Ground Source Inc.
3671 Monroe Road
De Pere, WI 54115
(920) 336-3659

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

1.3 Site Location

Site address:
W9468 Iron Rd
Beaver Dam, WI 53916

Latitude and Longitude:
43° 26' 3" N and 88° 52' 21" W

WTM Coordinates:
611241, 329630

Township/Range:
NW ¼, SE ¼, Section 7, Township 11 North, Range 14 East, Dodge County

1.4 Site History

In February 2015, Partner Engineering and Science, Inc. performed a Phase 1 Environmental Site Assessment (P1ESA) at the Maron Property. According to historical sources, the property was used for residential purposes as early as 1940. In 1956, the existing building was constructed and the property was developed as a salvage yard. The salvage yard operated at the subject property until approximately 1975. A pallet manufacturing business operated on the subject property from approximately 1975 until 2010. Currently the subject property is under land contract to Mark's Family Trucking, LLC.

Recognized environmental conditions identified during the P1ESA include the following:

1) A 1,000-gallon diesel UST registered for the site address in the Wisconsin state tank database. The diesel UST system was used by the pallet manufacturing business for fueling vehicles. The UST was removed as of January 1, 1991.
2) Former use of the property as a salvage yard.
3) A former floor drain in the warehouse that led to the on site septic system.
4) A closed spill case for the subject property, Beaver Dam City Compost Site (BRRTS case # 04-14-235314). The spill incident is listed as a release of <200 gallons of water soluble ink, which occurred on September 1, 1999. The spill case was closed on October 21, 1999 with no cleanup required.

On May 7, 2015, METCO conducted a Phase 2 Environmental Site Assessment

(P2ESA) at the subject property. During the P2ESA, eight soil borings (GP-1, -2, -3, -4, -5, -6, -7, and -8) were were advanced to a depth of 8 to 10 feet below ground surface (bgs) to assess the following areas: the former UST, salvage yard, and septic system. One soil sample and one groundwater sample were collected from each boring for VOC analysis. The only area where any significant levels of VOCs were detected in soil and groundwater was in the area of the removed diesel UST (GP-1). The petroleum contamination was subsequently reported to the WDNR, who then required that a site investigation be completed.

No other LUST or ERP sites are known to exist within ½ mile of the subject property.

2.0 GEOLOGY AND RECEPTORS

2.1 Regional and Local Geology and Hydrogeology

Topography and Regional Setting

According to the USGS Hydrologic Atlas, the subject property is located in the northern portion of the Rock-Fox River Basin. This area is characterized by a rolling landscape shaped by the underlying bedrock surface and glacial deposits of varying thickness.

The elevation of the site is approximately 880 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.

Unconsolidated materials in the area of the investigation generally consist of the following in downward stratigraphic order:

- Geologic material in the area of investigation generally consists of tan to brown to gray sandy silt/clay with gravel from ground surface to 10.5 to 13 feet bgs.

- Except in the area of MW-2, where a tan fine to medium grained silty sand was encountered from ground surface to 7 feet bgs and a hard till with cobbles and boulders was encountered from 7 to 13 feet bgs.

- In the areas of MW-3 and MW-4 a tan to gray fine to medium grained sand w/gravel was encountered at depths ranging from 3 to 4 feet bgs and

extending to the bedrock surface (10.5 to 11 feet bgs).

- In the area of B-2 a tan fine to medium grained silty sand was encountered at 10 to 10.5 feet bgs.

Unconsolidated materials are underlain by a gray dolomite which was encountered at depths ranging from 10.5 to 13 feet bgs.

Please note that this is a generalization of the local geology and may not be consistent throughout the entire investigation area.

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 from the monitoring wells, the depth to groundwater ranges from 2.64 to 5.53 feet bgs depending on well location and time of year.

According to the watertable measurements collected during the two groundwater sampling events, local horizontal groundwater flow in the immediate area of the subject property is generally toward the north to northwest. Groundwater Flow Direction Maps are presented in Section 6.

2.2 Receptors

Buildings, Basements, Sumps, Utility Corridors

One underground utility line, buried electrical, exists in the area of the groundwater contamination plume. Due to the shallow depth to groundwater in the area of this line (2.08 to 3.42 feet bgs) this utility line may be intersecting the water table, however, it is likely back filled with native soils.

The septic system that serves the subject property exits within the groundwater contamination plume. The drain field lines are likely back filled with a higher permeable material than the native soils and could act as conduits for contamination. However, these lines should be installed above the water-table and hence not in contact with contaminated groundwater.

The extent of the soil contamination appears to extend up to and underneath the southwest portion of the on-site building at depths ranging from at least 3-5.5 feet bgs, with levels exceeding the NR720 Groundwater and Non-Industrial Direct Contact RCL's. The groundwater contamination also appears to extend underneath the on-site building, based on the groundwater results from monitoring wells MW-1, MW-3, and MW-4. Soil and groundwater results collected near the on-site building show relatively high contaminant levels, therefore, the potential for vapor intrusion should be further evaluated.

Municipal and Private Water Supply Wells

The subject property and surrounding properties are all served by private potable wells. The potable well for the subject property exists approximately 110 feet to the northeast of the removed diesel UST system. The nearest developed neighboring properties are approximately 600 feet north/northwest, 900 feet west, and 1,000 feet southwest of the former UST system. Due to the significant distance, there does not appear to be any significant risk to the other nearby potable wells. Based on the Well Constructor's Report the subject property's well is cased to 54 feet bgs with cement pressure grouted from 10 to 54 feet bgs and a clay slurry from ground surface to 10 feet bgs. This well was completed to 222 feet bgs and draws water from a limestone and sandstone aquifer.

Based on the Preventive Action Limit exceedance in monitoring well MW-4 (Chrysene 0.138 ppb) near the on-site potable well during the January 2016 groundwater sampling event, there does appear to be some risk to the on-site potable well.

However, analytical results from the on-site potable showed no laboratory detects for VOC's (EPA 542.2) during the January 21, 2016 sampling events or PVOC's and Naphthalene during the April 18, 2016 sampling event.

The on-site potable well location is shown on the Detailed Site Map presented in Section 6.0. The Well Constructor's Report for the on-site well is presented in Appendix E.

Surface Waters

The nearest surface water is an unnamed drainage ditch, which exists approximately 275 feet to the north of the removed UST system. Currently, it does not appear that the petroleum contamination has migrated to any surface waters.

3.0 SITE INVESTIGATION RESULTS, RISK CRITERIA

3.1 Methods of Investigation

Workscope

The workscope performed for the LUST Investigation included the following:

1) Collected site background information.
2) On November 5, 2015, METCO prepared a LUST Investigation Field Procedures Workplan.
3) On November 30 through December 1, 2015, METCO completed a seven

soil borings and installed four monitoring wells. Eighteen soil samples were collected for field and/or laboratory analysis. Upon completion, the monitoring wells were properly developed by METCO personnel.

4) On January 21, 2016, METCO collected groundwater samples for field and laboratory analysis from all four monitoring wells and the on-site potable well (Round 1). METCO also conducted slug tests on three of the monitoring wells. The monitoring well network was also surveyed at this time.
5) On April 18, 2016, METCO collected groundwater samples for field and laboratory analysis from all four monitoring wells and the on-site potable well (Round 2).
6) On April 28, 2016, DKS Transport Services, LLC picked up and properly disposed of 6 drums of investigative waste.

Site Access Problems

No site access problems were encountered during the LUST investigation.

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 May 7, 2015, as part of the Phase 2 Environmental Site Assessment, eight Geoprobe borings (G-1 thru G-8) were completed with twenty-three soil samples collected for field description and/or laboratory analysis (VOC).

On November 30 through December 1, 2015, during the Drilling Project, six soil borings (MW-1 through MW-4, SB-1, and SB-2) and one hand auger boring (HA-1) were completed with eighteen soil samples collected for field and/or

laboratory analysis (PID, VOC, PVOC, Naphthalene, and/or PAH).

Soil analytical results are summarized in the Soil Analytical Results Tables with exceedances of the NR720 Groundwater RCL's, Non-Industrial Direct Contact RCL's and/or Soil Saturation Concentration (C-Sat) 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 May 7, 2015, as part of the Phase 2 Environmental Site Assessment, one groundwater sample was collected from each of the eight Geoprobe borings (G-1-W through G-8-W) for laboratory analysis (VOC).

On November 30 through December 1, 2015, during the Drilling Project, four monitoring wells (MW-1 through MW-4) were installed.

On January 21, 2016, METCO personnel collected groundwater samples from all four monitoring wells for laboratory analysis (VOC's, PAH, 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 monitoring wells.

On April 18, 2016, METCO personnel collected groundwater samples from all four monitoring wells for laboratory analysis (PVOC and Naphthalene). Field measurements for water level, temperature, pH, ORP, Dissolved Oxygen and specific conductance were collected from the monitoring wells.

Geoprobe boring and monitoring well groundwater analytical results are summarized in the Groundwater Analytical Table with exceedances of the NR140 Preventive Action Limits (PAL) and Enforcement Standards (ES) noted.

The Geoprobe 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.

Potable Well Sampling Data

On January 21, 2016, during the groundwater sampling event, METCO personnel collected one groundwater sample from the on-site potable well for laboratory analysis (VOC [EPA 542.2]).

On April 18, 2016, during the groundwater sampling event, METCO personnel collected one groundwater sample from the on-site potable well for laboratory analysis (PVOC and Naphthalene).

Potable well analytical results are summarized in the Groundwater Analytical Tables.

The potable well location is 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 Conductivities

On January 21, 2016, METCO conducted slug tests on monitoring wells MW-1, MW-2, and MW-4. 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) = 5.09×10^{-4} cm/sec
Transmissivity = 1.08×10^{-1} cm^2/sec
Flow Velocity (V=KI/n) = 5.16 m/yr

Monitoring Well MW-2
Hydraulic Conductivity (K) = 2.05×10^{-4} cm/sec
Transmissivity = 6.71×10^{-2} cm^2/sec
Flow Velocity (V=KI/n) = 2.08 m/yr

Monitoring Well MW-4
Hydraulic Conductivity (K) = 1.44×10^{-4} cm/sec
Transmissivity = 5.01×10^{-2} cm^2/sec
Flow Velocity (V=KI/n) = 1.46 m/yr

Since the thickness of the unconfined aquifer was unknown, the bottoms of monitoring wells MW-1, -2, and -4 were assumed as the lower extent of the aquifer for calculation purposes. Slug test data is presented in Appendix E.

3.4 Discussion of Results

Geologic material in the area of investigation generally consists of sandy silt/clay with gravel from ground surface to 10.5 to 13 feet bgs. Except in the area of MW-2, where a fine to medium grained silty sand was encountered from ground surface to 7 feet bgs and a hard till with cobbles and boulders was encountered from 7 to 13 feet bgs. In the areas of MW-3 and MW-4 a fine to

medium grained sand w/gravel was encountered at depths ranging from 3 to 4 feet bgs and extending to the bedrock surface (10.5 to 11 feet bgs). In the area of B-2 a fine to medium grained silty sand was encountered at 10 to 10.5 feet bgs.

Dolomite was encountered during the site investigation at depths ranging from 10.5 to 13 feet bgs.

According to data collected from the monitoring wells, the depth to groundwater ranges from 2.64 to 5.53 feet bgs depending on well location and time of year. The local horizontal groundwater flow in the immediate area of the subject property is generally toward the north to northwest.

An area of unsaturated soil contamination, which exceeds the NR720 Groundwater RCL values, exists in the area of the removed UST. This oval shaped area appears to measure up to 48 feet long, 27 feet wide, and 5.5 feet thick.

An area of unsturated soil contamination exceeding the NR720 Non-Industrial Direct Contact RCL's was encountered in Geoprobe boring G-1, soil boring MW-1, and hand auger boring HA-1. This oval shaped area appears to measure up to 30 feet long, 13 feet wide, and at least 1 foot thick.

A dissolved phase contaminant plume exceeding the NR140 Enforcement Standards (ES) and Preventive Action Limits (PAL) has formed at the watertable in the area of the removed UST and has migrated toward the north north-west. This plume is at least 175 feet long and up to 154 feet wide.

Based on the most recent groundwater analytical results, one monitoring well (MW-1) show NR140 ES exceedances. The other three monitoring wells (MW-2, -3, and -4) currently show no detects/exceedances for PVOC or Naphthalene. Monitoring wells MW-3 and MW-4 showed NR140 PAL exceedances for Chrysene (0.022 and 0.138 ppb respectively) during the January 2016 groundwater sampling event.

Based on the receptor survey, groundwater contamination near the on-site potable well does pose some risk. However, the on-site potable well samples showed no laboratory detects for VOC's, PVOC's or Naphthalene. The potential for vapor intrusion may also pose a risk to the on-site building and should be further assessed. There does not appear to be any risk to any surface waters or risk of contaminant migration along utility corridors.

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.

3.6 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.
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 Maron Property site is currently a "high risk" site, because there are NR140 ES exceedances within 60 feet of a potable well used to provide water for human consumption and NR140 ES exceedances within the bedrock of the site. However, it is important to note that the on-site potable well samples have not shown any laboratory detects for VOC's, PVOC's, and/or Naphthalene.

4.0 CONCLUSIONS

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 in soil and groundwater to warrant a completed investigation as defined by the WDNR guidelines and regulations.

4.2 Recommendations

Due to the soil contamination in the area of Geoprobe boring G-1, soil boring MW-1, and hand auger boring HA-1 exceeding the NR720 Non-Industrial Direct Contact RCL's and that only two rounds of groundwater samplings have been conducted, WDNR will likely require the following: 1) A soil excavation project to eliminate the direct contact risk and also reduce the contaminant mass in the source area. 2) Drilling project to replace monitoring well MW-1 and install an additional down-gradient well to the northwest of the removed UST. 3) Post excavation groundwater monitoring to determine contamination trends and plume stability. 4) Vapor assessment of the on-site building following the soil excavation project. Per WDNR response to this report, METCO will proceed with the project.

5.0 REFERENCES

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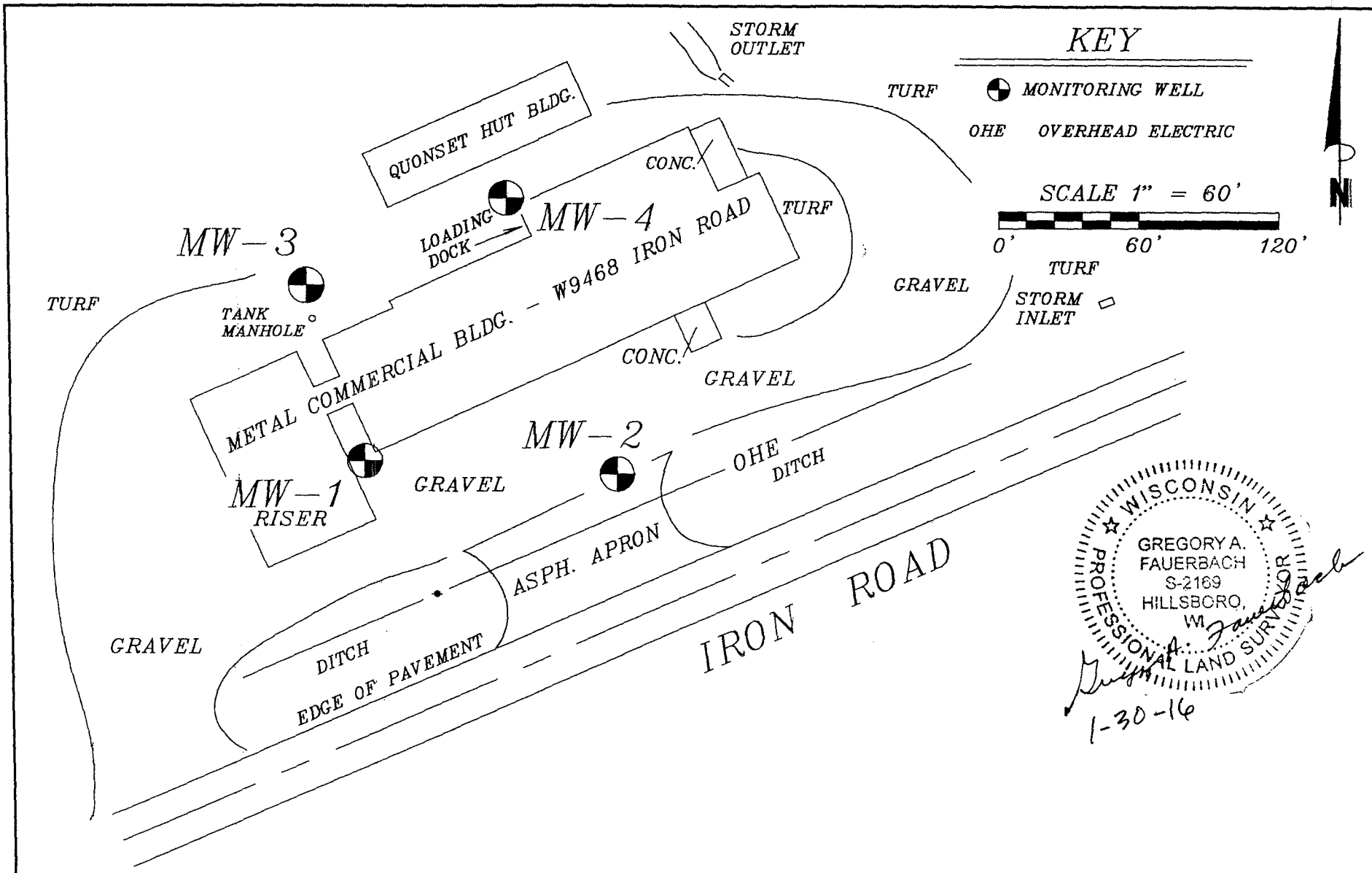
Weston, R.F., 1987, Remedial Technologies for Leaking Underground Storage Tanks.

Other information and data was collected from Karen Maron, Brent Maron, Diggers Hotline, Ground Source Inc, Fauerbach Surveying & Engineering, Synergy Environmental Lab, Wisconsin Department of Natural Resources, and local people.

6.0 FIGURES

B.1.a LOCATION MAP CONTOUR INTERVAL 10 FEET
MARON PROPERTY – BEAVER DAM, WI
SEAMLESS USGS TOPOGRAPHIC MAPS ON CD-ROM

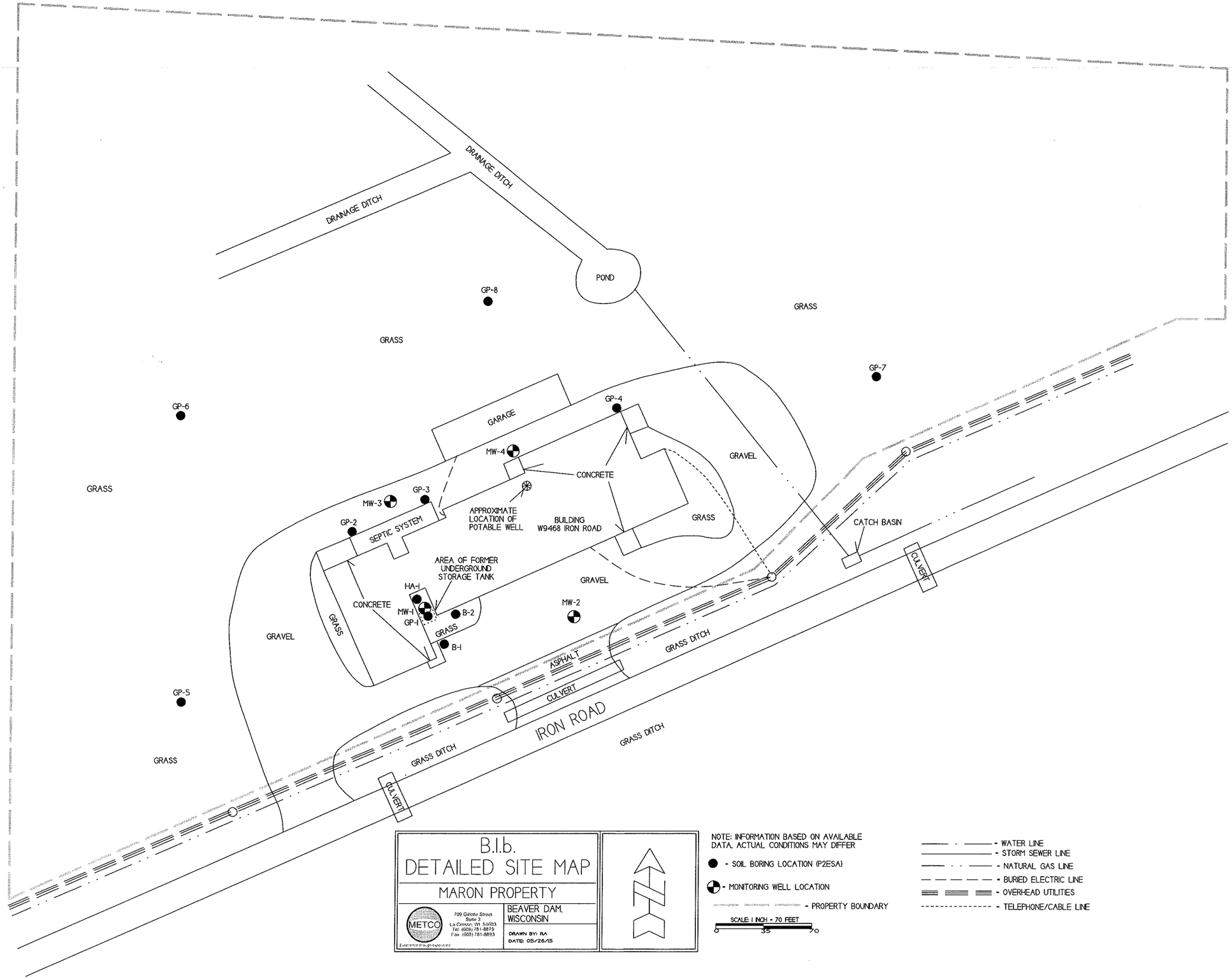


DRAWN BY: C.FAUERBACH DATE: 1-21-16 FIELD DWG. NO.: 50116 BRRTS #	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: MARON PROPERTY W9468 IRON ROAD BEAVER DAM, WI 53916	SHEET NAME LOCATION MAP	PAGE 1 OF 1

WELL	DODGE COUNTY COORD. SYSTEM NAD83(2011) NORTH	EAST	TOP OF WELL ELEVATION (NAVD88)	TOP OF PVC CASING ELEVATION (NAVD88)
MW-1	714862.43	837995.54	882.0' GRADE@RISER	884.27'
MW-2	714856.41	838103.70	881.77' FLUSH TYPE	881.44'
MW-3	714937.93	837971.45	880.02' FLUSH TYPE	879.52'
MW-4	714975.00	838056.95	879.64' FLUSH TYPE	879.08'

WISCONSIN
GREGORY A. FAUERBACH S-2169 HILLSBORO, WI
PROFESSIONAL LAND SURVEYOR
1-30-16

DRAWN BY: G.FAUERBACH DATE: 1-21-16 FIELD DWG. NO.: 50116 BRRTS #	REVISIONS FAUERBACH SURVEYING & ENG. PO BOX 140, HILLSBORO, WI 54634 PH/FAX 608-489-3363	PROJECT: MARON PROPERTY W9468 IRON ROAD BEAVER DAM, WI 53916	SHEET NAME DATA SHEET	PAGE 1 OF 1



B.I.b.
DETAILED SITE MAP
MARON PROPERTY

METCO
709 Gillette Street
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Tel: (608) 781-8879
Fax: (608) 781-8893
Experience through excellence

BEAVER DAM, WISCONSIN

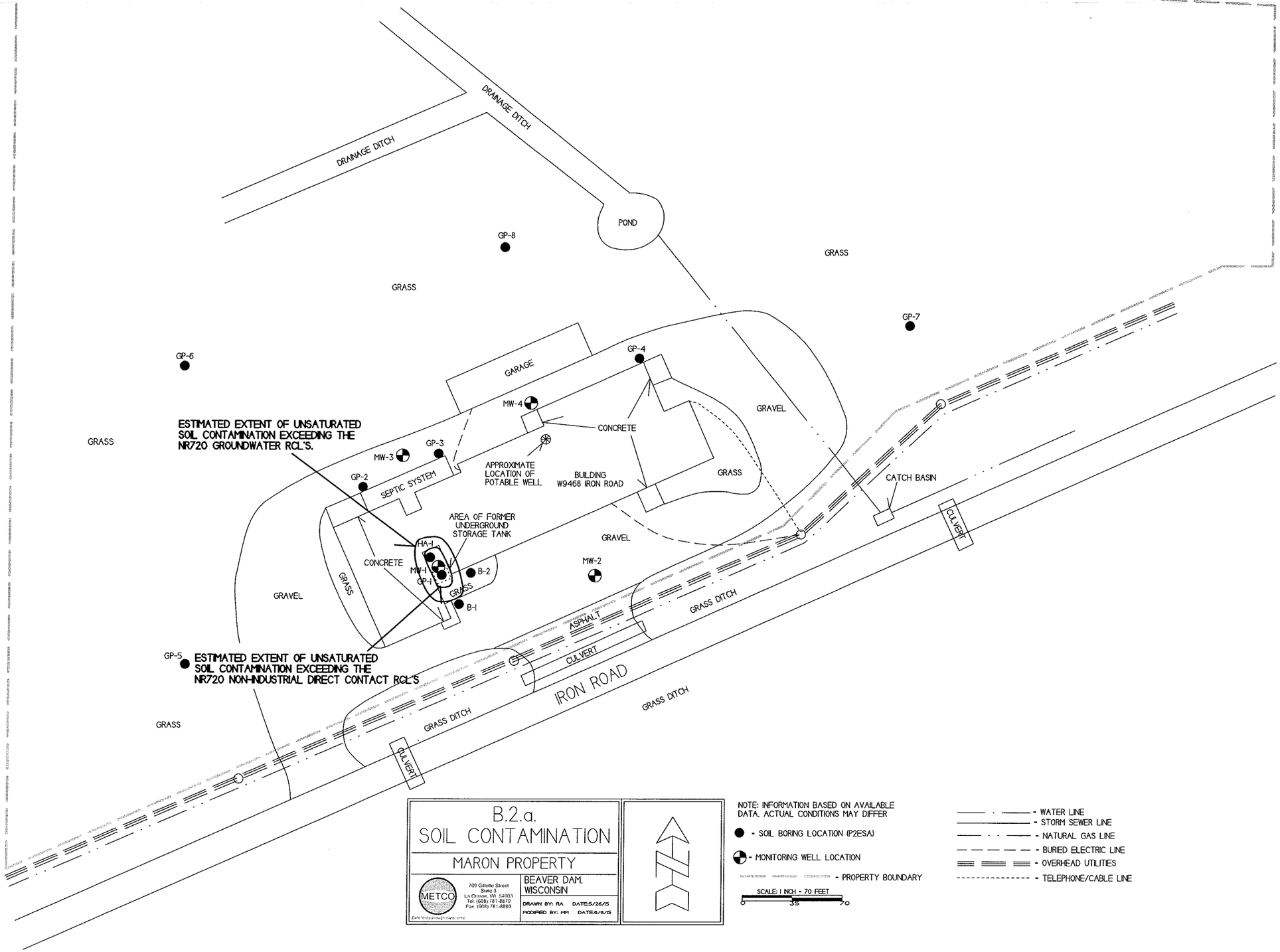
DRAWN BY: RA
DATE: 05/26/15

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- ● - SOIL BORING LOCATION (P2ESA)
- ◓ - MONITORING WELL LOCATION
- - PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET
0 35 70

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE



B.2.a.
SOIL CONTAMINATION
MARON PROPERTY

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BEAVER DAM, WISCONSIN

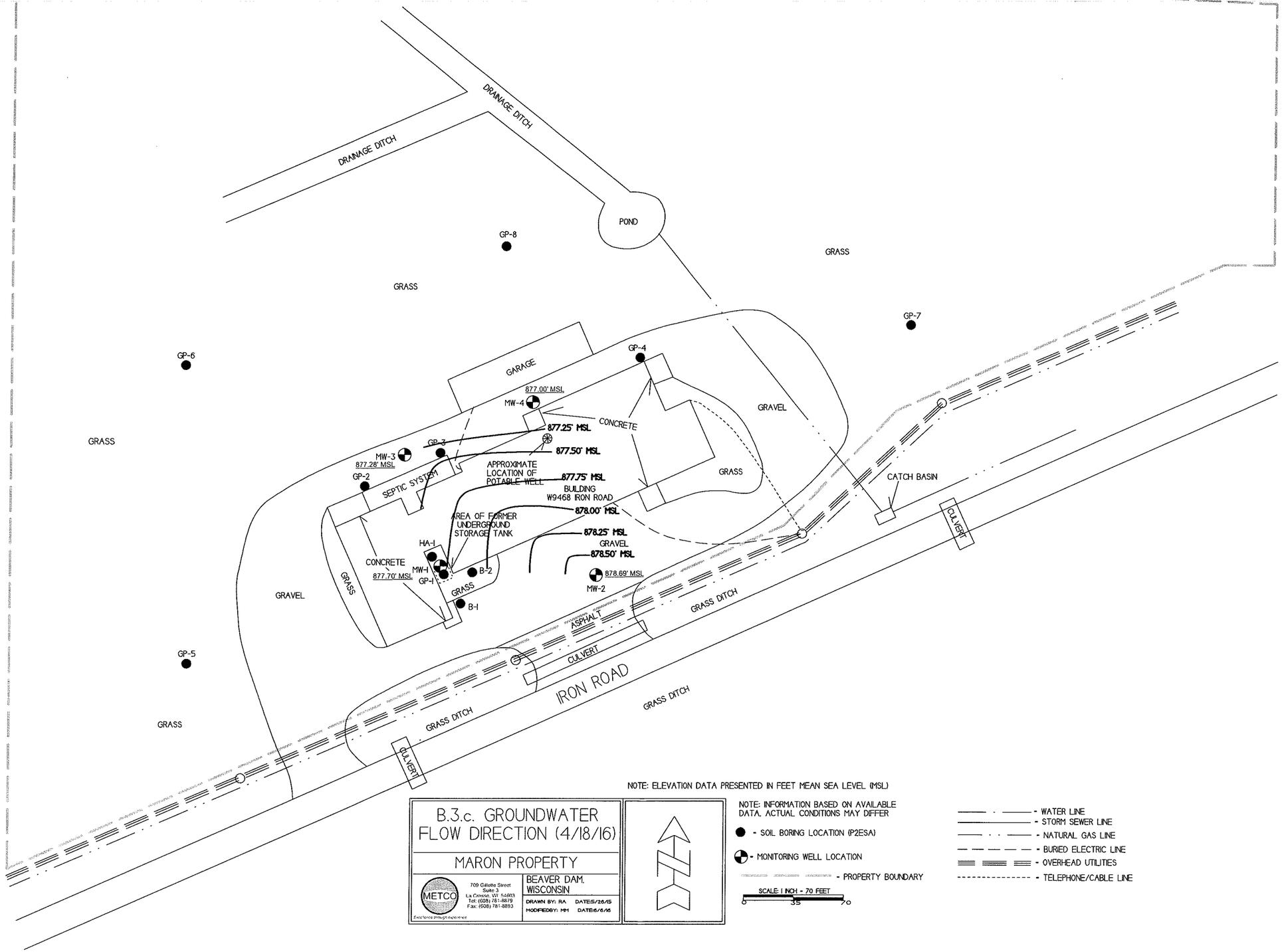
DRAWN BY: RA DATE:5/26/15
MODIFIED BY: MH DATE:6/8/15

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE



NOTE: ELEVATION DATA PRESENTED IN FEET MEAN SEA LEVEL (MSL)

B.3.c. GROUNDWATER FLOW DIRECTION (4/18/16)

MARON PROPERTY

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BEAVER DAM, WISCONSIN

DRAWN BY: RA DATE:5/26/15

MODIFIED BY: MH DATE:6/6/16

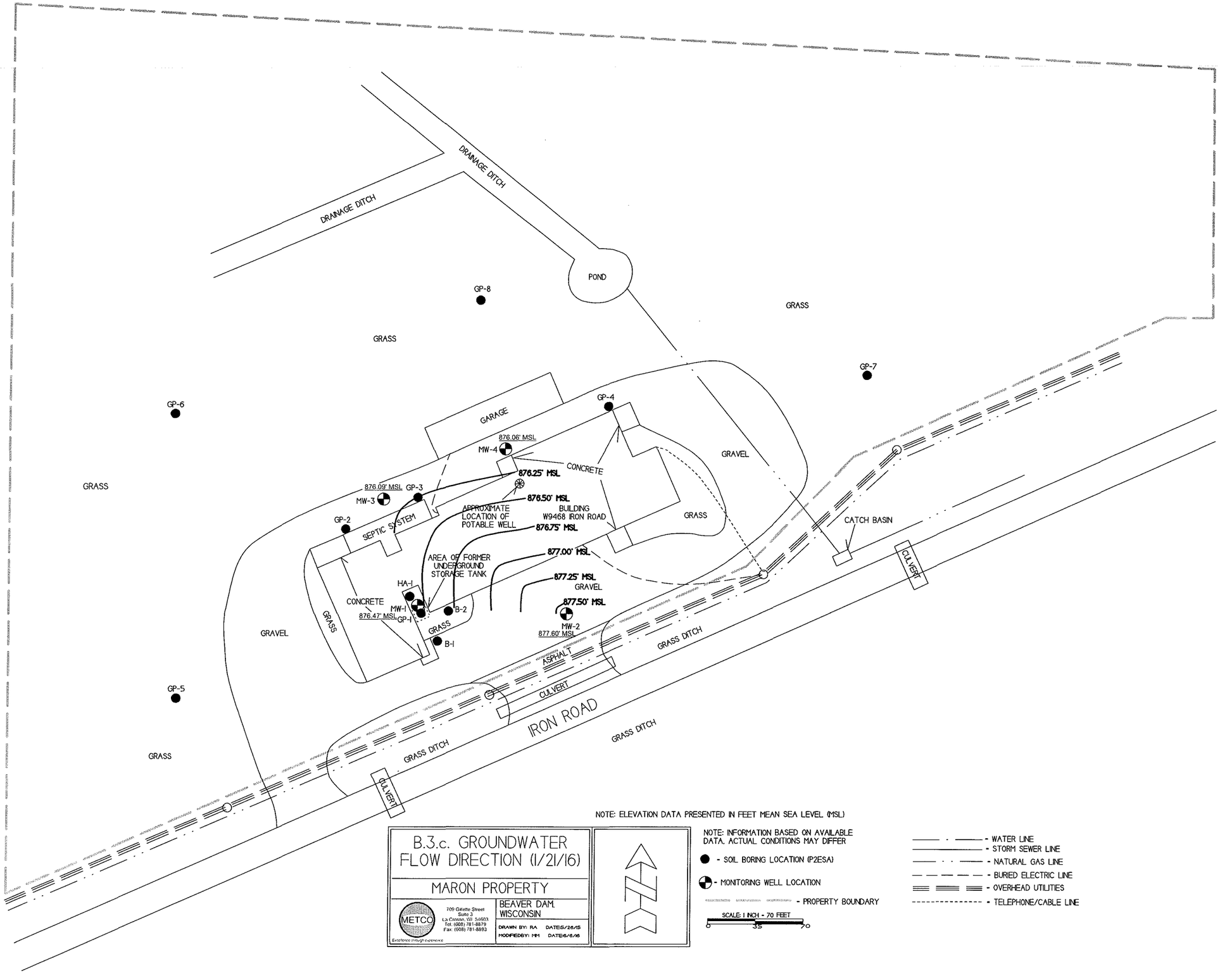
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET

0 35

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE



NOTE: ELEVATION DATA PRESENTED IN FEET MEAN SEA LEVEL (MSL)

B.3.c. GROUNDWATER FLOW DIRECTION (1/21/16)

MARON PROPERTY

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Excellence through experience

BEAVER DAM
WISCONSIN

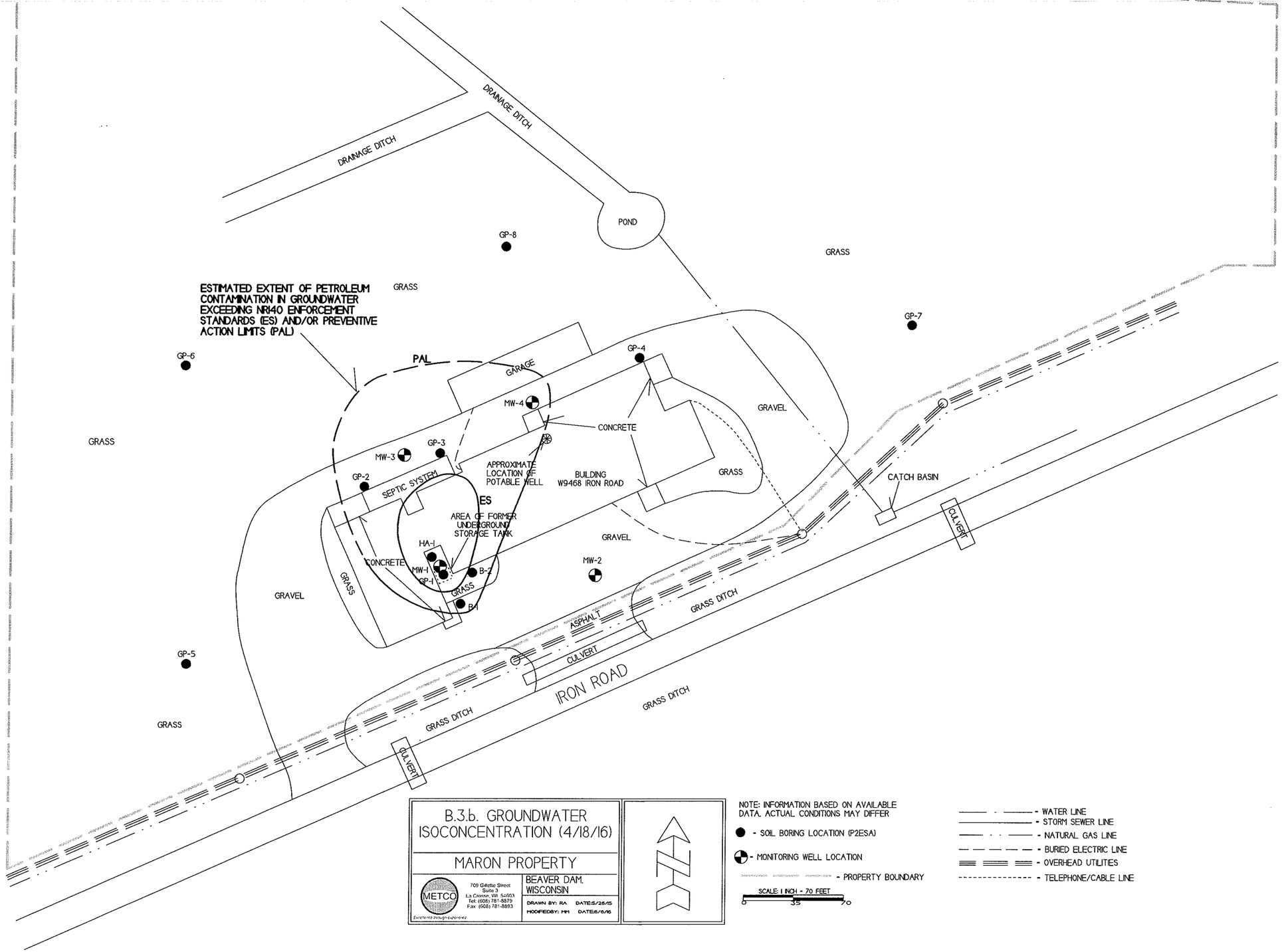
DRAWN BY: RA DATE:5/26/15
MODIFIED BY: MH DATE:6/6/16

NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET
35

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE



B.3.b. GROUNDWATER ISOCONCENTRATION (4/18/16)

MARON PROPERTY

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Excellence through experience

BEAVER DAM, WISCONSIN

DRAWN BY: RA DATE:5/26/15

MODIFIEDBY: MH DATE:6/6/16

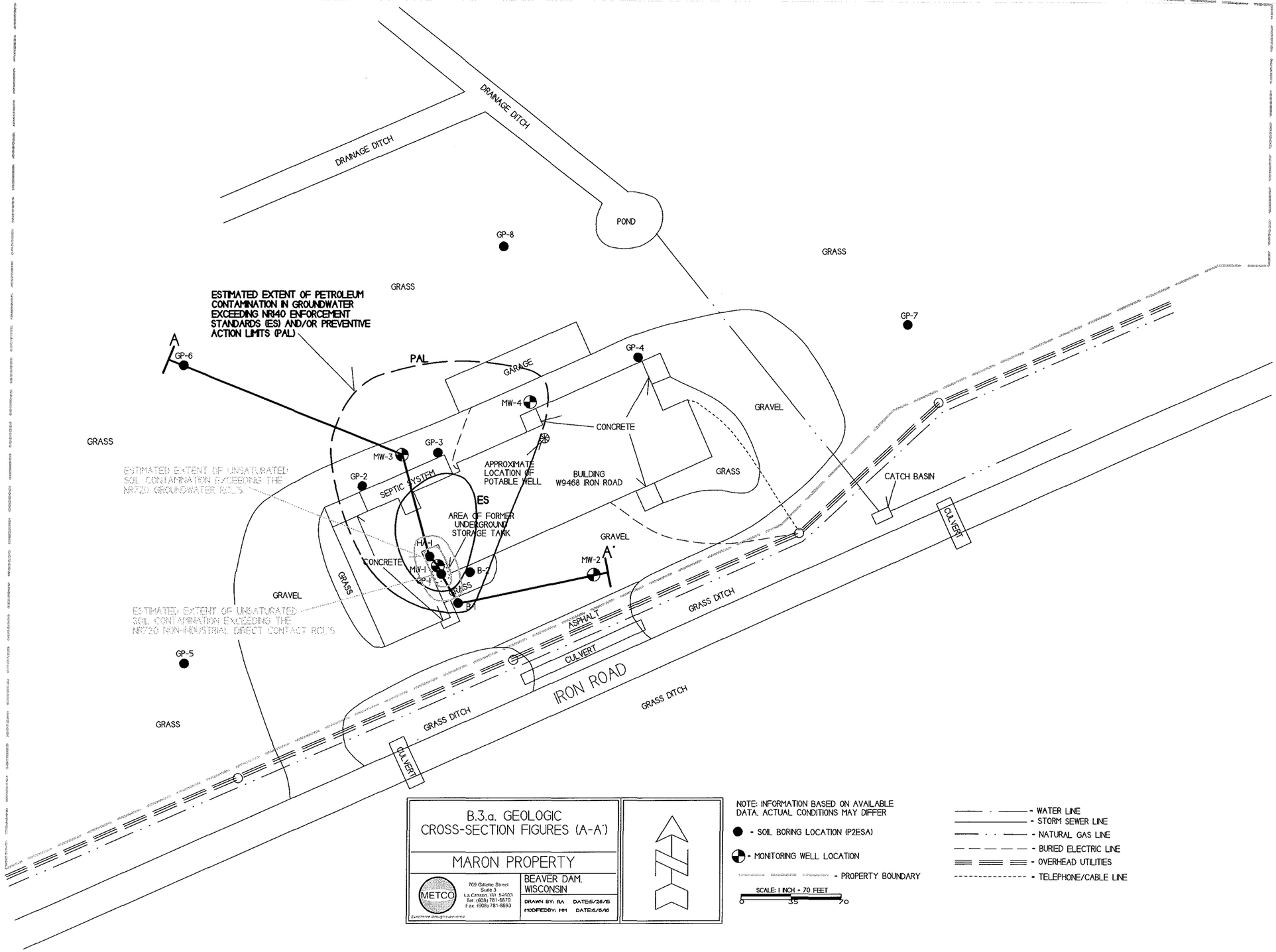
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET

0 35 70

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE



B.3.a. GEOLOGIC CROSS-SECTION FIGURES (A-A')

MARON PROPERTY

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Tel: (608) 781-5879
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BEAVER DAM, WISCONSIN

DRAWN BY: RA DATE: 5/25/15

MODIFIED BY: MM DATE: 6/8/16

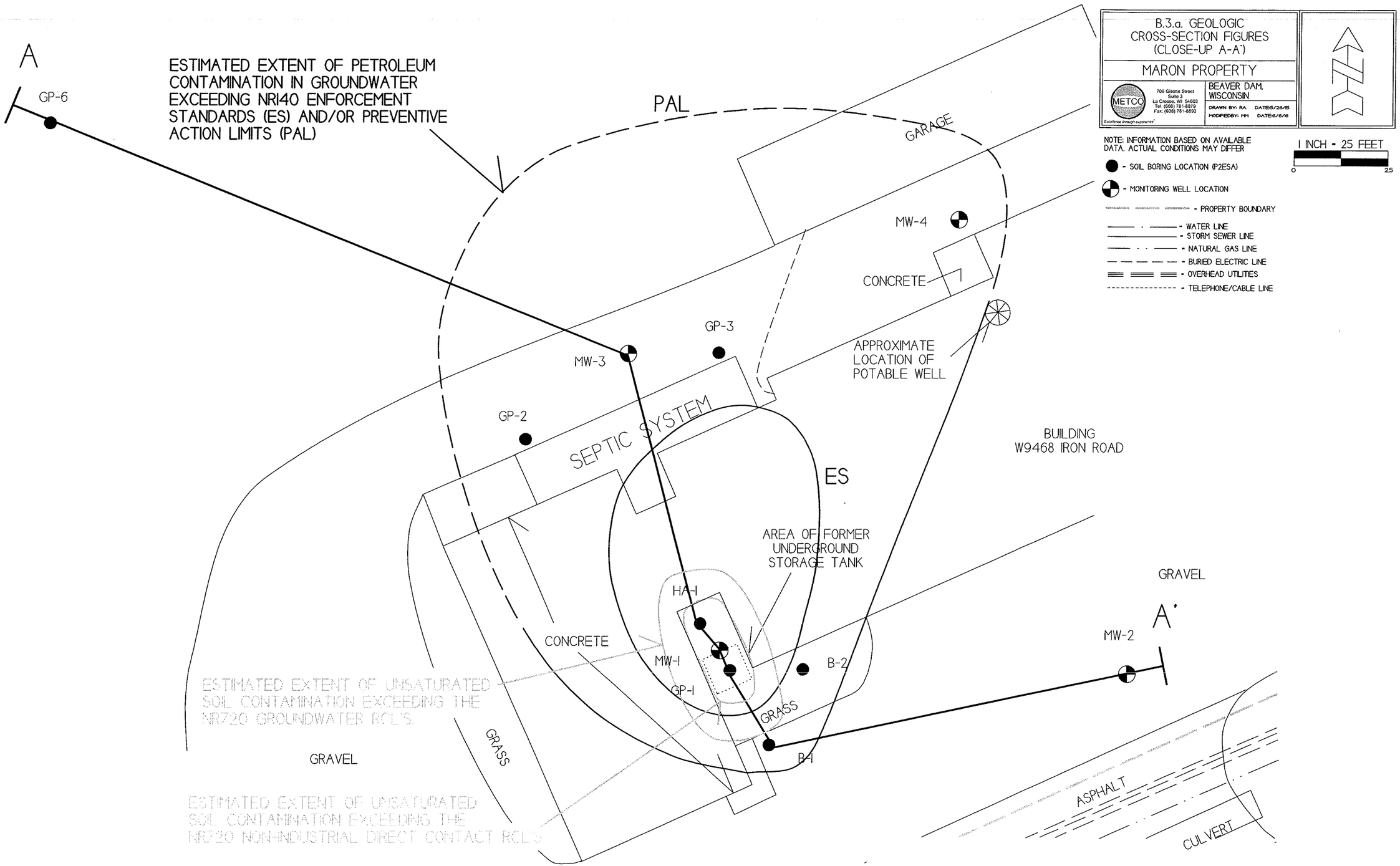
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER

- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY

SCALE: 1 INCH = 70 FEET

0 35 70

- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE


A
GP-6
ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN GROUNDWATER EXCEEDING NR140 ENFORCEMENT STANDARDS (ES) AND/OR PREVENTIVE ACTION LIMITS (PAL)
PAL
GARAGE
MW-4
CONCRETE
GP-3
MW-3
APPROXIMATE LOCATION OF POTABLE WELL
GP-2
SEPTIC SYSTEM
ES
BUILDING W9468 IRON ROAD
AREA OF FORMER UNDERGROUND STORAGE TANK
HA-1
CONCRETE
MW-1
B-2
GP-1
GRASS
B-1
GRAVEL
A'
MW-2
ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 GROUNDWATER RCL'S
GRASS
GRAVEL
ESTIMATED EXTENT OF UNSATURATED SOIL CONTAMINATION EXCEEDING THE NR720 NON-INDUSTRIAL DIRECT CONTACT RCL'S
ASPHALT
CULVERT
B.3.a. GEOLOGIC CROSS-SECTION FIGURES (CLOSE-UP A-A')
MARON PROPERTY
METCO
709 Gillette Street Suite 3 La Crosse, WI 54603 Tel: (608) 781-8879 Fax: (608) 781-8893
Excellence through experience
BEAVER DAM, WISCONSIN
DRAWN BY: RA DATE:5/26/15
MODFIEDBY: MM DATE:6/8/15
NOTE: INFORMATION BASED ON AVAILABLE DATA. ACTUAL CONDITIONS MAY DIFFER
1 INCH = 25 FEET
0
25
- SOIL BORING LOCATION (P2ESA)
- MONITORING WELL LOCATION
- PROPERTY BOUNDARY
- WATER LINE
- STORM SEWER LINE
- NATURAL GAS LINE
- BURIED ELECTRIC LINE
- OVERHEAD UTILITIES
- TELEPHONE/CABLE LINE

B.3.a. GEOLOGIC CROSS-SECTION FIGURES (A-A')

MARON PROPERTY

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Excellence through experience

BEAVER DAM, WISCONSIN

DRAWN BY: MM

DATE: 6/8/2015

VERTICAL SCALE: 1 INCH = 5 FEET

HORIZONTAL SCALE: 1 INCH = 25 FEET

- GEOPROBE BORING LOCATION (P2ESA)
- SOIL BORING LOCATION
- MONITORING WELL LOCATION
- GEOPROBE BORING SAMPLING INTERVAL
- SOIL BORING SAMPLING LOCATION
- MONITORING WELL SAMPLING LOCATION
- WATERTABLE
- FORMER 1,000-GALLON DIESEL UST

- TAN TO BROWN TO GRAY SANDY SILT/CLAY.
- TAN FINE TO MEDIUM GRAINED SILTY SAND WITH GRAVEL.
- TILL WITH COBBLES AND BOULDERS.
- TAN TO GRAY FINE TO MEDIUM GRAINED SAND WITH GRAVEL.
- GRAY DOLOMITE (BEDROCK).

NOTES:
- 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)
- ONLY SOIL AND GROUNDWATER EXCEEDANCES HAVE BEEN DOCUMENTED ON THE MAP. SEE DATA TABLES AND/OR LABORATORY REPORTS FOR ALL RESULTS
- SOIL AND GROUNDWATER SAMPLE DATA IS BASED ON LABORATORY RESULTS FROM SAMPLES COLLECTED DURING THE:
  GEOPROBE PROJECT - (5/7/2015)
  DRILLING PROJECT - (11/30/2015)
  ROUND 1 GROUNDWATER SAMPLING (PAH-1) - (1/21/2016)
  ROUND 2 GROUNDWATER SAMPLING - (4/18/2016)

PID-PHOTOIONIZATION DETECTOR
PVOC-PETROLEUM VOLATILE ORGANIC COMPOUNDS
PAH-POLYCYCLIC AROMATIC HYDROCARBON
B-BENZENE
E-ETHYLBENZENE
N-NAPHTHALENE
T-TOLUENE
1,2,4-TMB-1,2,4-TRIMETHYLBENZENE
1,3,5-TMB-1,3,5-TRIMETHYLBENZENE
TMB-TRIMETHYLBENZENE
X-XYLENE
B(a)A-BENZO(a)ANTHRACENE
B(a)P-BENZO(a)PYRENE
B(f)F-BENZO(b)FLURANTHENE
C-CHRYSENE
DB(a,h)A-DIBENZO(a,h)ANTHRACENE
I(1,2,3-cd)P-INDENO(1,2,3-cd)PYRENE

A

A'

882' MSL
880' MSL
875' MSL
870' MSL
865' MSL
860' MSL

SEPTIC SYSTEM
ON-SITE BUILDING
GRASS
GRAVEL

G-6
4/18/16
G-6 (0-4 FEET) NO DETECTS FOR VOC'S'S
G-6 (4-8 FEET) NOT SAMPLED
G-6 (8-10 FEET) NOT SAMPLED
GP-6 NO DETECTS VOC'S

MW-3
MW-3-1 3.5 FEET PID-0 NOT SAMPLED
MW-3-2 8.0 FEET PID-0 NOT SAMPLED
MW-3-3 10.5 FEET PID-0 NOT SAMPLED
MW-3 1/21/16 C-0.022

HA-1
3.0 FEET
PID-0
B(a)A-2.27
B(a)P-2.0
B(b)F-3.04
C-2.04
DB(a,h)A-0.309
I(1,2,3-cd)P-1.17

MW-1
4/18/16
E-550
N-490
T-760
TMB-4930
X-7360

GP-1
E-5500
N-2140
T-820
TMB-28500
X-23400
G-1 (0-4 FEET)
E-42
N-42
T-165
1,2,4 TMB-147
1,3,5 TMB-50
X-246
G-1 (4-8 FEET) NOT SAMPLED
G-1 (8-10 FEET) NOT SAMPLED

MW-1-1 3.5 FEET PID-0 NOT SAMPLED
MW-1-2 8.0 FEET PID-500 E-125 N-30.3 T-50 1,2,4 TMB-380 1,3,5 TMB-25 X-69
MW-1-3 10.5 FEET PID-200 B-3.4 E-49 N-12.6 T-16.6 1,2,4 TMB-155 1,3,5 TMB-54 X-263

B-1
B-1-1 3.0 FEET PID-0 NO DETECTS FOR PVOCS OR PAHS
B-1-2 6.0 FEET PID-30 NO DETECTS FOR PVOCS
B-1-3 10.0 FEET PID-20 B-0.0295

MW-2
MW-2-1 3.5 FEET PID-0 NOT SAMPLED
MW-2-2 6.5 FEET PID-0 NOT SAMPLED
MW-2 NO EXCEEDANCES PVOC'S OR PAHS

ESTIMATED EXTENT OF PETROLEUM CONTAMINATION IN SOIL AND GROUNDWATER EXCEEDING NR720 (NON-INDUSTRIAL DIRECT CONTACT AND/OR GROUNDWATER RCLS) AND/OR NR140 (ENFORCEMENT STANDARD AND/OR PREVENTIVE ACTION LIMIT)

7.0 DATA TABLES, GRAPHS, AND STATISTICAL ANALYSIS

A.2. Soil Analytical Results Table
Maron Property BRRTS #03-14-563925

Sample ID	Depth (feet)	Saturation U/S	Date	PID	Lead (ppm)	DRO (ppm)	GRO (ppm)	Benzene (ppm)	Ethyl Benzene (ppm)	MTBE (ppm)	Naph-thalene (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: Exeedance Count	Hazard Index	Cumulative Cancer Risk
GP-1	0-4	U	05/07/15	NM	NS	NS	NS	<0.32	**42**	<0.5	**11.2**	**16.5**	**147**	**50**	**246**	SEE VOC SPREAD SHEET	**3**	2.05E+00	7.8E-06
GP-1	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-1	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
GP-2	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-2	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-2	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
GP-3	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-3	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-3	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
GP-4	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-4	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-4	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
GP-5	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-5	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-6	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-6	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-6	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
GP-7	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-7	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-7	8-12	S	05/07/15	NM	NOT SAMPLED											NS			
GP-8	0-4	U	05/07/15	NM	NS	NS	NS	<0.016	<0.027	<0.025	<0.087	<0.031	<0.078	<0.089	<0.029	SEE VOC SPREAD SHEET			
GP-8	4-8	S	05/07/15	NM	NOT SAMPLED											NS			
GP-8	8-10	S	05/07/15	NM	NOT SAMPLED											NS			
MW-1-1	3.0	U	11/30/15	450	NS	NS	NS	**7.6**	**123**	<0.5	**14.3**	**52**	**350***	**121**	**658***	NS	**9**	5.04E+00	4.6E-05
MW-1-2	6.0	S	11/30/15	500	NS	NS	NS	<0.8	**125**	<1.25	**30.3**	**50**	**380***	**125**	**651***	SEE VOC SPREADSHEET			
MW-1-3	10.5	S	11/30/15	200	NS	NS	NS	**3.4**	**49**	<0.25	**12.6**	**16.6**	**155**	**54**	**263***				
MW-2-1	3.5	U	11/30/15	0	NOT SAMPLED														
MW-2-2	6.5	S	11/30/15	0	NOT SAMPLED														
MW-3-1	3.5	U	11/30/15	0	NOT SAMPLED														
MW-3-2	8.0	S	11/30/15	0	NOT SAMPLED														
MW-3-3	10.5	S	11/30/15	0	NOT SAMPLED														
MW-4-1	3.5	U	11/30/15	0	NOT SAMPLED														
MW-4-2	8.0	S	11/30/15	0	NOT SAMPLED														
MW-4-3	11.0	S	11/30/15	0	NOT SAMPLED														
HA-1	3.0	U	11/30/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075		**5**	4.68E-03	2.00E-04
B-1-1	3.0	U	12/01/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
B-1-2	6.0	S	12/01/15	30	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
B-1-3	10.5	S	12/01/15	20	NS	NS	NS	**0.0295**	0.0169	<0.025	0.179	0.081	0.92	0.33	1.058				
B-2-1	3.0	U	12/01/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
B-2-2	6.0	S	12/01/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
B-2-3	10.5	S	12/01/15	0	NS	NS	NS	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	<0.075				
Groundwater RCL					**27**	-	-	**0.00512**	**1.57**	**0.027**	**0.659**	**1.11**	**1.38**		**3.94**	-			
Non-Industrial Direct Contact RCL					**400**	-	-	**1.49**	**7.47**	**59.4**	**5.15**	**818**	**89.8**	**182**	**258**	-	0	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 & Asteric * = C-sat Exceedance
NS = Not Sampled NM = Not Measured
(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

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)
Maron Property BRRTS #03-14-563925

Sample	Depth (feet)	Saturation U/S	Date	Acenaph-thene (ppm)	Acenaph-thylene (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-Methyl-naphthalene (ppm)	2-Methyl-naphthalene (ppm)	Naph-thalene (ppm)	Phenan-threne (ppm)	Pyrene (ppm)	DIRECT CONTACT PVOC & PAH COMBINED		
																						Exeedance Count	Hazard Index	Cumulative Cancer Risk
MW-1-1	3.0	U	11/30/15	<0.1005	<0.099	0.118	0.38	0.195	0.65	0.185	0.36	0.49	<0.075	0.87	0.136	0.162	6.3	13.6	14.3	0.82	0.76	9	5.04E+00	4.6E-05
HA-1	3.0	U	11/30/15	0.158	0.201	0.84	2.27	2.0	3.04	1.37	1.07	2.04	0.309	3.9	0.281	1.17	0.107	0.080	0.086	2.93	3.4	5	4.68E-03	2.00E-04
B-1-1	3.0	U	12/01/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.015	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192			
B-2-1	3.0	U	12/01/15	<0.0201	<0.0198	<0.0171	<0.0191	<0.0143	<0.019	<0.02	<0.0174	<0.0192	<0.015	<0.0192	<0.0184	<0.0165	<0.0205	<0.0199	<0.0203	<0.0198	<0.0192			
Groundwater RCL				---	---	197	---	0.47	0.48	---	---	0.145	---	88.8	14.8	---	---	---	0.659	---	54.5			
Non-Industrial Direct Contact RCL				3440	---	17200	0.148	0.0148	0.148	---	1.48	14.8	0.0148	2290	2290	0.148	15.6	229	5.15	---	1720	0	1.00E+00	1.00E-05
Soil Saturation Concentration (C-sat)*				---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			

Bold = Groundwater RCL Exceedance
Bold & Underline =Industrial Direct Contact RCL Exceedance
Bold &Asteric * = C-sat Exceedance
NS = Not Sampled
(ppm) = parts per million
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.2. Soil Analytical Results Table
Maron Property BRRTS #03-14-563925

Sampling Conducted on:	05/07/15	05/07/15	05/07/15	05/07/15	05/07/15	05/07/15	05/07/15	05/07/15	11/30/15	Bold = Groundwater RCL	Underline & Bold = Direct Contact RCL	Asteric * & Bold =Soil Saturation (C-sat) RCL
VOC's												
Sample ID#	GP-1-S	GP-2-S	GP-3-S	GP-4-S	GP-5-S	GP-6-2	GP-7-S	GP-8-S	MW-1-2			
Sample Depth/ft.	0-4	0-4	0-4	0-4	0-4	0-4	0-4	0-4	6			
Solids Percent	87.1	87.7	84.3	79.6	88.2	81.4	84.1	80.3	88.9			
Benzene/ppm	< 0.32	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.016	< 0.8	0.00512	1.49	1820
Bromobenzene/ppm	< 0.78	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 1.95	= =	354	= =
Bromodichloromethane/ppm	< 0.3	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.75	0.000326	0.39	= =
Bromoform/ppm	< 0.46	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 0.023	< 1.15	0.00233	61.6	= =
tert-Butylbenzene/ppm	< 0.7	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 1.75	= =	183	183
sec-Butylbenzene/ppm	1.86 "J"	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	< 0.036	4.6 "J"	= =	145	145
n-Butylbenzene/ppm	8.3	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	< 0.086	25.9	= =	108	108
Carbon Tetrachloride/ppm	< 0.42	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 1.05	0.00388	0.85	= =
Chlorobenzene/ppm	< 0.78	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 1.95	= =	392	= =
Chloroethane/ppm	< 0.9	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 0.045	< 2.25	0.227	= =	= =
Chloroform/ppm	< 0.52	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 0.026	< 1.3	0.0033	0.42	= =
Chloromethane/ppm	< 5	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 0.25	< 12.5	0.0155	171	= =
2-Chlorotoluene/ppm	< 0.58	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 1.45	= =	= =	= =
4-Chlorotoluene/ppm	< 0.64	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 0.032	< 1.6	= =	= =	= =
1,2-Dibromo-3-chloropropane/ppm	< 1.56	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	< 3.9	0.000173	0.01	= =
Dibromochloromethane/ppm	< 0.62	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 1.55	0.032	0.93	= =
1,4-Dichlorobenzene/ppm	< 0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 1.5	0.144	3.48	= =
1,3-Dichlorobenzene/ppm	< 0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 1.5	1.15	297	297
1,2-Dichlorobenzene/ppm	< 0.78	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 0.039	< 1.95	1.17	376	376
Dichlorodifluoromethane/ppm	< 0.86	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 0.043	< 2.15	3.08	135	= =
1,2-Dichloroethane/ppm	< 0.6	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 1.5	0.00284	0.61	540
1,1-Dichloroethane/ppm	< 0.5	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 1.25	0.484	4.72	= =
1,1-Dichloroethene/ppm	< 0.58	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 1.45	0.00502	342	= =
cis-1,2-Dichloroethene/ppm	< 0.42	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 0.021	< 1.05	0.0412	156	= =
trans-1,2-Dichloroethene/ppm	< 0.48	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 0.024	< 1.2	0.0588	211	= =
1,2-Dichloropropane/ppm	< 0.5	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 1.25	0.00332	1.33	= =
2,2-Dichloropropane/ppm	< 2	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 0.1	< 5	= =	527	527
1,3-Dichloropropane/ppm	< 0.62	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 1.55	= =	1490	1490
Di-isopropyl ether/ppm	< 0.24	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.6	= =	2260	2260
EDB (1,2-Dibromoethane)/ppm	< 0.7	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 1.75	0.0000282	0.05	= =
Ethylbenzene/ppm	42	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	< 0.027	125	1.57	7.47	480
Hexachlorobutadiene/ppm	< 2.2	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 0.11	< 5.5	= =	6.23	= =
Isopropylbenzene/ppm	5.4	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	< 0.037	12.7	= =	= =	= =
p-Isopropyltoluene/ppm	< 1.12	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 0.056	< 2.8	= =	162	162
Methylene chloride/ppm	< 4.4	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 0.22	< 11	0.00256	60.7	= =
Methyl tert-butyl ether (MTBE)/ppm	< 0.5	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 1.25	0.027	59.4	8870
Naphthalene/ppm	11.2	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	< 0.087	30.3	0.659	5.15	= =
n-Propylbenzene/ppm	24.4	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	< 0.035	66	= =	= =	= =
1,1,2,2-Tetrachloroethane/ppm	< 0.26	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.013	< 0.65	0.000156	0.75	= =
1,1,1,2-Tetrachloroethane/ppm	< 0.58	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 1.45	0.0533	2.59	= =
Tetrachloroethene (PCE)/ppm	< 1.08	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 0.054	< 2.7	0.00454	30.7	= =
Toluene/ppm	16.5	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	< 0.031	50	1.11	818	818
1,2,4-Trichlorobenzene/ppm	< 1.7	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 0.085	< 4.25	0.408	22.1	= =
1,2,3-Trichlorobenzene/ppm	< 2.4	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 0.12	< 6	= =	48.9	= =
1,1,1-Trichloroethane/ppm	< 0.8	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04	< 2	0.14	= =	= =
1,1,2-Trichloroethane/ppm	< 0.66	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 0.033	< 1.65	0.00324	1.48	= =
Trichloroethene (TCE)/ppm	< 0.84	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 0.042	< 2.1	0.00358	0.64	= =
Trichlorofluoromethane/ppm	< 1.2	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 0.06	< 3	= =	1120	= =
1,2,4-Trimethylbenzene/ppm	147	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	< 0.078	380*	1.38	89.8	219
1,3,5-Trimethylbenzene/ppm	50	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	< 0.089	125		182	182
Vinyl Chloride/ppm	< 0.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.5	0.000138	0.07	= =
m&p-Xylene/ppm	183	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	< 0.07	480*	3.94	258	258
o-Xylene/ppm	63	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	< 0.029	171*			

NS = not sampled, NM = Not Measured
(ppm) = parts per million
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
= = No Exceedences
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table
Maron Property BRRTS #03-14-563925

Well MW-1
PVC Elevation = 884.27 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/21/16	876.47	7.80	NS	<44	**1920**	<110	**550**	**830**	**4560**	**9990**
04/18/16	877.70	6.57	NS	<46	**1580**	<49	**490**	*760*	**4930**	**7360**
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

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

Well MW-2
PVC Elevation = 881.44 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/21/16	877.60	3.84	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
04/18/16	878.69	2.75	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

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

Well MW-3
PVC Elevation = 879.52 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/21/16	876.09	3.43	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
04/18/16	877.28	2.24	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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
Maron Property BRRTS #03-14-563925

Well MW-4
PVC Elevation = 879.08 (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)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/21/16	876.06	3.02	NS	<0.44	<0.71	<1.1	<1.6	<0.44	<3.1	<3.1
04/18/16	877.00	2.08	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD **ES = Bold**			**15**	**5**	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

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

Well W9468 PW

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naph-thalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
01/21/16	NM	NM	NS	<0.43	<0.39	<1	<0.67	<0.45	<0.99	<1.40
04/18/16	NM	NM	NS	<0.46	<0.73	<0.49	<2.6	<0.39	<1.51	<2.06
ENFORCE MENT STANDARD **ES = Bold**			**15**	*5*	**700**	**60**	**100**	**800**	**480**	**2000**
PREVENTIVE ACTION LIMIT *PAL = Italics*			*1.5*	*0.5*	*140*	*12*	*10*	*160*	*96*	*400*

(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)
Maron Property BRRTS #03-14-563925

Well MW-1

Date	Ace-naphthene (ppb)	Acenaph-thylene (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)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
01/21/16	<2	<2.1	<2	<1.9	<1.9	<1.9	<2.4	<1.8	<1.7	<2.5	<1.8	<1.7	<1.8	65	121	**380**	2.1	<1.8
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

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

Well MW-2

Date	Ace-naphthene (ppb)	Acenaph-thylene (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)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
01/21/16	<0.02	<0.021	<0.02	<0.019	<0.019	<0.019	<0.024	<0.018	<0.017	<0.025	0.022	<0.017	<0.018	<0.018	<0.017	<0.018	<0.017	0.020
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

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

Well MW-3

Date	Ace-naphthene (ppb)	Acenaph-thylene (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)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
01/21/16	<0.02	<0.021	<0.02	0.028	<0.019	<0.019	<0.024	<0.018	*0.022*	<0.025	0.029	<0.017	<0.018	0.021	0.025	0.024	0.021	0.027
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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)
Maron Property BRRTS #03-14-563925

Well MW-4

Date	Ace-naphthene (ppb)	Acenaph-thylene (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)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
01/21/16	<0.02	<0.021	0.042	0.126	*0.093*	*0.15*	0.095	0.084	*0.138*	0.043	0.14	<0.017	0.076	0.026	0.018	0.039	0.048	0.135
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

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

Well W9468 PW

Date	Ace-naphthene (ppb)	Acenaph-thylene (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)	Fluoran-thene (ppb)	Fluorene (ppb)	Indeno(1,2,3-cd) pyrene (ppb)	1-Methyl-naphthalene (ppb)	2-Methyl-naphthalene (ppb)	Naph-thalene (ppb)	Phenan-threne (ppb)	Pyrene (ppb)
01/21/16	NOT SAMPLED																	
ENFORCE MENT STANDARD = **ES – Bold**			**3000**	-	**0.2**	**0.2**	-	-	**0.2**	-	**400**	**400**	-	-	-	**100**	-	**250**
PREVENTIVE ACTION LIMIT = *PAL - Italics*			*600*	-	*0.02*	*0.02*	-	-	*0.02*	-	*80*	*80*	-	-	-	*10*	-	*50*

(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
Maron Property BRRTS #03-14-563925

Well Sampling Conducted on:	01/21/16	01/21/16	01/21/16	01/21/16		
VOC's Well Name	MW-1	MW-2	MW-3	MW-4	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Benzene/ppb	< 44	< 0.44	< 0.44	< 0.44	**5**	*0.5*
Bromobenzene/ppb	< 48	< 0.48	< 0.48	< 0.48	==	==
Bromodichloromethane/ppb	< 46	< 0.46	< 0.46	< 0.46	**0.6**	*0.06*
Bromoform/ppb	< 46	< 0.46	< 0.46	< 0.46	**4.4**	*0.44*
tert-Butylbenzene/ppb	< 110	< 1.1	< 1.1	< 1.1	==	==
sec-Butylbenzene/ppb	< 120	< 1.2	< 1.2	< 1.2	==	==
n-Butylbenzene/ppb	< 100	< 1	< 1	< 1	==	==
Carbon Tetrachloride/ppb	< 51	< 0.51	< 0.51	< 0.51	**5**	*0.5*
Chlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	==	==
Chloroethane/ppb	< 65	< 0.65	< 0.65	< 0.65	**400**	*80*
Chloroform/ppb	< 43	< 0.43	< 0.43	< 0.43	**6**	*0.6*
Chloromethane/ppb	< 190	< 1.9	< 1.9	< 1.9	**30**	*3*
2-Chlorotoluene/ppb	< 40	< 0.4	< 0.4	< 0.4	==	==
4-Chlorotoluene/ppb	< 63	< 0.63	< 0.63	< 0.63	==	==
1,2-Dibromo-3-chloropropane/ppb	< 140	< 1.4	< 1.4	< 1.4	**0.2**	*0.02*
Dibromochloromethane/ppb	< 45	< 0.45	< 0.45	< 0.45	**60**	*6*
1,4-Dichlorobenzene/ppb	< 49	< 0.49	< 0.49	< 0.49	**75**	*15*
1,3-Dichlorobenzene/ppb	< 52	< 0.52	< 0.52	< 0.52	**600**	*120*
1,2-Dichlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	**600**	*60*
Dichlorodifluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	**1000**	*200*
1,2-Dichloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
1,1-Dichloroethane/ppb	< 110	< 1.1	< 1.1	< 1.1	**850**	*85*
1,1-Dichloroethene/ppb	< 65	< 0.65	< 0.65	< 0.65	**7**	*0.7*
cis-1,2-Dichloroethene/ppb	< 45	< 0.45	< 0.45	< 0.45	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 54	< 0.54	< 0.54	< 0.54	**100**	*20*
1,2-Dichloropropane/ppb	< 43	< 0.43	< 0.43	< 0.43	**5**	*0.5*
2,2-Dichloropropane/ppb	< 310	< 3.1	< 3.1	< 3.1	==	==
1,3-Dichloropropane/ppb	< 42	< 0.42	< 0.42	< 0.42	==	==
Di-isopropyl ether/ppb	< 44	< 0.44	< 0.44	< 0.44	==	==
EDB (1,2-Dibromoethane)/ppb	< 63	< 0.63	< 0.63	< 0.63	**0.05**	*0.005*
Ethylbenzene/ppb	**1920**	< 0.71	< 0.71	< 0.71	**700**	*140*
Hexachlorobutadiene/ppb	< 220	< 2.2	< 2.2	< 2.2	==	==
Isopropylbenzene/ppb	130 "J"	< 0.82	< 0.82	< 0.82	==	==
p-Isopropyltoluene/ppb	< 110	< 1.1	< 1.1	< 1.1	==	==
Methylene chloride/ppb	< 130	< 1.3	< 1.3	< 1.3	**5**	*0.5*
Methyl tert-butyl ether (MTBE)/ppb	< 110	< 1.1	< 1.1	< 1.1	**60**	*12*
Naphthalene/ppb	**550**	< 1.6	< 1.6	< 1.6	**100**	*10*
n-Propylbenzene/ppb	**460**	< 0.77	< 0.77	< 0.77	==	==
1,1,2,2-Tetrachloroethane/ppb	< 52	< 0.52	< 0.52	< 0.52	**0.2**	*0.02*
1,1,1,2-Tetrachloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 49	< 0.49	< 0.49	< 0.49	**5**	*0.5*
Toluene/ppb	**830**	< 0.44	< 0.44	< 0.44	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 170	< 1.7	< 1.7	< 1.7	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 270	< 2.7	< 2.7	< 2.7	==	==
1,1,1-Trichloroethane/ppb	< 84	< 0.84	< 0.84	< 0.84	**200**	*40*
1,1,2-Trichloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 47	< 0.47	< 0.47	< 0.47	**5**	*0.5*
Trichlorofluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	==	==
1,2,4-Trimethylbenzene/ppb	**3500**	< 1.6	< 1.6	< 1.6		
1,3,5-Trimethylbenzene/ppb	**1060**	< 1.5	< 1.5	< 1.5	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 17	< 0.17	< 0.17	< 0.17	**0.2**	*0.02*
m&p-Xylene/ppb	**7600**	< 2.2	< 2.2	< 2.2		
o-Xylene/ppb	**2390**	< 0.9	< 0.9	< 0.9	**Total Xylenes 2000**	*Total Xylenes 400*

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
(ppb) = parts per billion
(ppm) = parts per million
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table
Maron Property BRRTS #03-14-563925

Well Sampling Conducted on:

Well Sampling Conducted on January 21, 2016

VOC's

Well Name	W9468 PW	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Benzene/ppb	< 0.43	**5**	*0.5*
Bromobenzene/ppb	< 0.48	==	==
Bromodichloromethane/ppb	< 0.48	==	==
Bromoform/ppb	< 0.9	==	==
Bromomethane/ppb	< 2.6	==	==
Carbon Tetrachloride/ppb	< 0.51	==	==
Chlorobenzene/ppb	< 0.45	==	==
Chloroethane/ppb	< 0.46	==	==
Chloroform/ppb	< 0.44	==	==
Chloromethane/ppb	< 0.79	==	==
2-Chlorotoluene/ppb	< 0.39	==	==
4-Chlorotoluene/ppb	< 0.46	==	==
Dibromochloromethane/ppb	< 0.6	==	==
Dibromomethane/ppb	< 0.56	==	==
1,4-Dichlorobenzene/ppb	< 0.48	==	==
1,3-Dichlorobenzene/ppb	< 0.54	==	==
1,2-Dichlorobenzene/ppb	< 0.46	==	==
Dichlorodifluoromethane/ppb	< 0.91	==	==
1,2-Dichloroethane/ppb	< 0.48	**5**	*0.5*
1,1-Dichloroethane/ppb	< 0.98	**850**	*85*
1,1-Dichloroethene/ppb	< 0.52	==	==
cis-1,2-Dichloroethene/ppb	< 0.46	==	==
trans-1,2-Dichloroethene/ppb	< 0.49	**70**	*7*
1,2-Dichloropropane/ppb	< 0.5	==	==
2,2-Dichloropropane/ppb	< 2.1	==	==
1,3-Dichloropropane/ppb	< 0.42	==	==
trans-1,3-Dichloropropene/ppb	< 0.51	==	==
cis-1,3-Dichloropropene/ppb	< 0.44	==	==
1,1-Dichloropropene/ppb	< 0.58	==	==
Ethylbenzene/ppb	< 0.39	**700**	*140*
Hexachlorobutadiene/ppb	< 0.92	==	==
Isopropylbenzene/ppb	< 0.44	==	==
p-Isopropyltoluene/ppb	< 0.49	==	==
Methylene chloride/ppb	< 0.45	==	==
Methyl tert-butyl ether (MTBE)/ppb	< 1	**60**	*12*
Naphthalene/ppb	< 0.67	**100**	*10*
Styrene/ppb	< 0.4	==	==
1,1,2,2-Tetrachloroethane/ppb	< 0.53	==	==
1,1,1,2-Tetrachloroethane/ppb	< 0.52	==	==
Tetrachloroethene(PCE)/ppb	< 0.49	**5**	*0.5*
Toluene/ppb	< 0.45	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 0.55	==	==
1,1,1-Trichloroethane/ppb	< 0.35	==	==
1,1,2-Trichloroethane/ppb	< 0.55	==	==
Trichloroethene (TCE)/ppb	< 0.48	**5**	*0.5*
Trichlorofluoromethane/ppb	< 0.91	==	==
1,2,3-Trichloropropane/ppb	< 0.99	==	==
Trichlorotrifluoroethane/ppb	< 0.86		
1,2,4-Trimethylbenzene/ppb	< 0.52		
1,3,5-Trimethylbenzene/ppb	< 0.47	**Total TMB's 480**	*Total TMB's 96*
Vinyl Chloride/ppb	< 0.2	==	==
m&p-Xylene/ppb	< 0.85		
o-Xylene/ppb	< 0.55	**Total Xylenes 2000**	*Total Xylenes 400*

Note: Bold type indicates an ES exceedance, *italics* indicates a PAL exceedance. NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

A.1 Groundwater Analytical Table
Maron Property BRRTS #03-14-563925

Well Sampling Conducted on May 7, 2015

VOC's Well Name	GP-1-W	GP-2-W	GP-3-W	GP-4-W	GP-5-W	GP-6-W	GP-7-W	GP-8-W	ENFORCE MENT STANDARD = ES – Bold	*PREVENTIVE ACTION LIMIT = PAL - Italics*
Benzene/ppb	< 44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	**5**	*0.5*
Bromobenzene/ppb	< 48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	==	==
Bromodichloromethane/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**0.6**	*0.06*
Bromoform/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**4.4**	*0.44*
tert-Butylbenzene/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	==	==
sec-Butylbenzene/ppb	124 "J"	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	< 1.2	==	==
n-Butylbenzene/ppb	660	< 1	< 1	< 1	< 1	< 1	< 1	< 1	==	==
Carbon Tetrachloride/ppb	< 65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**5**	*0.5*
Chlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	==	==
Chloroethane/ppb	< 65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**400**	*80*
Chloroform/ppb	< 43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	**6**	*0.6*
Chloromethane/ppb	< 190	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	< 1.9	**30**	*3*
2-Chlorotoluene/ppb	< 40	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	< 0.4	==	==
4-Chlorotoluene/ppb	< 63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	==	==
1,2-Dibromo-3-chloropropane/ppb	< 140	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	< 1.4	**0.2**	*0.02*
Dibromochloromethane/ppb	< 45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**60**	*6*
1,4-Dichlorobenzene/ppb	< 49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	< 0.49	**75**	*15*
1,3-Dichlorobenzene/ppb	< 52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	**600**	*120*
1,2-Dichlorobenzene/ppb	< 46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	< 0.46	**600**	*60*
Dichlorodifluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	**1000**	*200*
1,2-Dichloroethane/ppb	< 54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	**5**	*0.5*
1,1-Dichloroethane/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**850**	*85*
1,1-Dichloroethene/ppb	< 65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	< 0.65	**7**	*0.7*
cis-1,2-Dichloroethene/ppb	< 45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	< 0.45	**70**	*7*
trans-1,2-Dichloroethene/ppb	< 54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	< 0.54	**100**	*20*
1,2-Dichloropropane/ppb	< 43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	< 0.43	**5**	*0.5*
2,2-Dichloropropane/ppb	< 310	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	< 3.1	==	==
1,3-Dichloropropane/ppb	< 42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	< 0.42	==	==
Di-isopropyl ether/ppb	< 44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	< 0.44	==	==
EDB (1,2-Dibromoethane)/ppb	< 63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	< 0.63	**0.05**	*0.005*
Ethylbenzene/ppb	**5500**	< 0.71	2.78	< 0.71	< 0.71	< 0.71	< 0.71	< 0.71	**700**	*140*
Hexachlorobutadiene/ppb	< 220	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2	==	==
Isopropylbenzene/ppb	590	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	< 0.82	==	==
p-Isopropyltoluene/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	==	==
Methylene chloride/ppb	< 130	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	< 1.3	**5**	*0.5*
Methyl tert-butyl ether (MTBE)/ppb	< 110	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	< 1.1	**60**	*12*
Naphthalene/ppb	**1240**	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6	**100**	*10*
n-Propylbenzene/ppb	2690	< 0.77	1.4 "J"	< 0.77	< 0.77	< 0.77	< 0.77	< 0.77	==	==
1,1,2,2-Tetrachloroethane/ppb	< 52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	< 0.52	**0.2**	*0.02*
1,1,1,2-Tetrachloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**70**	*7*
Tetrachloroethene (PCE)/ppb	< 74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	< 0.74	**5**	*0.5*
Toluene/ppb	**1120**	0.61 "J"	1.39 "J"	< 0.44	0.48 "J"	< 0.44	< 0.44	0.6 "J"	**800**	*160*
1,2,4-Trichlorobenzene/ppb	< 170	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	< 1.7	**70**	*14*
1,2,3-Trichlorobenzene/ppb	< 270	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	< 2.7	==	==
1,1,1-Trichloroethane/ppb	< 84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	< 0.84	**200**	*40*
1,1,2-Trichloroethane/ppb	< 48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	< 0.48	**5**	*0.5*
Trichloroethene (TCE)/ppb	< 47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	< 0.47	**5**	*0.5*
Trichlorofluoromethane/ppb	< 87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	< 0.87	==	==
1,2,4-Trimethylbenzene/ppb	**16500**	< 1.6	11.7	< 1.6	< 1.6	< 1.6	< 1.6	< 1.6		
1,3,5-Trimethylbenzene/ppb	**5100**	< 1.5	3.8 "J"	< 1.5	< 1.5	< 1.5	< 1.5	< 1.5	Total TMB's 480	*Total TMB's 96*
Vinyl Chloride/ppb	< 17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	< 0.17	0.2	*0.02*
m&p-Xylene/ppb	**19500**	< 2.2	12	< 2.2	< 2.2	< 2.2	< 2.2	< 2.2		
o-Xylene/ppb	**3900**	< 0.9	3.7	< 0.9	< 0.9	< 0.9	< 0.9	< 0.9	Total Xylenes 2000	*Total Xylenes 400*
Nitrite Plus Nitrate, Dissolved/ppm									10	*2*
Sulfate, Dissolved/ppm										
Iron, Dissolved/ppb										
Manganese, Dissolved/ppb									300	*60*

NS = not sampled, NM = Not Measured
Q = Analyte detected above laboratory method detection limit but below practical quantitation limit.
= = No Exceedences
(ppb) = parts per billion (ppm) = parts per million

A.6 Water Level Elevations
Maron Property BRRTS #03-14-563925
Beaver Dam, Wisconsin

	MW-1	MW-2	MW-3	MW-4
Ground Surface (feet msl)	882.00	881.77	880.02	879.64
PVC top (feet msl)	884.27	881.44	879.52	879.08
Well Depth (feet)	13.00	14.00	13.00	13.00
Top of screen (feet msl)	879.00	877.77	877.02	876.64
Bottom of screen (feet msl)	869.00	867.77	867.02	866.64
Depth to Water From Top of PVC (feet)				
01/21/16	7.80	3.84	3.43	3.02
04/18/16	6.57	2.75	2.24	2.08
Depth to Water From Ground Surface (feet)				
01/21/16	5.53	4.17	3.93	3.58
04/18/16	4.30	3.08	2.74	2.64
Groundwater Elevation (feet msl)				
01/21/16	876.47	877.60	876.09	876.06
04/18/16	877.70	878.69	877.28	877.00

CNL = Could Not Locate
A = Abandoned and removed during soil excavation project
NI = Not Installed

A.7 Other
Groundwater NA Indicator Results
Maron Property BRRTS #03-14-563925

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)
01/21/16	2.26	7.13	155	6.7	769	<0.13	18.9	0.60	*70.0*
04/18/16	2.57	7.24	128	10.0	510	NS	NS	NS	NS
ENFORCE MENT 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).

Well MW-2

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
01/21/16	2.23	7.04	224	6.1	1351	0.434	158	0.04	*79.6*
04/18/16	2.81	7.03	109	10.3	814	NS	NS	NS	NS
ENFORCE MENT 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).

Well MW-3

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
01/21/16	2.88	7.05	224	5.4	883	1.19	30.8	0.03	32.5
04/18/16	3.56	6.97	203	10.0	618	NS	NS	NS	NS
ENFORCE MENT 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).

Well MW-4

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Man-ganese (ppb)
01/21/16	5.11	7.52	227	3.2	486	0.318	31.2	0.07	29.3
04/18/16	3.07	7.11	211	10.1	305	NS	NS	NS	NS
ENFORCE MENT 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).

8.0 PHOTOS

Photos

Photo #1: Looking northwest at area of former UST (Photo from Google Earth).

Photo #2: Looking northwest (Photo from Google Earth).

Photo #3: Looking northeast (Photo from Google Earth).

Photo #4: Looking north-northwest at area of former diesel UST.

APPENDIX A/ METHODS OF INVESTIGATION

Drilling Project

Soil borings were conducted by Ground Source Inc. of De Pere, 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 6.25-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. Air rotary methods were used to drill through bedrock using a 6-inch tri-cone bit.

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.

Field Screening

Selected soil samples were scanned with a Model DL102 HNU Photo-ionization Meter 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 HNU probe was inserted through the Ziploc seal and the highest meter response recorded.

Throughout the field projects the HNU 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

Monitoring well installation was completed by Ground Source, Inc. under the supervision of METCO personnel and done in accordance with Wisconsin Department of Natural Resources Chapter NR141, "Groundwater Monitoring Well Requirements." The monitoring wells were constructed of flush threaded, 2-inch inside-diameter schedule 40 polyvinyl chloride (PVC) piping. Ten-foot well screens with 0.010-inch slots were installed partially into the groundwater, 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. Monitoring Well Construction Forms and a Groundwater Monitoring Well Information Form are presented in Appendix C.

The wells were surveyed by Fauerbach Surveying & Engineering of Hillsboro, Wisconsin. Measurements were recorded in feet mean sea level.

Each well was alternately surged and purged by METCO personnel with a bottom loading, disposable, polyethylene bailer for 15-20 minutes to remove fines from the well screen. Approximately 27-75 gallons of groundwater was then removed with a small electrical submersible pump. Well Development Forms are presented in Appendix C.

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

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 April 28, 2016, DKS Transport Services, LLC, of Menomonie, Wisconsin picked-up and disposed of five drums of soil cuttings and one drum of purge water at the Advanced Disposal Seven Mile Creek Landfill in Eau Claire, Wisconsin.

APPENDIX B/ ANALYTICAL METHODS & LABORATORY DATA REPORTS

Synergy Environmental Lab,

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

RON ANDERSON
METCO
709 GILLETTE ST
LA CROSSE, WI 54603-2382

Report Date *19-May-15*

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #
Lab Code 5028897A
Sample ID GP-1-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.1	%			1	5021		5/11/2015	MDK	I
Organic										
VOC's										
Benzene	< 0.32	mg/kg	0.32	0.98	20	8260B		5/18/2015	CJR	I
Bromobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		5/18/2015	CJR	I
Bromodichloromethane	< 0.3	mg/kg	0.3	0.96	20	8260B		5/18/2015	CJR	I
Bromoform	< 0.46	mg/kg	0.46	1.46	20	8260B		5/18/2015	CJR	I
tert-Butylbenzene	< 0.7	mg/kg	0.7	2.2	20	8260B		5/18/2015	CJR	I
sec-Butylbenzene	1.86 "J"	mg/kg	0.72	2.2	20	8260B		5/18/2015	CJR	I
n-Butylbenzene	8.3	mg/kg	1.72	5.4	20	8260B		5/18/2015	CJR	I
Carbon Tetrachloride	< 0.42	mg/kg	0.42	1.34	20	8260B		5/18/2015	CJR	I
Chlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		5/18/2015	CJR	I
Chloroethane	< 0.9	mg/kg	0.9	2.8	20	8260B		5/18/2015	CJR	I
Chloroform	< 0.52	mg/kg	0.52	1.62	20	8260B		5/18/2015	CJR	I
Chloromethane	< 5	mg/kg	5	15.6	20	8260B		5/18/2015	CJR	I
2-Chlorotoluene	< 0.58	mg/kg	0.58	1.86	20	8260B		5/18/2015	CJR	I
4-Chlorotoluene	< 0.64	mg/kg	0.64	2	20	8260B		5/18/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.56	mg/kg	1.56	5	20	8260B		5/18/2015	CJR	I
Dibromochloromethane	< 0.62	mg/kg	0.62	1.96	20	8260B		5/18/2015	CJR	I
1,4-Dichlorobenzene	< 0.6	mg/kg	0.6	1.92	20	8260B		5/18/2015	CJR	I
1,3-Dichlorobenzene	< 0.6	mg/kg	0.6	1.94	20	8260B		5/18/2015	CJR	I
1,2-Dichlorobenzene	< 0.78	mg/kg	0.78	2.4	20	8260B		5/18/2015	CJR	I
Dichlorodifluoromethane	< 0.86	mg/kg	0.86	2.8	20	8260B		5/18/2015	CJR	I
1,2-Dichloroethane	< 0.6	mg/kg	0.6	1.92	20	8260B		5/18/2015	CJR	I
1,1-Dichloroethane	< 0.5	mg/kg	0.5	1.58	20	8260B		5/18/2015	CJR	I
1,1-Dichloroethene	< 0.58	mg/kg	0.58	1.86	20	8260B		5/18/2015	CJR	7
cis-1,2-Dichloroethene	< 0.42	mg/kg	0.42	1.36	20	8260B		5/18/2015	CJR	I
trans-1,2-Dichloroethene	< 0.48	mg/kg	0.48	1.52	20	8260B		5/18/2015	CJR	7
1,2-Dichloropropane	< 0.5	mg/kg	0.5	1.56	20	8260B		5/18/2015	CJR	I
2,2-Dichloropropane	< 2	mg/kg	2	6.6	20	8260B		5/18/2015	CJR	2 8
1,3-Dichloropropane	< 0.62	mg/kg	0.62	1.94	20	8260B		5/18/2015	CJR	I
Di-isopropyl ether	< 0.24	mg/kg	0.24	0.8	20	8260B		5/18/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897A
Sample ID GP-1-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
EDB (1,2-Dibromoethane)	< 0.7	mg/kg	0.7	2.2	20	8260B		5/18/2015	CJR	I
Ethylbenzene	42	mg/kg	0.54	1.72	20	8260B		5/18/2015	CJR	I
Hexachlorobutadiene	< 2.2	mg/kg	2.2	7.2	20	8260B		5/18/2015	CJR	I
Isopropylbenzene	5.4	mg/kg	0.74	2.4	20	8260B		5/18/2015	CJR	I
p-Isopropyltoluene	< 1.12	mg/kg	1.12	3.6	20	8260B		5/18/2015	CJR	I
Methylene chloride	< 4.4	mg/kg	4.4	14	20	8260B		5/18/2015	CJR	7
Methyl tert-butyl ether (MTBE)	< 0.5	mg/kg	0.5	1.56	20	8260B		5/18/2015	CJR	I
Naphthalene	11.2	mg/kg	1.74	5.6	20	8260B		5/18/2015	CJR	I
n-Propylbenzene	24.4	mg/kg	0.7	2.2	20	8260B		5/18/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.26	mg/kg	0.26	0.8	20	8260B		5/18/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.58	mg/kg	0.58	1.86	20	8260B		5/18/2015	CJR	I
Tetrachloroethene	< 1.08	mg/kg	1.08	3.4	20	8260B		5/18/2015	CJR	I
Toluene	16.5	mg/kg	0.62	1.98	20	8260B		5/18/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	mg/kg	1.7	5.4	20	8260B		5/18/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.4	mg/kg	2.4	7.6	20	8260B		5/18/2015	CJR	I
1,1,1-Trichloroethane	< 0.8	mg/kg	0.8	2.6	20	8260B		5/18/2015	CJR	I
1,1,2-Trichloroethane	< 0.66	mg/kg	0.66	2.2	20	8260B		5/18/2015	CJR	I
Trichloroethene (TCE)	< 0.84	mg/kg	0.84	2.6	20	8260B		5/18/2015	CJR	I
Trichlorofluoromethane	< 1.2	mg/kg	1.2	3.8	20	8260B		5/18/2015	CJR	I
1,2,4-Trimethylbenzene	147	mg/kg	1.56	5	20	8260B		5/18/2015	CJR	I
1,3,5-Trimethylbenzene	50	mg/kg	1.78	5.6	20	8260B		5/18/2015	CJR	I
Vinyl Chloride	< 0.2	mg/kg	0.2	0.62	20	8260B		5/18/2015	CJR	I
m&p-Xylene	183	mg/kg	1.4	4.4	20	8260B		5/18/2015	CJR	I
o-Xylene	63	mg/kg	0.58	1.84	20	8260B		5/18/2015	CJR	I
SUR - Toluene-d8	103	Rec %			20	8260B		5/18/2015	CJR	I
SUR - Dibromofluoromethane	96	Rec %			20	8260B		5/18/2015	CJR	I
SUR - 4-Bromofluorobenzene	118	Rec %			20	8260B		5/18/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	110	Rec %			20	8260B		5/18/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897

Project #

Lab Code 5028897B
Sample ID GP-1-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 44	ug/l	44	140	100	8260B		5/16/2015	CJR	1
Bromobenzene	< 48	ug/l	48	150	100	8260B		5/16/2015	CJR	1
Bromodichloromethane	< 46	ug/l	46	150	100	8260B		5/16/2015	CJR	1
Bromoform	< 46	ug/l	46	150	100	8260B		5/16/2015	CJR	1
tert-Butylbenzene	< 110	ug/l	110	340	100	8260B		5/16/2015	CJR	1
sec-Butylbenzene	124 "J"	ug/l	120	380	100	8260B		5/16/2015	CJR	1
n-Butylbenzene	660	ug/l	100	330	100	8260B		5/16/2015	CJR	1
Carbon Tetrachloride	< 65	ug/l	65	210	100	8260B		5/16/2015	CJR	1
Chlorobenzene	< 46	ug/l	46	140	100	8260B		5/16/2015	CJR	1
Chloroethane	< 65	ug/l	65	210	100	8260B		5/16/2015	CJR	1
Chloroform	< 43	ug/l	43	140	100	8260B		5/16/2015	CJR	1
Chloromethane	< 190	ug/l	190	600	100	8260B		5/16/2015	CJR	1
2-Chlorotoluene	< 40	ug/l	40	130	100	8260B		5/16/2015	CJR	3
4-Chlorotoluene	< 63	ug/l	63	200	100	8260B		5/16/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	450	100	8260B		5/16/2015	CJR	1
Dibromochloromethane	< 45	ug/l	45	140	100	8260B		5/16/2015	CJR	1
1,4-Dichlorobenzene	< 49	ug/l	49	160	100	8260B		5/16/2015	CJR	1
1,3-Dichlorobenzene	< 52	ug/l	52	160	100	8260B		5/16/2015	CJR	1
1,2-Dichlorobenzene	< 46	ug/l	46	150	100	8260B		5/16/2015	CJR	1
Dichlorodifluoromethane	< 87	ug/l	87	280	100	8260B		5/16/2015	CJR	1
1,2-Dichloroethane	< 54	ug/l	54	170	100	8260B		5/16/2015	CJR	1
1,1-Dichloroethane	< 110	ug/l	110	360	100	8260B		5/16/2015	CJR	1
1,1-Dichloroethene	< 65	ug/l	65	210	100	8260B		5/16/2015	CJR	1
cis-1,2-Dichloroethene	< 45	ug/l	45	140	100	8260B		5/16/2015	CJR	1
trans-1,2-Dichloroethene	< 54	ug/l	54	170	100	8260B		5/16/2015	CJR	1
1,2-Dichloropropane	< 43	ug/l	43	137	100	8260B		5/16/2015	CJR	1
2,2-Dichloropropane	< 310	ug/l	310	980	100	8260B		5/16/2015	CJR	1
1,3-Dichloropropane	< 42	ug/l	42	130	100	8260B		5/16/2015	CJR	1
Di-isopropyl ether	< 44	ug/l	44	140	100	8260B		5/16/2015	CJR	1
EDB (1,2-Dibromoethane)	< 63	ug/l	63	200	100	8260B		5/16/2015	CJR	1
Ethylbenzene	5500	ug/l	71	230	100	8260B		5/16/2015	CJR	3
Hexachlorobutadiene	< 220	ug/l	220	710	100	8260B		5/16/2015	CJR	1
Isopropylbenzene	590	ug/l	82	260	100	8260B		5/16/2015	CJR	1
p-Isopropyltoluene	< 110	ug/l	110	350	100	8260B		5/16/2015	CJR	1
Methylene chloride	< 130	ug/l	130	420	100	8260B		5/16/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 110	ug/l	110	370	100	8260B		5/16/2015	CJR	1
Naphthalene	1240	ug/l	160	520	100	8260B		5/16/2015	CJR	1
n-Propylbenzene	2690	ug/l	77	240	100	8260B		5/16/2015	CJR	3
1,1,2,2-Tetrachloroethane	< 52	ug/l	52	170	100	8260B		5/16/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 48	ug/l	48	150	100	8260B		5/16/2015	CJR	1
Tetrachloroethene	< 74	ug/l	74	240	100	8260B		5/16/2015	CJR	1
Toluene	1120	ug/l	44	140	100	8260B		5/16/2015	CJR	1
1,2,4-Trichlorobenzene	< 170	ug/l	170	560	100	8260B		5/16/2015	CJR	1
1,2,3-Trichlorobenzene	< 270	ug/l	270	860	100	8260B		5/16/2015	CJR	1
1,1,1-Trichloroethane	< 84	ug/l	84	270	100	8260B		5/16/2015	CJR	1
1,1,2-Trichloroethane	< 48	ug/l	48	152	100	8260B		5/16/2015	CJR	1
Trichloroethene (TCE)	< 47	ug/l	47	150	100	8260B		5/16/2015	CJR	1
Trichlorofluoromethane	< 87	ug/l	87	280	100	8260B		5/16/2015	CJR	1
1,2,4-Trimethylbenzene	16500	ug/l	160	500	100	8260B		5/16/2015	CJR	3
1,3,5-Trimethylbenzene	5100	ug/l	150	480	100	8260B		5/16/2015	CJR	1
Vinyl Chloride	< 17	ug/l	17	54	100	8260B		5/16/2015	CJR	1
m&p-Xylene	19500	ug/l	220	690	100	8260B		5/16/2015	CJR	3
o-Xylene	3900	ug/l	90	290	100	8260B		5/16/2015	CJR	3
SUR - Toluene-d8	100	REC %			100	8260B		5/16/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	101	REC %			100	8260B		5/16/2015	CJR	1
SUR - 4-Bromofluorobenzene	107	REC %			100	8260B		5/16/2015	CJR	1
SUR - Dibromofluoromethane	97	REC %			100	8260B		5/16/2015	CJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897C
Sample ID GP-2-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	87.7	%			1	5021		5/11/2015	MDK	I
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/18/2015	CJR	I
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	I
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/18/2015	CJR	I
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/18/2015	CJR	I
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	I
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/18/2015	CJR	I
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/18/2015	CJR	I
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/18/2015	CJR	I
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	I
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/18/2015	CJR	I
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/18/2015	CJR	I
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/18/2015	CJR	I
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	I
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/18/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/18/2015	CJR	I
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/18/2015	CJR	I
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/18/2015	CJR	I
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/18/2015	CJR	I
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	I
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/18/2015	CJR	I
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/18/2015	CJR	I
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/18/2015	CJR	I
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	7
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/18/2015	CJR	I
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/18/2015	CJR	7
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/18/2015	CJR	I
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/18/2015	CJR	2 8
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/18/2015	CJR	I
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/18/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	I
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/18/2015	CJR	I
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/18/2015	CJR	I
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/18/2015	CJR	I
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/18/2015	CJR	I
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/18/2015	CJR	7
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/18/2015	CJR	I
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/18/2015	CJR	I
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/18/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	I
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		5/18/2015	CJR	I
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/18/2015	CJR	I
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/18/2015	CJR	I
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/18/2015	CJR	I
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/18/2015	CJR	I
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/18/2015	CJR	I
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/18/2015	CJR	I
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/18/2015	CJR	I
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/18/2015	CJR	I
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/18/2015	CJR	I
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/18/2015	CJR	I
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/18/2015	CJR	I
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/18/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897C
Sample ID GP-2-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	84	Rec %			1	8260B		5/18/2015	CJR	1
SUR - Toluene-d8	99	Rec %			1	8260B		5/18/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	97	Rec %			1	8260B		5/18/2015	CJR	1
SUR - 4-Bromofluorobenzene	111	Rec %			1	8260B		5/18/2015	CJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897D
Sample ID GP-2-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/15/2015	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/15/2015	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/15/2015	CJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/15/2015	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/15/2015	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/15/2015	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/15/2015	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/15/2015	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/15/2015	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/15/2015	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/15/2015	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/15/2015	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/15/2015	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/15/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/15/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/15/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/15/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/15/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/15/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/15/2015	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/15/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/15/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		5/15/2015	CJR	I
Toluene	0.61 "J"	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/15/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/15/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/15/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/15/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/15/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/15/2015	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/15/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/15/2015	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/15/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/15/2015	CJR	I
SUR - Toluene-d8	99	REC %			1	8260B		5/15/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	104	REC %			1	8260B		5/15/2015	CJR	I
SUR - 4-Bromofluorobenzene	114	REC %			1	8260B		5/15/2015	CJR	I
SUR - Dibromofluoromethane	100	REC %			1	8260B		5/15/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897E
Sample ID GP-3-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.3	%			1	5021		5/11/2015	MDK	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B		5/18/2015	CJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B		5/18/2015	CJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B		5/18/2015	CJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B		5/18/2015	CJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B		5/18/2015	CJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B		5/18/2015	CJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B		5/18/2015	CJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B		5/18/2015	CJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B		5/18/2015	CJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B		5/18/2015	CJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B		5/18/2015	CJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B		5/18/2015	CJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B		5/18/2015	CJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B		5/18/2015	CJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B		5/18/2015	CJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B		5/18/2015	CJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B		5/18/2015	CJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B		5/18/2015	CJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	7
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B		5/18/2015	CJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B		5/18/2015	CJR	7
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B		5/18/2015	CJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B		5/18/2015	CJR	2,8
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B		5/18/2015	CJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B		5/18/2015	CJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B		5/18/2015	CJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B		5/18/2015	CJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B		5/18/2015	CJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B		5/18/2015	CJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B		5/18/2015	CJR	7
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B		5/18/2015	CJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B		5/18/2015	CJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B		5/18/2015	CJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B		5/18/2015	CJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B		5/18/2015	CJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B		5/18/2015	CJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B		5/18/2015	CJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B		5/18/2015	CJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B		5/18/2015	CJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B		5/18/2015	CJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B		5/18/2015	CJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B		5/18/2015	CJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B		5/18/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B		5/18/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B		5/18/2015	CJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B		5/18/2015	CJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B		5/18/2015	CJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B		5/18/2015	CJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897E
Sample ID GP-3-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	101	Rec %			1	8260B		5/18/2015	CJR	1
SUR - Dibromofluoromethane	92	Rec %			1	8260B		5/18/2015	CJR	1
SUR - 4-Bromofluorobenzene	117	Rec %			1	8260B		5/18/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B		5/18/2015	CJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897F
Sample ID GP-3-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/15/2015	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/15/2015	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/15/2015	CJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/15/2015	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/15/2015	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/15/2015	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/15/2015	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/15/2015	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/15/2015	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/15/2015	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/15/2015	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/15/2015	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/15/2015	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
Ethylbenzene	2.78	ug/l	0.71	2.3	1	8260B		5/15/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/15/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/15/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/15/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/15/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/15/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/15/2015	CJR	I
n-Propylbenzene	1.4 "J"	ug/l	0.77	2.4	1	8260B		5/15/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/15/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		5/15/2015	CJR	I
Toluene	1.39 "J"	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/15/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/15/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/15/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/15/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/15/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2,4-Trimethylbenzene	11.7	ug/l	1.6	5	1	8260B		5/15/2015	CJR	I
1,3,5-Trimethylbenzene	3.8 "J"	ug/l	1.5	4.8	1	8260B		5/15/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/15/2015	CJR	I
m&p-Xylene	12	ug/l	2.2	6.9	1	8260B		5/15/2015	CJR	I
o-Xylene	3.7	ug/l	0.9	2.9	1	8260B		5/15/2015	CJR	I
SUR - Toluene-d8	100	REC %			1	8260B		5/15/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	109	REC %			1	8260B		5/15/2015	CJR	I
SUR - 4-Bromofluorobenzene	117	REC %			1	8260B		5/15/2015	CJR	I
SUR - Dibromofluoromethane	101	REC %			1	8260B		5/15/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897G
Sample ID GP-4-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	79.6	%			1	5021		5/11/2015	MDK	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/12/2015	5/12/2015	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/12/2015	5/12/2015	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/12/2015	5/12/2015	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/12/2015	5/12/2015	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/12/2015	5/12/2015	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/12/2015	5/12/2015	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/12/2015	5/12/2015	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/12/2015	5/12/2015	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/12/2015	5/12/2015	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/12/2015	5/12/2015	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/12/2015	5/12/2015	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/12/2015	5/12/2015	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897G
Sample ID GP-4-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	101	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - Toluene-d8	97	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 4-Bromofluorobenzene	103	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897H
Sample ID GP-4-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/15/2015	CJR	
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/15/2015	CJR	
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/15/2015	CJR	
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/15/2015	CJR	
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/15/2015	CJR	
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/15/2015	CJR	
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/15/2015	CJR	
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/15/2015	CJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/15/2015	CJR	
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/15/2015	CJR	
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/15/2015	CJR	
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/15/2015	CJR	
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/15/2015	CJR	
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/15/2015	CJR	
Di-isopropyl ether	0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	
Ethylbenzene	0.71	ug/l	0.71	2.3	1	8260B		5/15/2015	CJR	
Hexachlorobutadiene	2.2	ug/l	2.2	7.1	1	8260B		5/15/2015	CJR	
Isopropylbenzene	0.82	ug/l	0.82	2.6	1	8260B		5/15/2015	CJR	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/15/2015	CJR	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/15/2015	CJR	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/15/2015	CJR	
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/15/2015	CJR	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/15/2015	CJR	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/15/2015	CJR	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		5/15/2015	CJR	
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/15/2015	CJR	
1,2,3-Trichlorobenzene	2.7	ug/l	2.7	8.6	1	8260B		5/15/2015	CJR	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/15/2015	CJR	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/15/2015	CJR	
Trichloroethene (TCE)	0.47	ug/l	0.47	1.5	1	8260B		5/15/2015	CJR	
Trichlorofluoromethane	0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/15/2015	CJR	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/15/2015	CJR	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/15/2015	CJR	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/15/2015	CJR	
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/15/2015	CJR	
SUR - Dibromofluoromethane	104	REC %			1	8260B		5/15/2015	CJR	
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		5/15/2015	CJR	
SUR - 4-Bromofluorobenzene	116	REC %			1	8260B		5/15/2015	CJR	
SUR - Toluene-d8	98	REC %			1	8260B		5/15/2015	CJR	

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897

Project #

Lab Code 5028897I

Sample ID GP-5-S

Sample Matrix Soil

Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.2	%			1	5021		5/11/2015	MDK	I
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/12/2015	5/12/2015	MJR	I
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	I
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/12/2015	5/12/2015	MJR	I
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/12/2015	5/12/2015	MJR	I
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	I
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/12/2015	5/12/2015	MJR	I
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/12/2015	5/12/2015	MJR	I
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/12/2015	5/12/2015	MJR	I
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	I
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/12/2015	5/12/2015	MJR	I
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/12/2015	5/12/2015	MJR	I
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/12/2015	5/12/2015	MJR	I
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	I
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	I
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/12/2015	5/12/2015	MJR	I
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	I
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	I
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	I
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/12/2015	5/12/2015	MJR	I
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	I
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/12/2015	5/12/2015	MJR	I
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/12/2015	5/12/2015	MJR	I
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/12/2015	5/12/2015	MJR	I
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	I
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/12/2015	5/12/2015	MJR	I
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/12/2015	5/12/2015	MJR	I
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/12/2015	5/12/2015	MJR	I
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/12/2015	5/12/2015	MJR	I
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/12/2015	5/12/2015	MJR	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	I
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/12/2015	5/12/2015	MJR	I
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	I
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/12/2015	5/12/2015	MJR	I
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/12/2015	5/12/2015	MJR	I
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/12/2015	5/12/2015	MJR	I
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/12/2015	5/12/2015	MJR	I
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/12/2015	5/12/2015	MJR	I
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	I
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/12/2015	5/12/2015	MJR	I
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/12/2015	5/12/2015	MJR	I
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/12/2015	5/12/2015	MJR	I
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/12/2015	5/12/2015	MJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897I
Sample ID GP-5-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	99	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - Dibromofluoromethane	101	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 1,2-Dichloroethane-d4	103	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897J
Sample ID GP-5-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/15/2015	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/15/2015	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/15/2015	CJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/15/2015	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/15/2015	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/15/2015	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/15/2015	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/15/2015	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/15/2015	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/15/2015	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/15/2015	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/15/2015	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/15/2015	CJR	I
Di-isopropyl ether	0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
EDB (1,2-Dibromoethane)	0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
Ethylbenzene	0.71	ug/l	0.71	2.3	1	8260B		5/15/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/15/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/15/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/15/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/15/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/15/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/15/2015	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/15/2015	CJR	I
1,1,2,2-Tetrachloroethane	0.52	ug/l	0.52	1.7	1	8260B		5/15/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Tetrachloroethene	0.74	ug/l	0.74	2.4	1	8260B		5/15/2015	CJR	I
Toluene	0.48 "J"	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/15/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/15/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/15/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/15/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/15/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/15/2015	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/15/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/15/2015	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/15/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/15/2015	CJR	I
SUR - Toluene-d8	99	REC %			1	8260B		5/15/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	105	REC %			1	8260B		5/15/2015	CJR	I
SUR - 4-Bromofluorobenzene	109	REC %			1	8260B		5/15/2015	CJR	I
SUR - Dibromofluoromethane	93	REC %			1	8260B		5/15/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897K
Sample ID GP-6-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	81.4	%			1	5021		5/11/2015	MDK	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/12/2015	5/12/2015	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/12/2015	5/12/2015	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/12/2015	5/12/2015	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/12/2015	5/12/2015	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/12/2015	5/12/2015	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/12/2015	5/12/2015	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/12/2015	5/12/2015	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/12/2015	5/12/2015	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/12/2015	5/12/2015	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/12/2015	5/12/2015	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/12/2015	5/12/2015	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/12/2015	5/12/2015	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897K
Sample ID GP-6-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	100	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - Toluene-d8	100	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 1,2-Dichloroethane-d4	110	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 4-Bromofluorobenzene	108	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897L
Sample ID GP-6-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		5/15/2015	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		5/15/2015	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		5/15/2015	CJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		5/15/2015	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		5/15/2015	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		5/15/2015	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		5/15/2015	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		5/15/2015	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		5/15/2015	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		5/15/2015	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		5/15/2015	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		5/15/2015	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		5/15/2015	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		5/15/2015	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		5/15/2015	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		5/15/2015	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		5/15/2015	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		5/15/2015	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		5/15/2015	CJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		5/15/2015	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		5/15/2015	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		5/15/2015	CJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		5/15/2015	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		5/15/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		5/15/2015	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		5/15/2015	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		5/15/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		5/15/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		5/15/2015	CJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B		5/15/2015	CJR	I
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		5/15/2015	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		5/15/2015	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		5/15/2015	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		5/15/2015	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		5/15/2015	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		5/15/2015	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		5/15/2015	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		5/15/2015	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		5/15/2015	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		5/15/2015	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		5/15/2015	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		5/15/2015	CJR	I
SUR - Toluene-d8	99	REC %			1	8260B		5/15/2015	CJR	I
SUR - 1,2-Dichloroethane-d4	112	REC %			1	8260B		5/15/2015	CJR	I
SUR - 4-Bromofluorobenzene	113	REC %			1	8260B		5/15/2015	CJR	I
SUR - Dibromofluoromethane	102	REC %			1	8260B		5/15/2015	CJR	I

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897M
Sample ID GP-7-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.1	%			1	5021		5/11/2015	MDK	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/12/2015	5/12/2015	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/12/2015	5/12/2015	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/12/2015	5/12/2015	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/12/2015	5/12/2015	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/12/2015	5/12/2015	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/12/2015	5/12/2015	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/12/2015	5/12/2015	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/12/2015	5/12/2015	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/12/2015	5/12/2015	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/12/2015	5/12/2015	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/12/2015	5/12/2015	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/12/2015	5/12/2015	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897M
Sample ID GP-7-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	100	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - Dibromofluoromethane	104	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 4-Bromofluorobenzene	105	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1
SUR - 1,2-Dichloroethane-d4	110	Rec %			1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897N
Sample ID GP-7-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	5/13/2015	5/13/2015	MJR	
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	5/13/2015	5/13/2015	MJR	
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	5/13/2015	5/13/2015	MJR	
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	5/13/2015	5/13/2015	MJR	
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	5/13/2015	5/13/2015	MJR	
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	5/13/2015	5/13/2015	MJR	
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	5/13/2015	5/13/2015	MJR	
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	5/13/2015	5/13/2015	MJR	
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	5/13/2015	5/13/2015	MJR	
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	5/13/2015	5/13/2015	MJR	
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B	5/13/2015	5/13/2015	MJR	
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	5/13/2015	5/13/2015	MJR	
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	5/13/2015	5/13/2015	MJR	
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	5/13/2015	5/13/2015	MJR	
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	5/13/2015	5/13/2015	MJR	
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	5/13/2015	5/13/2015	MJR	
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	5/13/2015	5/13/2015	MJR	
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	5/13/2015	5/13/2015	MJR	
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	5/13/2015	5/13/2015	MJR	
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	5/13/2015	5/13/2015	MJR	
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B	5/13/2015	5/13/2015	MJR	
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B	5/13/2015	5/13/2015	MJR	
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	5/13/2015	5/13/2015	MJR	
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	5/13/2015	5/13/2015	MJR	
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B	5/13/2015	5/13/2015	MJR	
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B	5/13/2015	5/13/2015	MJR	
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B	5/13/2015	5/13/2015	MJR	
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B	5/13/2015	5/13/2015	MJR	
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B	5/13/2015	5/13/2015	MJR	
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B	5/13/2015	5/13/2015	MJR	
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B	5/13/2015	5/13/2015	MJR	
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B	5/13/2015	5/13/2015	MJR	
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	5/13/2015	5/13/2015	MJR	
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	5/13/2015	5/13/2015	MJR	
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	5/13/2015	5/13/2015	MJR	
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B	5/13/2015	5/13/2015	MJR	
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	5/13/2015	5/13/2015	MJR	
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	5/13/2015	5/13/2015	MJR	
SUR - Toluene-d8	101	REC %			1	8260B	5/13/2015	5/13/2015	MJR	
SUR - 1,2-Dichloroethane-d4	106	REC %			1	8260B	5/13/2015	5/13/2015	MJR	
SUR - 4-Bromofluorobenzene	108	REC %			1	8260B	5/13/2015	5/13/2015	MJR	
SUR - Dibromofluoromethane	102	REC %			1	8260B	5/13/2015	5/13/2015	MJR	

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897O
Sample ID GP-8-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	80.3	%			1	5021		5/11/2015	MDK	1
Organic										
VOC's										
Benzene	< 0.016	mg/kg	0.016	0.049	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromodichloromethane	< 0.015	mg/kg	0.015	0.048	1	8260B	5/12/2015	5/12/2015	MJR	1
Bromoform	< 0.023	mg/kg	0.023	0.073	1	8260B	5/12/2015	5/12/2015	MJR	1
tert-Butylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
sec-Butylbenzene	< 0.036	mg/kg	0.036	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Butylbenzene	< 0.086	mg/kg	0.086	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
Carbon Tetrachloride	< 0.021	mg/kg	0.021	0.067	1	8260B	5/12/2015	5/12/2015	MJR	1
Chlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroethane	< 0.045	mg/kg	0.045	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloroform	< 0.026	mg/kg	0.026	0.081	1	8260B	5/12/2015	5/12/2015	MJR	1
Chloromethane	< 0.25	mg/kg	0.25	0.78	1	8260B	5/12/2015	5/12/2015	MJR	1
2-Chlorotoluene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
4-Chlorotoluene	< 0.032	mg/kg	0.032	0.1	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dibromo-3-chloropropane	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
Dibromochloromethane	< 0.031	mg/kg	0.031	0.098	1	8260B	5/12/2015	5/12/2015	MJR	1
1,4-Dichlorobenzene	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichlorobenzene	< 0.03	mg/kg	0.03	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichlorobenzene	< 0.039	mg/kg	0.039	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
Dichlorodifluoromethane	< 0.043	mg/kg	0.043	0.14	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloroethane	< 0.03	mg/kg	0.03	0.096	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethane	< 0.025	mg/kg	0.025	0.079	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1-Dichloroethene	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
cis-1,2-Dichloroethene	< 0.021	mg/kg	0.021	0.068	1	8260B	5/12/2015	5/12/2015	MJR	1
trans-1,2-Dichloroethene	< 0.024	mg/kg	0.024	0.076	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2-Dichloropropane	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
2,2-Dichloropropane	< 0.1	mg/kg	0.1	0.33	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3-Dichloropropane	< 0.031	mg/kg	0.031	0.097	1	8260B	5/12/2015	5/12/2015	MJR	1
Di-isopropyl ether	< 0.012	mg/kg	0.012	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
EDB (1,2-Dibromoethane)	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Ethylbenzene	< 0.027	mg/kg	0.027	0.086	1	8260B	5/12/2015	5/12/2015	MJR	1
Hexachlorobutadiene	< 0.11	mg/kg	0.11	0.36	1	8260B	5/12/2015	5/12/2015	MJR	1
Isopropylbenzene	< 0.037	mg/kg	0.037	0.12	1	8260B	5/12/2015	5/12/2015	MJR	1
p-Isopropyltoluene	< 0.056	mg/kg	0.056	0.18	1	8260B	5/12/2015	5/12/2015	MJR	1
Methylene chloride	< 0.22	mg/kg	0.22	0.7	1	8260B	5/12/2015	5/12/2015	MJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.025	0.078	1	8260B	5/12/2015	5/12/2015	MJR	1
Naphthalene	< 0.087	mg/kg	0.087	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
n-Propylbenzene	< 0.035	mg/kg	0.035	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2,2-Tetrachloroethane	< 0.013	mg/kg	0.013	0.04	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1,2-Tetrachloroethane	< 0.029	mg/kg	0.029	0.093	1	8260B	5/12/2015	5/12/2015	MJR	1
Tetrachloroethene	< 0.054	mg/kg	0.054	0.17	1	8260B	5/12/2015	5/12/2015	MJR	1
Toluene	< 0.031	mg/kg	0.031	0.099	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trichlorobenzene	< 0.085	mg/kg	0.085	0.27	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,3-Trichlorobenzene	< 0.12	mg/kg	0.12	0.38	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,1-Trichloroethane	< 0.04	mg/kg	0.04	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
1,1,2-Trichloroethane	< 0.033	mg/kg	0.033	0.11	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichloroethene (TCE)	< 0.042	mg/kg	0.042	0.13	1	8260B	5/12/2015	5/12/2015	MJR	1
Trichlorofluoromethane	< 0.06	mg/kg	0.06	0.19	1	8260B	5/12/2015	5/12/2015	MJR	1
1,2,4-Trimethylbenzene	< 0.078	mg/kg	0.078	0.25	1	8260B	5/12/2015	5/12/2015	MJR	1
1,3,5-Trimethylbenzene	< 0.089	mg/kg	0.089	0.28	1	8260B	5/12/2015	5/12/2015	MJR	1
Vinyl Chloride	< 0.01	mg/kg	0.01	0.031	1	8260B	5/12/2015	5/12/2015	MJR	1
m&p-Xylene	< 0.07	mg/kg	0.07	0.22	1	8260B	5/12/2015	5/12/2015	MJR	1
o-Xylene	< 0.029	mg/kg	0.029	0.092	1	8260B	5/12/2015	5/12/2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897
Project #

Lab Code 5028897O
Sample ID GP-8-S
Sample Matrix Soil
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Dibromofluoromethane	97	Rec %			1	8260B	5/12/2015	5/12 2015	MJR	1
SUR - Toluene-d8	100	Rec %			1	8260B	5/12/2015	5/12 2015	MJR	1
SUR - 1,2-Dichloroethane-d4	109	Rec %			1	8260B	5/12 2015	5/12 2015	MJR	1
SUR - 4-Bromofluorobenzene	113	Rec %			1	8260B	5/12/2015	5/12 2015	MJR	1

Project Name W9468 IRON ROAD - BEAVER DAMv **Invoice #** E28897

Project #

Lab Code 5028897P
Sample ID GP-8-W
Sample Matrix Water
Sample Date 5/7/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B	5/13/2015	5/13/2015	MJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B	5/13/2015	5/13/2015	MJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B	5/13/2015	5/13/2015	MJR	I
Carbon Tetrachloride	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B	5/13/2015	5/13/2015	MJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B	5/13/2015	5/13/2015	MJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B	5/13/2015	5/13/2015	MJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2-Dichloroethane	< 0.54	ug/l	0.54	1.7	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B	5/13/2015	5/13/2015	MJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B	5/13/2015	5/13/2015	MJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B	5/13/2015	5/13/2015	MJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B	5/13/2015	5/13/2015	MJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B	5/13/2015	5/13/2015	MJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B	5/13/2015	5/13/2015	MJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B	5/13/2015	5/13/2015	MJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B	5/13/2015	5/13/2015	MJR	I
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B	5/13/2015	5/13/2015	MJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B	5/13/2015	5/13/2015	MJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B	5/13/2015	5/13/2015	MJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Tetrachloroethene	< 0.74	ug/l	0.74	2.4	1	8260B	5/13/2015	5/13/2015	MJR	I
Toluene	0.6 "J"	ug/l	0.44	1.4	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B	5/13/2015	5/13/2015	MJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B	5/13/2015	5/13/2015	MJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B	5/13/2015	5/13/2015	MJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B	5/13/2015	5/13/2015	MJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B	5/13/2015	5/13/2015	MJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B	5/13/2015	5/13/2015	MJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B	5/13/2015	5/13/2015	MJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B	5/13/2015	5/13/2015	MJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B	5/13/2015	5/13/2015	MJR	I
SUR - Toluene-d8	99	REC %			1	8260B	5/13/2015	5/13/2015	MJR	I
SUR - 1,2-Dichloroethane-d4	108	REC %			1	8260B	5/13/2015	5/13/2015	MJR	I
SUR - 4-Bromofluorobenzene	107	REC %			1	8260B	5/13/2015	5/13/2015	MJR	I
SUR - Dibromofluoromethane	102	REC %			1	8260B	5/13/2015	5/13/2015	MJR	I

"J" Flag: Analyte detected between LOD and LOQ LOD Limit of Detection LOQ Limit of Quantitation

Code	*Comment*
1	Laboratory QC within limits.
2	Relative percent difference failed for laboratory spiked samples.
3	The matrix spike not within established limits.
7	The LCS not within established limits.
8	Closing calibration standard not within established limits.

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

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

Chain # NL 252

Page 1 of 2

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

Lab I.D. #

Account No.

Quote No.:

Project #

Sampler: (signature)

Project (Name / Location): W9466 Ironwood - Center Lot

Reports To: Morton	Invoice To: Morton
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	Collection 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)	PVOC (EPA 8021)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC (W EPA 542.2)	VOC (EPA 8260)	6 RCRA METALS	PID/FID
582887-9	GP-1-S	5/4/11	720		X																		
B	GP-1-W		915		X																		
C	GP-2-S		733		X																		
D	GP-2-W		734		X																		
E	GP-3-S		942		X																		
F	GP-3-W		951		X																		
G	GP-4-S		1002		X																		
H	GP-4-W		1011		X																		
I	GP-5-S		1019		X																		
J	GP-5-W		1030		X																		

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

Sample Integrity - To be completed by receiving lab.

Method of Shipment: Courier

Temp. of Temp. Blank ____ °C On Ice: ✓

Cooler seal intact upon receipt: ✓ Yes ____ No

Relinquished By: (sign) | Time | Date | Received By: (sign) | Time | Date

Received in Laboratory By: [signature] | Time | Date

CHAIN OF CUSTODY RECORD

Synergy

Environmental Lab, Inc.

1990 Prospect Ct • Appleton, WI 54914
920-830-3455 • FAX 920-733-0631

Chain # [illegible] 252

Page 2 of

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)

Project (Name / Location)

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	Collection 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)	PVOC (EPA 602)	PVOC + NAPHTHALENE	SULFATE	TOTAL SUSPENDED SOLIDS	VOC (EPA 624.2)	VOC (EPA 8260)	8 RCRA METALS	PID/FID
5-285976	GP-6-S	7/10	1038		X		1														X		
6	GP-6-W	"	1044		X		2														X		
7	GP-7-S	"	1054		X		1														X		
8	GP-7-W	"	1102		X		3														X		
2	GP-8-S	"	1111		X		1														X		
5	GP-8-W	"	1130		X		3														X		

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

Sample Integrity - To be completed by receiving lab.

Method of Shipment:

Temp. of Temp. Blank ___ °C On Ice:

Cooler seal intact upon receipt: Yes No

Relinquished By (sign)	Time	Date	Received By (sign)	Time	Date

Received in Laboratory By: [illegible] Time: [illegible] Date: [illegible]

Synergy Environmental Lab,

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

KEVIN MARON
KEVIN MARON
7420 W. DRUMMOND STREET
IRON RIVER, WI 54847

Report Date *21-Apr-16*

Project Name MARON PROPERTY **Invoice #** E30881
Project #

Lab Code 5030881A
Sample ID W9468 PW
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/20/2016	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/20/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/20/2016	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/20/2016	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/20/2016	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/20/2016	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/20/2016	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/20/2016	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/20/2016	CJR	I

Lab Code 5030881B
Sample ID MW-4
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/20/2016	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/20/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/20/2016	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/20/2016	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/20/2016	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/20/2016	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/20/2016	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/20/2016	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/20/2016	CJR	I

Project Name MARON PROPERTY **Invoice #** E30881
Project #

Lab Code 5030881C
Sample ID MW-3
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/20/2016	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/20/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/20/2016	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/20/2016	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/20/2016	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/20/2016	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/20/2016	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/20/2016	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/20/2016	CJR	I

Lab Code 5030881D
Sample ID MW-2
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/20/2016	CJR	I
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/20/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/20/2016	CJR	I
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/20/2016	CJR	I
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/20/2016	CJR	I
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/20/2016	CJR	I
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/20/2016	CJR	I
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/20/2016	CJR	I
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/20/2016	CJR	I

Lab Code 5030881E
Sample ID MW-1
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 46	ug/l	46	150	100	GRO95/8021		4/21/2016	CJR	I
Ethylbenzene	1580	ug/l	73	230	100	GRO95/8021		4/21/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 49	ug/l	49	160	100	GRO95/8021		4/21/2016	CJR	I
Naphthalene	490 "J"	ug/l	260	830	100	GRO95/8021		4/21/2016	CJR	I
Toluene	760	ug/l	39	120	100	GRO95/8021		4/21/2016	CJR	I
1,2,4-Trimethylbenzene	3700	ug/l	68	220	100	GRO95/8021		4/21/2016	CJR	I
1,3,5-Trimethylbenzene	1230	ug/l	83	260	100	GRO95/8021		4/21/2016	CJR	I
m&p-Xylene	5800	ug/l	140	440	100	GRO95/8021		4/21/2016	CJR	I
o-Xylene	1560	ug/l	66	210	100	GRO95/8021		4/21/2016	CJR	I

Project Name MARON PROPERTY **Invoice #** E30881
Project #

Lab Code 5030881F
Sample ID TB
Sample Matrix Water
Sample Date 4/18/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.46	ug/l	0.46	1.5	1	GRO95/8021		4/20/2016	CJR	1
Ethylbenzene	< 0.73	ug/l	0.73	2.3	1	GRO95/8021		4/20/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.49	ug/l	0.49	1.6	1	GRO95/8021		4/20/2016	CJR	1
Naphthalene	< 2.6	ug/l	2.6	8.3	1	GRO95/8021		4/20/2016	CJR	1
Toluene	< 0.39	ug/l	0.39	1.2	1	GRO95/8021		4/20/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.68	ug/l	0.68	2.2	1	GRO95/8021		4/20/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.83	ug/l	0.83	2.6	1	GRO95/8021		4/20/2016	CJR	1
m&p-Xylene	< 1.4	ug/l	1.4	4.4	1	GRO95/8021		4/20/2016	CJR	1
o-Xylene	< 0.66	ug/l	0.66	2.1	1	GRO95/8021		4/20/2016	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.

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 STODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # N2 287

Page 1 of 1

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

Lab I.D. #

Account No. : **Quote No.:**

Project #:

Sampler: (signature) Jason Jones

Project (Name / Location): Mason Property / Beaver Dam

Reports To: Kev - Mason	Invoice To: Kev - Mason
Company	Company c/o METCO
Address 7420 W. Drummond St.	Address 709 Gillette St, Ste. 3
City State Zip Iron River, WI 54847	City State Zip La Crosse, WI 54603
Phone	Phone
FAX	FAX

Analysis Requested | **Other Analysis**

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS						PID/ FID
S030881 A	W9468 PW	4-18	115				3	GW	HCL									X											
B	MW-4		100															X											
C	MW-3		130															X											
D	MW-2		150															X											
E	MW-1		215															X											
F	TB						1											X											

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: Driven

Temp. of Temp. Blank ____ °C On Ice: X

Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Jason Jones	8:00 am	4-19-16			

Received in Laboratory By: [signature] Time: 8:00 Date: 4/20/16

Synergy Environmental Lab,

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

KAREN MARON
KAREN MARON
7420 W. DRUMMOMD STREET
IRON RIVER, WI 54847

Report Date *04-Feb-16*

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377A
Sample ID W9468 DW
Sample Matrix Drinking Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.43	ug/l	0.43	1.36	1	524.2		2/3/2016	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.52	1	524.2		2/3/2016	CJR	I
Bromodichloromethane	< 0.48	ug/l	0.48	1.52	1	524.2		2/3/2016	CJR	I
Bromoform	< 0.9	ug/l	0.9	2.85	1	524.2		2/3/2016	CJR	I
Bromomethane	< 2.6	ug/l	2.6	8.1	1	524.2		2/3/2016	CJR	I
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.61	1	524.2		2/3/2016	CJR	I
Chlorobenzene	< 0.45	ug/l	0.45	1.44	1	524.2		2/3/2016	CJR	I
Chloroethane	< 0.46	ug/l	0.46	1.47	1	524.2		2/3/2016	CJR	I
Chloroform	< 0.44	ug/l	0.44	1.41	1	524.2		2/3/2016	CJR	I
Chloromethane	< 0.79	ug/l	0.79	2.53	1	524.2		2/3/2016	CJR	I
2-Chlorotoluene	< 0.39	ug/l	0.39	1.26	1	524.2		2/3/2016	CJR	I
4-Chlorotoluene	< 0.46	ug/l	0.46	1.45	1	524.2		2/3/2016	CJR	I
Dibromochloromethane	< 0.6	ug/l	0.6	1.92	1	524.2		2/3/2016	CJR	I
Dibromomethane	< 0.56	ug/l	0.56	1.79	1	524.2		2/3/2016	CJR	I
1,4-Dichlorobenzene	< 0.48	ug/l	0.48	1.53	1	524.2		2/3/2016	CJR	I
1,3-Dichlorobenzene	< 0.54	ug/l	0.54	1.71	1	524.2		2/3/2016	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.46	1	524.2		2/3/2016	CJR	I
Dichlorodifluoromethane	< 0.91	ug/l	0.91	2.89	1	524.2		2/3/2016	CJR	I
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.54	1	524.2		2/3/2016	CJR	I
1,1-Dichloroethane	< 0.98	ug/l	0.98	3.12	1	524.2		2/3/2016	CJR	I
1,1-Dichloroethene	< 0.52	ug/l	0.52	1.67	1	524.2		2/3/2016	CJR	I
cis-1,2-Dichloroethene	< 0.46	ug/l	0.46	1.48	1	524.2		2/3/2016	CJR	I
trans-1,2-Dichloroethene	< 0.49	ug/l	0.49	1.57	1	524.2		2/3/2016	CJR	I
1,2-Dichloropropane	< 0.5	ug/l	0.5	1.59	1	524.2		2/3/2016	CJR	I
2,2-Dichloropropane	< 2.1	ug/l	2.1	6.54	1	524.2		2/3/2016	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.32	1	524.2		2/3/2016	CJR	I
trans-1,3-Dichloropropene	< 0.51	ug/l	0.51	1.62	1	524.2		2/3/2016	CJR	I
cis-1,3-Dichloropropene	< 0.44	ug/l	0.44	1.41	1	524.2		2/3/2016	CJR	I
1,1-Dichloropropene	< 0.58	ug/l	0.58	1.85	1	524.2		2/3/2016	CJR	I
Ethylbenzene	< 0.39	ug/l	0.39	1.23	1	524.2		2/3/2016	CJR	I
Hexachlorobutadiene	< 0.92	ug/l	0.92	2.93	1	524.2		2/3/2016	CJR	I
Isopropylbenzene	< 0.44	ug/l	0.44	1.41	1	524.2		2/3/2016	CJR	I
p-Isopropyltoluene	< 0.49	ug/l	0.49	1.57	1	524.2		2/3/2016	CJR	I

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377A
Sample ID W9468 DW
Sample Matrix Drinking Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Methylene chloride	< 0.45	ug/l	0.45	1.42	1	524.2		2/3/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1	ug/l	1	3.22	1	524.2		2/3/2016	CJR	1
Naphthalene	< 0.67	ug/l	0.67	2.14	1	524.2		2/3/2016	CJR	1
Styrene	< 0.4	ug/l	0.4	1.27	1	524.2		2/3/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.53	ug/l	0.53	1.7	1	524.2		2/3/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.66	1	524.2		2/3/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.55	1	524.2		2/3/2016	CJR	1
Toluene	< 0.45	ug/l	0.45	1.43	1	524.2		2/3/2016	CJR	1
1,2,4-Trichlorobenzene	< 0.55	ug/l	0.55	1.77	1	524.2		2/3/2016	CJR	1
1,1,1-Trichloroethane	< 0.35	ug/l	0.35	1.12	1	524.2		2/3/2016	CJR	1
1,1,2-Trichloroethane	< 0.55	ug/l	0.55	1.76	1	524.2		2/3/2016	CJR	1
Trichloroethene (TCE)	< 0.48	ug/l	0.48	1.54	1	524.2		2/3/2016	CJR	1
Trichlorofluoromethane	< 0.91	ug/l	0.91	2.88	1	524.2		2/3/2016	CJR	1
1,2,3-Trichloropropane	< 0.99	ug/l	0.99	3.16	1	524.2		2/3/2016	CJR	1
Trichlorotrifluoroethane	< 0.86	ug/l	0.86	2.73	1	524.2		2/3/2016	CJR	1
1,2,4-Trimethylbenzene	< 0.52	ug/l	0.52	1.67	1	524.2		2/3/2016	CJR	1
1,3,5-Trimethylbenzene	< 0.47	ug/l	0.47	1.49	1	524.2		2/3/2016	CJR	1
Vinyl Chloride	< 0.2	ug/l	0.2	0.64	1	524.2		2/3/2016	CJR	1
m&p-Xylene	< 0.85	ug/l	0.85	2.69	1	524.2		2/3/2016	CJR	1
o-Xylene	< 0.55	ug/l	0.55	1.76	1	524.2		2/3/2016	CJR	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #
Lab Code 5030377B
Sample ID MW-4
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.07 "J"	mg/l	0.02	0.7	1	200.7		2/1/2016	CWT	1
Manganese, Dissolved	29.3	ug/L	4.5	14.4	1	200.7		2/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	1/25/2016	1/25/2016	MDK	1
Anthracene	0.042 "J"	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(a)anthracene	0.126	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(a)pyrene	0.093	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(b)fluoranthene	0.15	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(g,h,i)perylene	0.095	ug/l	0.024	0.078	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(k)fluoranthene	0.084	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Chrysene	0.138	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Dibenzo(a,h)anthracene	0.043 "J"	ug/l	0.025	0.081	1	M8270C	1/25/2016	1/25/2016	MDK	1
Fluoranthene	0.14	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Indeno(1,2,3-cd)pyrene	0.076	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
1-Methyl naphthalene	0.026 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
2-Methyl naphthalene	0.018 "J"	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Naphthalene	0.039 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Phenanthrene	0.048 "J"	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Pyrene	0.135	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		1/28/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		1/28/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		1/28/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		1/28/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		1/28/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		1/28/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		1/28/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		1/28/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		1/28/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		1/28/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		1/28/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		1/28/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		1/28/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		1/28/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		1/28/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		1/28/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		1/28/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		1/28/2016	CJR	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377B
Sample ID MW-4
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		1/28/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		1/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		1/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		1/28/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		1/28/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		1/28/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		1/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		1/28/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		1/28/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		1/28/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		1/28/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		1/28/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		1/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		1/28/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		1/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		1/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		1/28/2016	CJR	1
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		1/28/2016	CJR	1
SUR - Dibromofluoromethane	121	REC %			1	8260B		1/28/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		1/28/2016	CJR	1
SUR - Toluene-d8	92	REC %			1	8260B		1/28/2016	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	0.318 "J"	mg/l	0.13	0.43	1	353.2		1/28/2016	MDK	1
Sulfate, Unfiltered	31.2	mg/l	0.6	2	2	5021		1/28/2016	DJL	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377C
Sample ID MW-3
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.03 "J"	mg/l	0.02	0.7	1	200.7		2/1/2016	CWT	1
Manganese, Dissolved	32.5	ug/L	4.5	14.4	1	200.7		2/1/2016	CWT	1
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	1
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	1/25/2016	1/25/2016	MDK	1
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(a)anthracene	0.028 "J"	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(a)pyrene	< 0.019	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(b)fluoranthene	< 0.019	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.078	1	M8270C	1/25/2016	1/25/2016	MDK	1
Benzo(k)fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Chrysene	0.022 "J"	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	1/25/2016	1/25/2016	MDK	1
Fluoranthene	0.029 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
1-Methyl naphthalene	0.021 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
2-Methyl naphthalene	0.025 "J"	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Naphthalene	0.024 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
Phenanthrene	0.021 "J"	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	1
Pyrene	0.027 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	1
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		1/28/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		1/28/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		1/28/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		1/28/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		1/28/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		1/28/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		1/28/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		1/28/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		1/28/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		1/28/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		1/28/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		1/28/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		1/28/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		1/28/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		1/28/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		1/28/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		1/28/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		1/28/2016	CJR	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377C
Sample ID MW-3
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		1/28/2016	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		1/28/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		1/28/2016	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		1/28/2016	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		1/28/2016	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		1/28/2016	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	I
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		1/28/2016	CJR	I
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		1/28/2016	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		1/28/2016	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		1/28/2016	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		1/28/2016	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		1/28/2016	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		1/28/2016	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		1/28/2016	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		1/28/2016	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		1/28/2016	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		1/28/2016	CJR	I
SUR - 1,2-Dichloroethane-d4	99	REC %			1	8260B		1/28/2016	CJR	I
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		1/28/2016	CJR	I
SUR - Dibromofluoromethane	108	REC %			1	8260B		1/28/2016	CJR	I
SUR - Toluene-d8	95	REC %			1	8260B		1/28/2016	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	1.19	mg/l	0.13	0.43	1	353.2		1/28/2016	MDK	I
Sulfate, Unfiltered	30.8	mg/l	0.6	2	2	5021		1/28/2016	DJL	I

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377D
Sample ID MW-2
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.04 "J"	mg/l	0.02	0.7	1	200.7		2/1/2016	CWT	I
Manganese, Dissolved	79.6	ug/L	4.5	14.4	1	200.7		2/1/2016	CWT	I
Organic										
PAH SIM										
Acenaphthene	< 0.02	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	I
Acenaphthylene	< 0.021	ug/l	0.021	0.068	1	M8270C	1/25/2016	1/25/2016	MDK	I
Anthracene	< 0.02	ug/l	0.02	0.064	1	M8270C	1/25/2016	1/25/2016	MDK	I
Benzo(a)anthracene	< 0.019	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	I
Benzo(a)pyrene	< 0.019	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	I
Benzo(b)fluoranthene	< 0.019	ug/l	0.019	0.062	1	M8270C	1/25/2016	1/25/2016	MDK	I
Benzo(g,h,i)perylene	< 0.024	ug/l	0.024	0.078	1	M8270C	1/25/2016	1/25/2016	MDK	I
Benzo(k)fluoranthene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
Chrysene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	I
Dibenzo(a,h)anthracene	< 0.025	ug/l	0.025	0.081	1	M8270C	1/25/2016	1/25/2016	MDK	I
Fluoranthene	0.022 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
Fluorene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	I
Indeno(1,2,3-cd)pyrene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
1-Methyl naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
2-Methyl naphthalene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	I
Naphthalene	< 0.018	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
Phenanthrene	< 0.017	ug/l	0.017	0.054	1	M8270C	1/25/2016	1/25/2016	MDK	I
Pyrene	0.020 "J"	ug/l	0.018	0.057	1	M8270C	1/25/2016	1/25/2016	MDK	I
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	I
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	I
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	I
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	I
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		1/28/2016	CJR	I
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		1/28/2016	CJR	I
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		1/28/2016	CJR	I
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		1/28/2016	CJR	I
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		1/28/2016	CJR	I
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	I
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		1/28/2016	CJR	I
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		1/28/2016	CJR	I
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		1/28/2016	CJR	I
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	I
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		1/28/2016	CJR	I
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	I
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		1/28/2016	CJR	I
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		1/28/2016	CJR	I
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	I
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	I
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	I
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		1/28/2016	CJR	I
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	I
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	I
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		1/28/2016	CJR	I
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		1/28/2016	CJR	I
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		1/28/2016	CJR	I
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		1/28/2016	CJR	I
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	I
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	I
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		1/28/2016	CJR	I
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		1/28/2016	CJR	I
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		1/28/2016	CJR	I

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377D
Sample ID MW-2
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		1/28/2016	CJR	I
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		1/28/2016	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		1/28/2016	CJR	I
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		1/28/2016	CJR	I
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		1/28/2016	CJR	I
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		1/28/2016	CJR	I
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	I
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		1/28/2016	CJR	I
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	I
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		1/28/2016	CJR	I
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		1/28/2016	CJR	I
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		1/28/2016	CJR	I
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		1/28/2016	CJR	I
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		1/28/2016	CJR	I
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	I
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		1/28/2016	CJR	I
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		1/28/2016	CJR	I
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		1/28/2016	CJR	I
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		1/28/2016	CJR	I
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		1/28/2016	CJR	I
SUR - 1,2-Dichloroethane-d4	82	REC %			1	8260B		1/28/2016	CJR	I
SUR - 4-Bromofluorobenzene	102	REC %			1	8260B		1/28/2016	CJR	I
SUR - Dibromofluoromethane	94	REC %			1	8260B		1/28/2016	CJR	I
SUR - Toluene-d8	96	REC %			1	8260B		1/28/2016	CJR	I
Wet Chemistry										
General										
Nitrite Plus Nitrate	0.434	mg/l	0.13	0.43	1	353.2		1/28/2016	MDK	I
Sulfate, Unfiltered	158	mg/l	0.6	2	2	5021		1/28/2016	DJL	I

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377E
Sample ID MW-1
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Inorganic										
Metals										
Iron, Dissolved	0.60 "J"	mg/l	0.02	0.7	1	200.7		2/1/2016	CWT	I
Manganese, Dissolved	70.0	ug/L	4.5	14.4	1	200.7		2/1/2016	CWT	I
Organic										
PAH SIM										
Acenaphthene	< 2	ug/l	2	6.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Acenaphthylene	< 2.1	ug/l	2.1	6.8	100	M8270C	1/25/2016	1/26/2016	MDK	I
Anthracene	< 2	ug/l	2	6.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Benzo(a)anthracene	< 1.9	ug/l	1.9	6.2	100	M8270C	1/25/2016	1/26/2016	MDK	I
Benzo(a)pyrene	< 1.9	ug/l	1.9	6.2	100	M8270C	1/25/2016	1/26/2016	MDK	I
Benzo(b)fluoranthene	< 1.9	ug/l	1.9	6.2	100	M8270C	1/25/2016	1/26/2016	MDK	I
Benzo(g,h,i)perylene	< 2.4	ug/l	2.4	7.8	100	M8270C	1/25/2016	1/26/2016	MDK	I
Benzo(k)fluoranthene	< 1.8	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
Chrysene	< 1.7	ug/l	1.7	5.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Dibenzo(a,h)anthracene	< 2.5	ug/l	2.5	8.1	100	M8270C	1/25/2016	1/26/2016	MDK	I
Fluoranthene	< 1.8	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
Fluorene	< 1.7	ug/l	1.7	5.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Indeno(1,2,3-cd)pyrene	< 1.8	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
1-Methyl naphthalene	65	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
2-Methyl naphthalene	121	ug/l	1.7	5.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Naphthalene	380	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
Phenanthrene	2.1 "J"	ug/l	1.7	5.4	100	M8270C	1/25/2016	1/26/2016	MDK	I
Pyrene	< 1.8	ug/l	1.8	5.7	100	M8270C	1/25/2016	1/26/2016	MDK	I
VOC's										
Benzene	< 44	ug/l	44	140	100	8260B		1/28/2016	CJR	I
Bromobenzene	< 48	ug/l	48	150	100	8260B		1/28/2016	CJR	I
Bromodichloromethane	< 46	ug/l	46	150	100	8260B		1/28/2016	CJR	I
Bromoform	< 46	ug/l	46	150	100	8260B		1/28/2016	CJR	I
tert-Butylbenzene	< 110	ug/l	110	340	100	8260B		1/28/2016	CJR	I
sec-Butylbenzene	< 120	ug/l	120	380	100	8260B		1/28/2016	CJR	I
n-Butylbenzene	< 100	ug/l	100	330	100	8260B		1/28/2016	CJR	I
Carbon Tetrachloride	< 51	ug/l	51	160	100	8260B		1/28/2016	CJR	I
Chlorobenzene	< 46	ug/l	46	140	100	8260B		1/28/2016	CJR	I
Chloroethane	< 65	ug/l	65	210	100	8260B		1/28/2016	CJR	I
Chloroform	< 43	ug/l	43	140	100	8260B		1/28/2016	CJR	I
Chloromethane	< 190	ug/l	190	600	100	8260B		1/28/2016	CJR	I
2-Chlorotoluene	< 40	ug/l	40	130	100	8260B		1/28/2016	CJR	I
4-Chlorotoluene	< 63	ug/l	63	200	100	8260B		1/28/2016	CJR	I
1,2-Dibromo-3-chloropropane	< 140	ug/l	140	450	100	8260B		1/28/2016	CJR	I
Dibromochloromethane	< 45	ug/l	45	140	100	8260B		1/28/2016	CJR	I
1,4-Dichlorobenzene	< 49	ug/l	49	160	100	8260B		1/28/2016	CJR	I
1,3-Dichlorobenzene	< 52	ug/l	52	160	100	8260B		1/28/2016	CJR	I
1,2-Dichlorobenzene	< 46	ug/l	46	150	100	8260B		1/28/2016	CJR	I
Dichlorodifluoromethane	< 87	ug/l	87	280	100	8260B		1/28/2016	CJR	I
1,2-Dichloroethane	< 48	ug/l	48	150	100	8260B		1/28/2016	CJR	I
1,1-Dichloroethane	< 110	ug/l	110	360	100	8260B		1/28/2016	CJR	I
1,1-Dichloroethene	< 65	ug/l	65	210	100	8260B		1/28/2016	CJR	I
cis-1,2-Dichloroethene	< 45	ug/l	45	140	100	8260B		1/28/2016	CJR	I
trans-1,2-Dichloroethene	< 54	ug/l	54	170	100	8260B		1/28/2016	CJR	I
1,2-Dichloropropane	< 43	ug/l	43	137	100	8260B		1/28/2016	CJR	I
2,2-Dichloropropane	< 310	ug/l	310	980	100	8260B		1/28/2016	CJR	I
1,3-Dichloropropane	< 42	ug/l	42	130	100	8260B		1/28/2016	CJR	I
Di-isopropyl ether	< 44	ug/l	44	140	100	8260B		1/28/2016	CJR	I
EDB (1,2-Dibromoethane)	< 63	ug/l	63	200	100	8260B		1/28/2016	CJR	I
Ethylbenzene	1920	ug/l	71	230	100	8260B		1/28/2016	CJR	I
Hexachlorobutadiene	< 220	ug/l	220	710	100	8260B		1/28/2016	CJR	I
Isopropylbenzene	130 "J"	ug/l	82	260	100	8260B		1/28/2016	CJR	I

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377E
Sample ID MW-1
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
p-Isopropyltoluene	< 110	ug/l	110	350	100	8260B		1/28/2016	CJR	1
Methylene chloride	< 130	ug/l	130	420	100	8260B		1/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 110	ug/l	110	370	100	8260B		1/28/2016	CJR	1
Naphthalene	550	ug/l	160	520	100	8260B		1/28/2016	CJR	1
n-Propylbenzene	460	ug/l	77	240	100	8260B		1/28/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 52	ug/l	52	170	100	8260B		1/28/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 48	ug/l	48	150	100	8260B		1/28/2016	CJR	1
Tetrachloroethene	< 49	ug/l	49	150	100	8260B		1/28/2016	CJR	1
Toluene	830	ug/l	44	140	100	8260B		1/28/2016	CJR	1
1,2,4-Trichlorobenzene	< 170	ug/l	170	560	100	8260B		1/28/2016	CJR	1
1,2,3-Trichlorobenzene	< 270	ug/l	270	860	100	8260B		1/28/2016	CJR	1
1,1,1-Trichloroethane	< 84	ug/l	84	270	100	8260B		1/28/2016	CJR	1
1,1,2-Trichloroethane	< 48	ug/l	48	152	100	8260B		1/28/2016	CJR	1
Trichloroethene (TCE)	< 47	ug/l	47	150	100	8260B		1/28/2016	CJR	1
Trichlorofluoromethane	< 87	ug/l	87	280	100	8260B		1/28/2016	CJR	1
1,2,4-Trimethylbenzene	3500	ug/l	160	500	100	8260B		1/28/2016	CJR	1
1,3,5-Trimethylbenzene	1060	ug/l	150	480	100	8260B		1/28/2016	CJR	1
Vinyl Chloride	< 17	ug/l	17	54	100	8260B		1/28/2016	CJR	1
m&p-Xylene	7600	ug/l	220	690	100	8260B		1/28/2016	CJR	1
o-Xylene	2390	ug/l	90	290	100	8260B		1/28/2016	CJR	1
SUR - 4-Bromofluorobenzene	100	REC %			100	8260B		1/28/2016	CJR	1
SUR - Dibromofluoromethane	111	REC %			100	8260B		1/28/2016	CJR	1
SUR - Toluene-d8	97	REC %			100	8260B		1/28/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	102	REC %			100	8260B		1/28/2016	CJR	1
Wet Chemistry										
General										
Nitrite Plus Nitrate	< 0.13	mg/l	0.13	0.43	1	353.2		1/28/2016	MDK	1
Sulfate, Unfiltered	18.9	mg/l	0.6	2	2	5021		1/28/2016	DJL	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #

Lab Code 5030377F
Sample ID TB
Sample Matrix Water
Sample Date 1/21/2016

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
VOC's										
Benzene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
Bromobenzene	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
Bromodichloromethane	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Bromoform	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
tert-Butylbenzene	< 1.1	ug/l	1.1	3.4	1	8260B		1/28/2016	CJR	1
sec-Butylbenzene	< 1.2	ug/l	1.2	3.8	1	8260B		1/28/2016	CJR	1
n-Butylbenzene	< 1	ug/l	1	3.3	1	8260B		1/28/2016	CJR	1
Carbon Tetrachloride	< 0.51	ug/l	0.51	1.6	1	8260B		1/28/2016	CJR	1
Chlorobenzene	< 0.46	ug/l	0.46	1.4	1	8260B		1/28/2016	CJR	1
Chloroethane	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
Chloroform	< 0.43	ug/l	0.43	1.4	1	8260B		1/28/2016	CJR	1
Chloromethane	< 1.9	ug/l	1.9	6	1	8260B		1/28/2016	CJR	1
2-Chlorotoluene	< 0.4	ug/l	0.4	1.3	1	8260B		1/28/2016	CJR	1
4-Chlorotoluene	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
1,2-Dibromo-3-chloropropane	< 1.4	ug/l	1.4	4.5	1	8260B		1/28/2016	CJR	1
Dibromochloromethane	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
1,4-Dichlorobenzene	< 0.49	ug/l	0.49	1.6	1	8260B		1/28/2016	CJR	1
1,3-Dichlorobenzene	< 0.52	ug/l	0.52	1.6	1	8260B		1/28/2016	CJR	1
1,2-Dichlorobenzene	< 0.46	ug/l	0.46	1.5	1	8260B		1/28/2016	CJR	1
Dichlorodifluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	1
1,2-Dichloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethane	< 1.1	ug/l	1.1	3.6	1	8260B		1/28/2016	CJR	1
1,1-Dichloroethene	< 0.65	ug/l	0.65	2.1	1	8260B		1/28/2016	CJR	1
cis-1,2-Dichloroethene	< 0.45	ug/l	0.45	1.4	1	8260B		1/28/2016	CJR	1
trans-1,2-Dichloroethene	< 0.54	ug/l	0.54	1.7	1	8260B		1/28/2016	CJR	1
1,2-Dichloropropane	< 0.43	ug/l	0.43	1.37	1	8260B		1/28/2016	CJR	1
2,2-Dichloropropane	< 3.1	ug/l	3.1	9.8	1	8260B		1/28/2016	CJR	1
1,3-Dichloropropane	< 0.42	ug/l	0.42	1.3	1	8260B		1/28/2016	CJR	1
Di-isopropyl ether	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
EDB (1,2-Dibromoethane)	< 0.63	ug/l	0.63	2	1	8260B		1/28/2016	CJR	1
Ethylbenzene	< 0.71	ug/l	0.71	2.3	1	8260B		1/28/2016	CJR	1
Hexachlorobutadiene	< 2.2	ug/l	2.2	7.1	1	8260B		1/28/2016	CJR	1
Isopropylbenzene	< 0.82	ug/l	0.82	2.6	1	8260B		1/28/2016	CJR	1
p-Isopropyltoluene	< 1.1	ug/l	1.1	3.5	1	8260B		1/28/2016	CJR	1
Methylene chloride	< 1.3	ug/l	1.3	4.2	1	8260B		1/28/2016	CJR	1
Methyl tert-butyl ether (MTBE)	< 1.1	ug/l	1.1	3.7	1	8260B		1/28/2016	CJR	1
Naphthalene	< 1.6	ug/l	1.6	5.2	1	8260B		1/28/2016	CJR	1
n-Propylbenzene	< 0.77	ug/l	0.77	2.4	1	8260B		1/28/2016	CJR	1
1,1,2,2-Tetrachloroethane	< 0.52	ug/l	0.52	1.7	1	8260B		1/28/2016	CJR	1
1,1,1,2-Tetrachloroethane	< 0.48	ug/l	0.48	1.5	1	8260B		1/28/2016	CJR	1
Tetrachloroethene	< 0.49	ug/l	0.49	1.5	1	8260B		1/28/2016	CJR	1
Toluene	< 0.44	ug/l	0.44	1.4	1	8260B		1/28/2016	CJR	1
1,2,4-Trichlorobenzene	< 1.7	ug/l	1.7	5.6	1	8260B		1/28/2016	CJR	1
1,2,3-Trichlorobenzene	< 2.7	ug/l	2.7	8.6	1	8260B		1/28/2016	CJR	1
1,1,1-Trichloroethane	< 0.84	ug/l	0.84	2.7	1	8260B		1/28/2016	CJR	1
1,1,2-Trichloroethane	< 0.48	ug/l	0.48	1.52	1	8260B		1/28/2016	CJR	1
Trichloroethene (TCE)	< 0.47	ug/l	0.47	1.5	1	8260B		1/28/2016	CJR	1
Trichlorofluoromethane	< 0.87	ug/l	0.87	2.8	1	8260B		1/28/2016	CJR	1
1,2,4-Trimethylbenzene	< 1.6	ug/l	1.6	5	1	8260B		1/28/2016	CJR	1
1,3,5-Trimethylbenzene	< 1.5	ug/l	1.5	4.8	1	8260B		1/28/2016	CJR	1
Vinyl Chloride	< 0.17	ug/l	0.17	0.54	1	8260B		1/28/2016	CJR	1
m&p-Xylene	< 2.2	ug/l	2.2	6.9	1	8260B		1/28/2016	CJR	1
o-Xylene	< 0.9	ug/l	0.9	2.9	1	8260B		1/28/2016	CJR	1
SUR - Toluene-d8	93	REC %			1	8260B		1/28/2016	CJR	1
SUR - 1,2-Dichloroethane-d4	100	REC %			1	8260B		1/28/2016	CJR	1
SUR - 4-Bromofluorobenzene	97	REC %			1	8260B		1/28/2016	CJR	1
SUR - Dibromofluoromethane	109	REC %			1	8260B		1/28/2016	CJR	1

Project Name MARON PROPERTY **Invoice #** E30377
Project #

"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*

CHAIN OF JSTODY RECORD

Synergy

Environmental Lab, Inc.

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

Chain # N2 2868

Page 1 of 1

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

Lab I.D. #
Account No. **Quote No.:**
Project #
Sampler (signature) [signature]
Project (Name / Location): Maron Property

Reports To: Karen Maron	Invoice To: Karen Maron c/o METCO
Company	Company
Address 7420 W. Drummond St.	Address 709 Gillette St., Suite 3
City State Zip Iron River, WI 54847	City State Zip La Crosse, WI 54603
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
503037A	Water's DW	1-21	1:30			N	3	GW	HCL
B	MW-4		3:00			Y	7		HNO3, HCL
C	MW-3		3:30						
D	MW-2		4:00						
E	MW-1		4:30						
F	TB						1		

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-RCRA METALS	Dissolved Iron	Dissolved Manganese					PID/ FID
503037A												X									
B			[redacted]	X		X				X			X		X	X					
C			[redacted]	X		X				X			X		X	X					
D			[redacted]	X		X				X			X		X	X					
E			[redacted]	X		X				X			X		X	X					
F													X								

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

Please send copy of report to METCO (Karen P.) (Invoice to METCO)

* Lower Status, Utc rates apply*

Sample Integrity - To be completed by receiving lab.	Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Method of Shipment: Driven	[signature]	11:30	1-22-16			
Temp. of Temp. Blank ____ °C On Ice: X						
Cooler seal intact upon receipt: X Yes ____ No	Received in Laboratory By: [signature]		Time: 10:00		Date: 1/23/16	

Synergy Environmental Lab,

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

KAREN MARON C/O METCO
KAREN MARON
7420 W. DRUMMOMD STREET
IRON RIVER, WI 54847

Report Date *15-Dec-15*

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133A
Sample ID MEOH BLANK
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/5/2015	CJR	I
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/5/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/5/2015	CJR	I
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		12/5/2015	CJR	I
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/5/2015	CJR	I
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/5/2015	CJR	I
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/5/2015	CJR	I
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/5/2015	CJR	I
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/5/2015	CJR	I

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133B
Sample ID HA-1
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	84.7	%			1	5021		12/3/2015	DJL	1
Organic										
PAH SIM										
Acenaphthene	0.158	mg/kg	0.0201	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Acenaphthylene	0.201	mg/kg	0.0198	0.062	1	M8270C	12/10/2015	12/11/2015	MDK	1
Anthracene	0.84	mg/kg	0.0171	0.054	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(a)anthracene	2.27	mg/kg	0.0191	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(a)pyrene	2.0	mg/kg	0.0143	0.045	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(b)fluoranthene	3.04	mg/kg	0.019	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(g,h,i)perylene	1.37	mg/kg	0.02	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(k)fluoranthene	1.07	mg/kg	0.0174	0.055	1	M8270C	12/10/2015	12/11/2015	MDK	1
Chrysene	2.04	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Dibenzo(a,h)anthracene	0.309	mg/kg	0.015	0.047	1	M8270C	12/10/2015	12/11/2015	MDK	1
Fluoranthene	3.9	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Fluorene	0.281	mg/kg	0.0184	0.058	1	M8270C	12/10/2015	12/11/2015	MDK	1
Indeno(1,2,3-cd)pyrene	1.17	mg/kg	0.0165	0.052	1	M8270C	12/10/2015	12/11/2015	MDK	1
1-Methyl naphthalene	0.107	mg/kg	0.0205	0.065	1	M8270C	12/10/2015	12/11/2015	MDK	1
2-Methyl naphthalene	0.080	mg/kg	0.0199	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	1
Naphthalene	0.086	mg/kg	0.0203	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Phenanthrene	2.93	mg/kg	0.0198	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	1
Pyrene	3.4	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/5/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/5/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/5/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/5/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/5/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/5/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/5/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/5/2015	CJR	1

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133C
Sample ID MW-1-1
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.6	%			1	5021		12/3/2015	DJL	1
Organic										
PAH SIM										
Acenaphthene	< 0.1005	mg/kg	0.1005	0.32	5	M8270C	12/10/2015	12/14/2015	MDK	1
Acenaphthylene	< 0.099	mg/kg	0.099	0.31	5	M8270C	12/10/2015	12/14/2015	MDK	1
Anthracene	0.118 "J"	mg/kg	0.0855	0.27	5	M8270C	12/10/2015	12/14/2015	MDK	1
Benzo(a)anthracene	0.38	mg/kg	0.0955	0.305	5	M8270C	12/10/2015	12/14/2015	MDK	1
Benzo(a)pyrene	0.195 "J"	mg/kg	0.0715	0.225	5	M8270C	12/10/2015	12/14/2015	MDK	1
Benzo(b)fluoranthene	0.65	mg/kg	0.095	0.305	5	M8270C	12/10/2015	12/14/2015	MDK	1
Benzo(g,h,i)perylene	0.185 "J"	mg/kg	0.1	0.32	5	M8270C	12/10/2015	12/14/2015	MDK	1
Benzo(k)fluoranthene	0.36	mg/kg	0.087	0.275	5	M8270C	12/10/2015	12/14/2015	MDK	1
Chrysene	0.49	mg/kg	0.096	0.305	5	M8270C	12/10/2015	12/14/2015	MDK	1
Dibenzo(a,h)anthracene	< 0.075	mg/kg	0.075	0.235	5	M8270C	12/10/2015	12/14/2015	MDK	1
Fluoranthene	0.87	mg/kg	0.096	0.305	5	M8270C	12/10/2015	12/14/2015	MDK	1
Fluorene	0.136 "J"	mg/kg	0.092	0.29	5	M8270C	12/10/2015	12/14/2015	MDK	1
Indeno(1,2,3-cd)pyrene	0.162 "J"	mg/kg	0.0825	0.26	5	M8270C	12/10/2015	12/14/2015	MDK	1
1-Methyl naphthalene	6.3	mg/kg	0.1025	0.325	5	M8270C	12/10/2015	12/14/2015	MDK	1
2-Methyl naphthalene	13.6	mg/kg	0.0995	0.315	5	M8270C	12/10/2015	12/14/2015	MDK	1
Naphthalene	14.3	mg/kg	0.1015	0.32	5	M8270C	12/10/2015	12/14/2015	MDK	1
Phenanthrene	0.82	mg/kg	0.099	0.315	5	M8270C	12/10/2015	12/14/2015	MDK	1
Pyrene	0.76	mg/kg	0.096	0.305	5	M8270C	12/10/2015	12/14/2015	MDK	1
PVOC										
Benzene	7.6	mg/kg	0.28	0.92	20	GRO95/8021		12/5/2015	CJR	1
Ethylbenzene	123	mg/kg	0.28	0.9	20	GRO95/8021		12/5/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.5	mg/kg	0.26	0.82	20	GRO95/8021		12/5/2015	CJR	1
Toluene	52	mg/kg	0.3	0.96	20	GRO95/8021		12/5/2015	CJR	1
1,2,4-Trimethylbenzene	350	mg/kg	0.22	0.72	20	GRO95/8021		12/5/2015	CJR	1
1,3,5-Trimethylbenzene	121	mg/kg	0.24	0.76	20	GRO95/8021		12/5/2015	CJR	1
m&p-Xylene	490	mg/kg	0.46	1.48	20	GRO95/8021		12/5/2015	CJR	1
o-Xylene	168	mg/kg	0.48	1.56	20	GRO95/8021		12/5/2015	CJR	1

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133D
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	88.9	%			1	5021		12/3/2015	DJL	I
Organic										
VOC's										
Benzene	< 0.8	mg/kg	0.8	2.45	50	8260B		12/10/2015	CJR	I
Bromobenzene	< 1.95	mg/kg	1.95	6	50	8260B		12/10/2015	CJR	I
Bromodichloromethane	< 0.75	mg/kg	0.75	2.4	50	8260B		12/10/2015	CJR	I
Bromoform	< 1.15	mg/kg	1.15	3.65	50	8260B		12/10/2015	CJR	I
tert-Butylbenzene	< 1.75	mg/kg	1.75	5.5	50	8260B		12/10/2015	CJR	I
sec-Butylbenzene	4.6 "J"	mg/kg	1.8	5.5	50	8260B		12/10/2015	CJR	I
n-Butylbenzene	25.9	mg/kg	4.3	13.5	50	8260B		12/10/2015	CJR	I
Carbon Tetrachloride	< 1.05	mg/kg	1.05	3.35	50	8260B		12/10/2015	CJR	I
Chlorobenzene	< 1.95	mg/kg	1.95	6	50	8260B		12/10/2015	CJR	I
Chloroethane	< 2.25	mg/kg	2.25	7	50	8260B		12/10/2015	CJR	I
Chloroform	< 1.3	mg/kg	1.3	4.05	50	8260B		12/10/2015	CJR	I
Chloromethane	< 12.5	mg/kg	12.5	39	50	8260B		12/10/2015	CJR	I
2-Chlorotoluene	< 1.45	mg/kg	1.45	4.65	50	8260B		12/10/2015	CJR	I
4-Chlorotoluene	< 1.6	mg/kg	1.6	5	50	8260B		12/10/2015	CJR	I
1,2-Dibromo-3-chloropropane	< 3.9	mg/kg	3.9	12.5	50	8260B		12/10/2015	CJR	I
Dibromochloromethane	< 1.55	mg/kg	1.55	4.9	50	8260B		12/10/2015	CJR	I
1,4-Dichlorobenzene	< 1.5	mg/kg	1.5	4.8	50	8260B		12/10/2015	CJR	I
1,3-Dichlorobenzene	< 1.5	mg/kg	1.5	4.85	50	8260B		12/10/2015	CJR	I
1,2-Dichlorobenzene	< 1.95	mg/kg	1.95	6	50	8260B		12/10/2015	CJR	I
Dichlorodifluoromethane	< 2.15	mg/kg	2.15	7	50	8260B		12/10/2015	CJR	I
1,2-Dichloroethane	< 1.5	mg/kg	1.5	4.8	50	8260B		12/10/2015	CJR	I
1,1-Dichloroethane	< 1.25	mg/kg	1.25	3.95	50	8260B		12/10/2015	CJR	I
1,1-Dichloroethene	< 1.45	mg/kg	1.45	4.65	50	8260B		12/10/2015	CJR	I
cis-1,2-Dichloroethene	< 1.05	mg/kg	1.05	3.4	50	8260B		12/10/2015	CJR	I
trans-1,2-Dichloroethene	< 1.2	mg/kg	1.2	3.8	50	8260B		12/10/2015	CJR	I
1,2-Dichloropropane	< 1.25	mg/kg	1.25	3.9	50	8260B		12/10/2015	CJR	I
2,2-Dichloropropane	< 5	mg/kg	5	16.5	50	8260B		12/10/2015	CJR	I
1,3-Dichloropropane	< 1.55	mg/kg	1.55	4.85	50	8260B		12/10/2015	CJR	I
Di-isopropyl ether	< 0.6	mg/kg	0.6	2	50	8260B		12/10/2015	CJR	I
EDB (1,2-Dibromoethane)	< 1.75	mg/kg	1.75	5.5	50	8260B		12/10/2015	CJR	I
Ethylbenzene	125	mg/kg	1.35	4.3	50	8260B		12/10/2015	CJR	I
Hexachlorobutadiene	< 5.5	mg/kg	5.5	18	50	8260B		12/10/2015	CJR	I
Isopropylbenzene	12.7	mg/kg	1.85	6	50	8260B		12/10/2015	CJR	I
p-Isopropyltoluene	< 2.8	mg/kg	2.8	9	50	8260B		12/10/2015	CJR	I
Methylene chloride	< 11	mg/kg	11	35	50	8260B		12/10/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 1.25	mg/kg	1.25	3.9	50	8260B		12/10/2015	CJR	I
Naphthalene	30.3	mg/kg	4.35	14	50	8260B		12/10/2015	CJR	I
n-Propylbenzene	66	mg/kg	1.75	5.5	50	8260B		12/10/2015	CJR	I
1,1,2,2-Tetrachloroethane	< 0.65	mg/kg	0.65	2	50	8260B		12/10/2015	CJR	I
1,1,1,2-Tetrachloroethane	< 1.45	mg/kg	1.45	4.65	50	8260B		12/10/2015	CJR	I
Tetrachloroethene	< 2.7	mg/kg	2.7	8.5	50	8260B		12/10/2015	CJR	I
Toluene	50	mg/kg	1.55	4.95	50	8260B		12/10/2015	CJR	I
1,2,4-Trichlorobenzene	< 4.25	mg/kg	4.25	13.5	50	8260B		12/10/2015	CJR	I
1,2,3-Trichlorobenzene	< 6	mg/kg	6	19	50	8260B		12/10/2015	CJR	I
1,1,1-Trichloroethane	< 2	mg/kg	2	6.5	50	8260B		12/10/2015	CJR	I
1,1,2-Trichloroethane	< 1.65	mg/kg	1.65	5.5	50	8260B		12/10/2015	CJR	I
Trichloroethene (TCE)	< 2.1	mg/kg	2.1	6.5	50	8260B		12/10/2015	CJR	I
Trichlorofluoromethane	< 3	mg/kg	3	9.5	50	8260B		12/10/2015	CJR	I
1,2,4-Trimethylbenzene	380	mg/kg	3.9	12.5	50	8260B		12/10/2015	CJR	I
1,3,5-Trimethylbenzene	125	mg/kg	4.45	14	50	8260B		12/10/2015	CJR	I
Vinyl Chloride	< 0.5	mg/kg	0.5	1.55	50	8260B		12/10/2015	CJR	I
m&p-Xylene	480	mg/kg	3.5	11	50	8260B		12/10/2015	CJR	I
o-Xylene	171	mg/kg	1.45	4.6	50	8260B		12/10/2015	CJR	I

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133D
Sample ID MW-1-2
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
SUR - Toluene-d8	100	Rec %			50	8260B		12/10/2015	CJR	1
SUR - 4-Bromofluorobenzene	110	Rec %			50	8260B		12/10/2015	CJR	1
SUR - Dibromofluoromethane	93	Rec %			50	8260B		12/10/2015	CJR	1
SUR - 1,2-Dichloroethane-d4	100	Rec %			50	8260B		12/10/2015	CJR	1

Lab Code 5030133E
Sample ID MW-1-3
Sample Matrix Soil
Sample Date 11/30/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.2	%			1	5021		12/3/2015	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	3.4	mg/kg	0.14	0.46	10	GRO95/8021		12/9/2015	CJR	1
Ethylbenzene	49	mg/kg	0.14	0.45	10	GRO95/8021		12/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.25	mg/kg	0.13	0.41	10	GRO95/8021		12/9/2015	CJR	1
Naphthalene	12.6	mg/kg	0.094	0.3	10	GRO95/8021		12/9/2015	CJR	1
Toluene	16.6	mg/kg	0.15	0.48	10	GRO95/8021		12/9/2015	CJR	1
1,2,4-Trimethylbenzene	155	mg/kg	0.11	0.36	10	GRO95/8021		12/9/2015	CJR	1
1,3,5-Trimethylbenzene	54	mg/kg	0.12	0.38	10	GRO95/8021		12/9/2015	CJR	1
m&p-Xylene	196	mg/kg	0.23	0.74	10	GRO95/8021		12/9/2015	CJR	1
o-Xylene	67	mg/kg	0.24	0.78	10	GRO95/8021		12/9/2015	CJR	1

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133F
Sample ID B-1-1
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.4	%			1	5021		12/3/2015	DJL	1
Organic										
PAH SIM										
Acenaphthene	< 0.0201	mg/kg	0.0201	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Acenaphthylene	< 0.0198	mg/kg	0.0198	0.062	1	M8270C	12/10/2015	12/11/2015	MDK	1
Anthracene	< 0.0171	mg/kg	0.0171	0.054	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(a)anthracene	< 0.0191	mg/kg	0.0191	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.045	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(b)fluoranthene	< 0.019	mg/kg	0.019	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(g,h,i)perylene	< 0.02	mg/kg	0.02	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Benzo(k)fluoranthene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	12/10/2015	12/11/2015	MDK	1
Chrysene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Dibenzo(a,h)anthracene	< 0.015	mg/kg	0.015	0.047	1	M8270C	12/10/2015	12/11/2015	MDK	1
Fluoranthene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
Fluorene	< 0.0184	mg/kg	0.0184	0.058	1	M8270C	12/10/2015	12/11/2015	MDK	1
Indeno(1,2,3-cd)pyrene	< 0.0165	mg/kg	0.0165	0.052	1	M8270C	12/10/2015	12/11/2015	MDK	1
1-Methyl naphthalene	< 0.0205	mg/kg	0.0205	0.065	1	M8270C	12/10/2015	12/11/2015	MDK	1
2-Methyl naphthalene	< 0.0199	mg/kg	0.0199	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	1
Naphthalene	< 0.0203	mg/kg	0.0203	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	1
Phenanthrene	< 0.0198	mg/kg	0.0198	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	1
Pyrene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	1
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/9/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/9/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/9/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/9/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/9/2015	CJR	1

Lab Code 5030133G
Sample ID B-1-2
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.9	%			1	5021		12/3/2015	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/9/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/9/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		12/9/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/9/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/9/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/9/2015	CJR	1

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133H
Sample ID B-1-3
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	86.9	%			1	5021		12/3/2015	DJL	I
Organic										
PVOC + Naphthalene										
Benzene	0.0295 "J"	mg/kg	0.014	0.046	1	GRO95/8021		12/5/2015	CJR	I
Ethylbenzene	0.169	mg/kg	0.014	0.045	1	GRO95/8021		12/5/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/5/2015	CJR	I
Naphthalene	0.179	mg/kg	0.0094	0.03	1	GRO95/8021		12/5/2015	CJR	I
Toluene	0.081	mg/kg	0.015	0.048	1	GRO95/8021		12/5/2015	CJR	I
1,2,4-Trimethylbenzene	0.92	mg/kg	0.011	0.036	1	GRO95/8021		12/5/2015	CJR	I
1,3,5-Trimethylbenzene	0.33	mg/kg	0.012	0.038	1	GRO95/8021		12/5/2015	CJR	I
m&p-Xylene	0.76	mg/kg	0.023	0.074	1	GRO95/8021		12/5/2015	CJR	I
o-Xylene	0.298	mg/kg	0.024	0.078	1	GRO95/8021		12/5/2015	CJR	I

Lab Code 5030133I
Sample ID B-2-1
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	89.7	%			1	5021		12/3/2015	DJL	I
Organic										
PAH SIM										
Acenaphthene	< 0.0201	mg/kg	0.0201	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	I
Acenaphthylene	< 0.0198	mg/kg	0.0198	0.062	1	M8270C	12/10/2015	12/11/2015	MDK	I
Anthracene	< 0.0171	mg/kg	0.0171	0.054	1	M8270C	12/10/2015	12/11/2015	MDK	I
Benzo(a)anthracene	< 0.0191	mg/kg	0.0191	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	I
Benzo(a)pyrene	< 0.0143	mg/kg	0.0143	0.045	1	M8270C	12/10/2015	12/11/2015	MDK	I
Benzo(b)fluoranthene	< 0.019	mg/kg	0.019	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	I
Benzo(g,h,i)perylene	< 0.02	mg/kg	0.02	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	I
Benzo(k)fluoranthene	< 0.0174	mg/kg	0.0174	0.055	1	M8270C	12/10/2015	12/11/2015	MDK	I
Chrysene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	I
Dibenzo(a,h)anthracene	< 0.015	mg/kg	0.015	0.047	1	M8270C	12/10/2015	12/11/2015	MDK	I
Fluoranthene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	I
Fluorene	< 0.0184	mg/kg	0.0184	0.058	1	M8270C	12/10/2015	12/11/2015	MDK	I
Indeno(1,2,3-cd)pyrene	< 0.0165	mg/kg	0.0165	0.052	1	M8270C	12/10/2015	12/11/2015	MDK	I
1-Methyl naphthalene	< 0.0205	mg/kg	0.0205	0.065	1	M8270C	12/10/2015	12/11/2015	MDK	I
2-Methyl naphthalene	< 0.0199	mg/kg	0.0199	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	I
Naphthalene	< 0.0203	mg/kg	0.0203	0.064	1	M8270C	12/10/2015	12/11/2015	MDK	I
Phenanthrene	< 0.0198	mg/kg	0.0198	0.063	1	M8270C	12/10/2015	12/11/2015	MDK	I
Pyrene	< 0.0192	mg/kg	0.0192	0.061	1	M8270C	12/10/2015	12/11/2015	MDK	I
PVOC										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/5/2015	CJR	I
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/5/2015	CJR	I
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/5/2015	CJR	I
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/5/2015	CJR	I
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/5/2015	CJR	I
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/5/2015	CJR	I
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/5/2015	CJR	I
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/5/2015	CJR	I

Project Name MARON PROPERTY **Invoice #** E30133
Project #

Lab Code 5030133J
Sample ID B-2-2
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	90.4	%			1	5021		12/3/2015	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/5/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/5/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/5/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		12/5/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/5/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/5/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/5/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/5/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/5/2015	CJR	1

Lab Code 5030133K
Sample ID B-2-3
Sample Matrix Soil
Sample Date 12/1/2015

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
General										
General										
Solids Percent	91.6	%			1	5021		12/3/2015	DJL	1
Organic										
PVOC + Naphthalene										
Benzene	< 0.025	mg/kg	0.014	0.046	1	GRO95/8021		12/9/2015	CJR	1
Ethylbenzene	< 0.025	mg/kg	0.014	0.045	1	GRO95/8021		12/9/2015	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.025	mg/kg	0.013	0.041	1	GRO95/8021		12/9/2015	CJR	1
Naphthalene	< 0.025	mg/kg	0.0094	0.03	1	GRO95/8021		12/9/2015	CJR	1
Toluene	< 0.025	mg/kg	0.015	0.048	1	GRO95/8021		12/9/2015	CJR	1
1,2,4-Trimethylbenzene	< 0.025	mg/kg	0.011	0.036	1	GRO95/8021		12/9/2015	CJR	1
1,3,5-Trimethylbenzene	< 0.025	mg/kg	0.012	0.038	1	GRO95/8021		12/9/2015	CJR	1
m&p-Xylene	< 0.05	mg/kg	0.023	0.074	1	GRO95/8021		12/9/2015	CJR	1
o-Xylene	< 0.025	mg/kg	0.024	0.078	1	GRO95/8021		12/9/2015	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.

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 3041
Page 1 of 2

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

Lab I.D. #:
Account No.: | Quote No.:
Project #:
Sampler: (signature) [signature]
Project (Name / Location): Maron Property

Reports To: Karen Maron	Invoice To: Karen Maron
Company	Company c/o METCO
Address 7420 W. Drummond St	Address 709 Gillette St Ste 3
City State Zip Iron River, WI 54847	City State Zip La Crosse, WI 54603
Phone (715) 372-5441	Phone (608) 781-8879
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection 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-RCRA METALS					PID/FID
5030133 A	Meth Blank	11/30					1		MeOH									X										
B	HA-1		12:30		X		3	S	/None						X		X											
C	MW-1-1		4:25				3		/None						X		X											
D	MW-1-2		4:35				2															X						
E	MW-1-3		4:45				2											X										
F	B-1-1	12/1	8:20				3		/None						X		X											
G	B-1-2		8:30				2											X										
H	B-1-3		8:35				2											X										
I	B-2-1		9:35				3		/None						X		X											
J	B-2-2		9:40				2											X										

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
UEC Rates
Agent Status

Sample Integrity - To be completed by receiving lab.
Method of Shipment: [signature]
Temp. of Temp. Blank ____ °C On Ice: X
Cooler seal intact upon receipt: X Yes ____ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
[signature]	7:00AM	12/2/15			

Received in Laboratory By: [signature] Time: 8:00 Date: 12/3/15

CHAIN OF CUSTODY RECORD

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

Chain # NL 3041
Page 2 of 2

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

Lab I.D. #
Account No. :
Quote No.:
Project #:
Sampler: (signature) Dan
Project (Name / Location): Maron Property
Reports To: See Page 1
Invoicing To:

Company	Company
Address	Address
City State Zip	City State Zip
Phone	Phone
FAX	FAX

Lab I.D.	Sample I.D.	Collection Date	Collection Time	Comp	Grab	Filtered Y/N	No. of Containers	Sample Type (Matrix)*	Preservation
1202134-8	B-2-3	12/1	9:45		X		2	S	MEOH

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-RCRA METALS	PID/FID
								X						

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

Sample Integrity - To be completed by receiving lab
Method of Shipment: Courier
Temp. of Temp. Blank: ___ °C On Ice: X
Cooler seal intact upon receipt: X Yes ___ No

Relinquished By: (sign)	Time	Date	Received By: (sign)	Time	Date
Dan	7:00 AM	12/2/15			

Received in Laboratory By: [signature] Time: 8:00 Date: 12/3/15

APPENDIX C/ WELL AND BOREHOLE DOCUMENTATION

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		MW-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	11/30/2015 MM/ DD/ YYYY	11/30/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VS814		MW-1	875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 43° 26' 3"	N E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

Sample 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: PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-1-1 2-4 ft	24 24	4,4,5,5	2–4	Gray sandy clay	CL		See Well Construction Form	450		M				Petro Odor
MW-1-2 6-8 ft	24 18	16,18,26 50/2	6–8	Gray sandy clay	CL			500		W				Petro Odor
MW-1-3 10-10.5 ft	6 4	50/4	10	Gray sandy clay with gravel	CL			200		W				Petro Odor
			12	Auger refusal @ 10.5 feet – Gray dolomite (10.5 to 13.5 feet)										
			14–24	EOB @ 13.5 Feet. Auger refusal @ 10.5 feet. Air rotary drilling from 10.5 to 13.5 feet. Installed MW-1 to 13 feet bgs.										

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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		MW-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	11/30/2015 MM/ DD/ YYYY	11/30/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VS812		MW-2	875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 43° 26' 3"	N	E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-2-1 2-4 ft	24 18	4,5,5,7	2	Tan fine to medium grained silty sand with gravel	SM		See Well Construction Form	0		M				No Petro Odor
MW-2-2 6-6.5 ft	6 6	14 50/3	4 6	Tan fine to medium grained silty sand	SM			0		M/W				No Petro Odor
			8 10 12	Auger refusal @ 7 feet – Cobbles and boulders (7-13 feet)										
			14	Gray dolomite (13-14.5 feet)										
			16 18 20 22 24	EOB @ 14.5 Feet. Auger refusal @ 7 feet. Air rotary drilling from 7 to 14.5 feet. Installed MW-2 to 14 feet bgs.										

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.

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		MW-3

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	11/30/2015 MM/ DD/ YYYY	11/30/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VS811		MW-3	875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location	
State Plane N, E	Lat 43° 26' 3"	N	E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S	Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
MW-3-1 2-4 ft	24 18	6,8,10,13	2–4	Tan sandy clay	CL		See Well Construction Form	0		M				No Petro Odor
MW-3-2 6-8 ft	24 18	7,9,11,14	6–8	Tan fine to medium grained sand with gravel	SP			0		W				No Petro Odor
MW-3-3 10-10.5 ft	6 6	18 50/3	10	Tan fine to medium grained sand with gravel	SP			0		W				No Petro Odor
			12	Auger refusal @ 10.5 feet – Gray dolomite (10.5 to 13.5 feet)										
			14–24	EOB @ 13.5 Feet. Auger refusal @ 10.5 feet. Air rotary drilling from 10.5 to 13.5 feet. Installed MW-3 to 13 feet bgs.										

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

Signature: Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		MW-4

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	11/30/2015 MM/ DD/ YYYY	11/30/2015 MM /DD/ YYYY	HSA/AR

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
VS810		MW-4	875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 43° 26' 3"	N E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

Sample: Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: U S C S	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
			2				See Well Construction Form							
MW-4-1 2-4 ft	24 12	2,2,3,3	4	Brown sandy clay (2-3 feet)	CL			0		M				No Petro Odor
				Tan fine to medium grained sand (3-4 feet)	SP									
MW-4-2 6-8 ft	24 12	6,6,8,12	6	Tan fine to medium grained sand with gravel	SP			0		W				No Petro Odor
			8											
MW-4-3 10-11 ft	12 12	6,8 50/3	10	Tan fine to medium grained sand with gravel	SP			0		W				No Petro Odor
			12	Auger refusal @ 11 feet – Gray dolomite (11 to 13.5 feet)										
			14	EOB @ 13.5 Feet. Auger refusal @ 11 feet. Air rotary drilling from 11 to 13.5 feet. Installed MW-4 to 13 feet bgs.										
			16											
			18											
			20											
			22											
			24											

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

Signature: Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		B-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	12/01/2015 MM/ DD/ YYYY	12/01/2015 MM /DD/ YYYY	HSA

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 43° 26' 3"	N E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

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
B-1-1 2-4 ft	24 24	4,5,5,6	2	Tan sandy clay	CL		See Well Construction Form	0		M				No Petro Odor
B-1-2 6-8 ft	24 18	5,8 50/4	6	Tan sandy clay	CL			30		M				Slight Petro Odor
B-1-3 10-10.5 ft	6 3	50/4	10	Gray sandy clay with gravel	CL			20		W				Slight Petro Odor
				EOB @ 10.5 Feet. Auger refusal @ 10.5 feet.										
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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

Signature: Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		B-2

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Craig Last: Plant Firm: Ground Source Inc	12/01/2015 MM/ DD/ YYYY	12/01/2015 MM /DD/ YYYY	HSA

WI Unique Well No. DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
		875 feet MSL	880 feet MSL	8"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 43° 26' 3"	N E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

Sample Number & Type	Length Att. & Recovered (in)	Blow Counts	Depth in Feet (below ground surface)	Soil / Rock Description And Geologic Origin For Each Major Unit	Soil Properties: USCS	Graphic Log	Well Diagram	PID / FID	Compressive Strength	Moisture Content	Liquid Limit	Plasticity Index	P 200	RQD / Comments
B-2-1 2-4 ft	24 18	4,6,6,7	2–4	Tan sandy clay	CL		See Well Construction Form	0		M				No Petro Odor
B-2-2 6-8 ft	24	8 50/2	6–8	Tan sandy clay	CL			0		M				No Petro Odor
B-2-3 10-10.5 ft	6	50/4	10	Tan fine to medium grained silty sand	SM			0		W				No Petro Odor
				EOB @ 10.5 Feet. Auger refusal @ 10.5 feet.										

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

Signature: Firm: METCO

State of Wisconsin
Department of Natural Resources

SOIL BORING LOG INFORMATION

Form 4400-122 Rev. 7-98

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

Facility / Project Name	License / Permit / Monitoring Number	Boring Number
Maron Property		HA-1

Boring Drilled By: Name of crew chief (first, last) and Firm	Drilling Date Started	Drilling Date Completed	Drilling Method
First: Eric Last: Dahl	11/30/2015	11/30/2015	Hand Auger
Firm: METCO	MM/ DD/ YYYY	MM /DD/ YYYY	

WI Unique Well No.	DNR Well ID No.	Well Name	Final Static Water Level	Surface Elevation	Borehole Diameter
			875 feet MSL	880 feet MSL	2"

Local Grid Origin (estimated X) or Boring Location		Local Grid Location
State Plane N, E	Lat 43° 26' 3"	N E
NW ¼ of SE ¼ of Section 7 , T11N, R14E	Long 88° 52' 21"	Feet S Feet W

Facility ID	County	County Code	Civil Town / City / Village
114109710	Dodge	14	Town of Beaver Dam

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-1 3 ft			2	Brown clay	CL			0		M				No Petro Odor
			4	EOB @ 3 Feet. Borehole abandoned.										
			6											
			8											
			10											
			12											
			14											
			16											
			18											
			20											
			22											
			24											

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

Signature: Firm: METCO

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

Facility/Project Name: Beaver Dam-Iron Rd	Local Grid Location of Well: _____ ft. ☐N ☐S _____ ft. ☐E ☐W	Well Name: MW-1
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VSB14 / DNR Well ID No.
Facility ID	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 11/30/2015 (m m d d y y y y)
Type of Well: Well Code MW	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Craig Platt / Ground Source
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL
B. Well casing, top elevation _____ ft. MSL
C. Land surface elevation _____ ft. MSL
D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☒ No

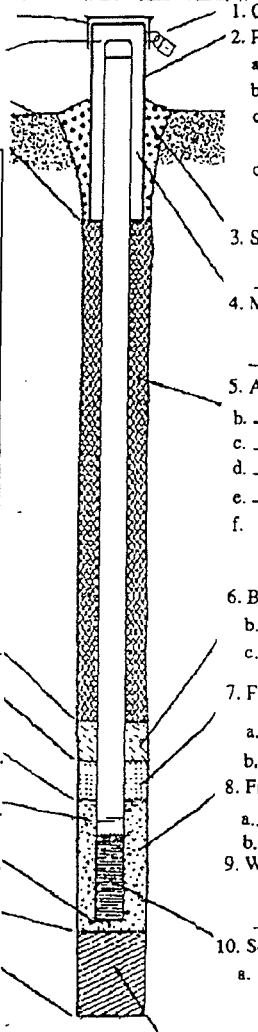
14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☒ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.
F. Fine sand, top _____ ft. MSL or 2.5 ft.
G. Filter pack, top _____ ft. MSL or 3 ft.
H. Screen joint, top _____ ft. MSL or 3 ft.
I. Well bottom _____ ft. MSL or 13 ft.
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.
K. Borehole, bottom _____ ft. MSL or 13.5 ft.
L. Borehole, diameter 6 in.
M. O.D. well casing 2.37 in.
N. I.D. well casing 2.03 in.



1. Cap and lock? ☒ Yes ☐ No
2. Protective cover pipe:
a. Inside diameter: 4 in.
b. Length: 3 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____
3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _____
4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____
5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08
6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____
7. Fine sand material: Manufacturer, product name & mesh size
a. 40/80 Badger Mining
b. Volume added 1.5 ft^3
8. Filter pack material: Manufacturer, product name & mesh size
a. 20/40 Badger Mining
b. Volume added 4 ft^3
9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____
10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.
11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature	Firm
Craig Platt	Ground Source

Please complete both Forms 4400-113A and 4400-113B and return them 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.

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

Facility/Project Name: Beaver Dam-Iron Rd	Local Grid Location of Well: ____ ft. ☐N ☐S ____ ft. ☐E ☐W	Well Name: MW-2
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VS812 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 12/1/2015 (m m d d y y y y)
Type of Well: Well Code MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Craig Hart / Ground Source
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known / Gov. Lot Number	

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐

15. Drilling fluid used: Water ☐ 02 / Air ☒ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 3 ft.

G. Filter pack, top _____ ft. MSL or 3.5 ft.

H. Screen joint, top _____ ft. MSL or 4 ft.

I. Well bottom _____ ft. MSL or 14 ft.

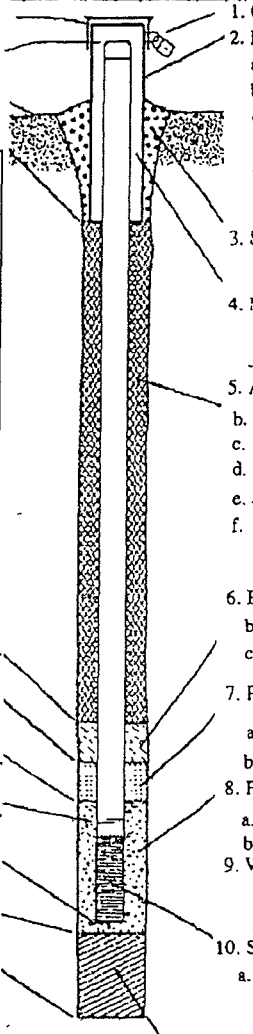
J. Filter pack, bottom _____ ft. MSL or 14.5 ft.

K. Borehole, bottom _____ ft. MSL or 14.5 ft.

L. Borehole, diameter 6 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.03 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐

7. Fine sand material: Manufacturer, product name & mesh size
a. 40/80 Badger Mining
b. Volume added 15 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. 20/40 Badger Mining
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐

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

Signature	Firm
Craig Hart	Ground Source

Please complete both Forms 4400-113A and 4400-113B and return them 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.

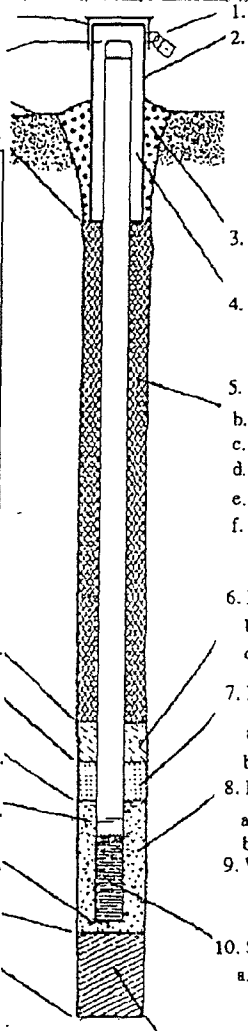
State of Wisconsin
Department of Natural Resources

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

MONITORING WELL CONSTRUCTION

Form 4400-113A Rev. 7-98

Facility/Project Name: Beaver Dam - Iron Rd	Local Grid Location of Well: ____ ft. ☐N. ☐S. ____ ft. ☐E. ☐W.	Well Name: MW-3
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VS811 / DNR Well ID No.
Facility ID	St. Plane ____ ft. N, ____ ft. E. S/C/N	Date Well Installed: 7 / 1 / 2015 (m m d d y y y y)
Type of Well — Well Code: MW	Section Location of Waste/Source: ____ 1/4 of ____ 1/4 of Sec. ____, T. ____ N, R. ____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Craig Hart / Ground Source
Distance from Waste/Source ____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number



A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☒ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No

Describe _____

17. Source of water (attach analysis, if required):

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter 6 in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.03 in.

1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ _____
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ _____

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ _____

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ _____

7. Fine sand material: Manufacturer, product name & mesh size
a. 40/80 Badger Mining
b. Volume added 15 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. 20/40 Badger Mining
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ _____

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ _____
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ _____

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

Signature	Firm
Craig Hart	Ground Source

Please complete both Forms 4400-113A and 4400-113B and return them 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.

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

Facility/Project Name: Beaver Dam-Iron Rd	Local Grid Location of Well: _____ ft. ☐N. ☐S. _____ ft. ☐E. ☐W.	Well Name: MW-4
Facility License, Permit or Monitoring No.	Local Grid Origin ☐ (estimated: ☐) or Well Location ☐ Lat. ° ' " Long. ° ' " or	Wis. Unique Well No.: VS810 / DNR Well ID No.: ___
Facility ID: ___	St. Plane _____ ft. N, _____ ft. E. S/C/N	Date Well Installed: 12/1/2015 (m m d d y y y y)
Type of Well: Well Code MW	Section Location of Waste/Source: _____ 1/4 of _____ 1/4 of Sec. _____, T. _____ N, R. _____ ☐E ☐W	Well Installed By: Name (first, last) and Firm: Craig Hart
Distance from Waste/Source _____ ft. / Enf. Stds. Apply ☐	Location of Well Relative to Waste/Source: u ☐ Upgradient s ☐ Sidegradient d ☐ Downgradient n ☐ Not Known	Gov. Lot Number: _____

A. Protective pipe, top elevation _____ ft. MSL

B. Well casing, top elevation _____ ft. MSL

C. Land surface elevation _____ ft. MSL

D. Surface seal, bottom _____ ft. MSL or 1 ft.

12. USCS classification of soil near screen:
GP ☐ GM ☐ GC ☐ GW ☐ SW ☐ SP ☐
SM ☐ SC ☐ ML ☐ MH ☐ CL ☐ CH ☐
Bedrock ☒

13. Sieve analysis performed? ☐ Yes ☒ No

14. Drilling method used: Rotary ☒ 50 / Hollow Stem Auger ☐ 41 / Other ☐ _____

15. Drilling fluid used: Water ☐ 02 / Air ☒ 01 / Drilling Mud ☐ 03 / None ☐ 99

16. Drilling additives used? ☐ Yes ☒ No
Describe _____

17. Source of water (attach analysis, if required):
_____

E. Bentonite seal, top _____ ft. MSL or 1 ft.

F. Fine sand, top _____ ft. MSL or 2.5 ft.

G. Filter pack, top _____ ft. MSL or 3 ft.

H. Screen joint, top _____ ft. MSL or 3 ft.

I. Well bottom _____ ft. MSL or 13 ft.

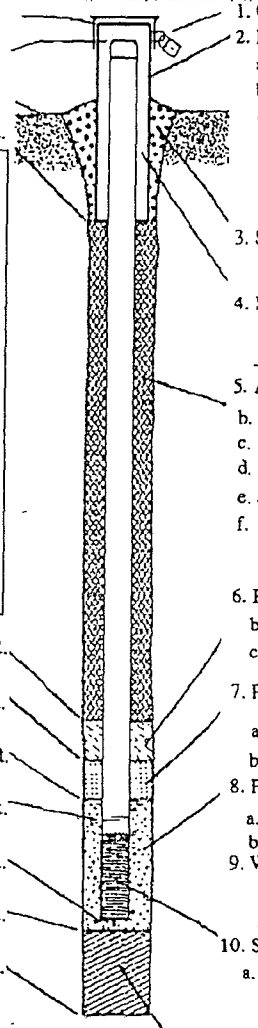
J. Filter pack, bottom _____ ft. MSL or 13.5 ft.

K. Borehole, bottom _____ ft. MSL or 13.5 ft.

L. Borehole, diameter _____ in.

M. O.D. well casing 2.37 in.

N. I.D. well casing 2.03 in.



1. Cap and lock? ☒ Yes ☐ No

2. Protective cover pipe:
a. Inside diameter: 8 in.
b. Length: 1 ft.
c. Material: Steel ☒ 04 / Other ☐ ___
d. Additional protection? ☐ Yes ☐ No
If yes, describe: _____

3. Surface seal: Bentonite ☒ 30 / Concrete ☐ 01 / Other ☐ ___

4. Material between well casing and protective pipe: Bentonite ☒ 30 / Other ☐ ___

5. Annular space seal: a. Granular/Chipped Bentonite ☒ 33
b. _____ Lbs/gal mud weight . . . Bentonite-sand slurry ☐ 35
c. _____ Lbs/gal mud weight . . . . . Bentonite slurry ☐ 31
d. _____ % Bentonite . . . . . Bentonite-cement grout ☐ 50
e. _____ Ft^3 volume added for any of the above
f. How installed: Tremie ☐ 01 / Tremie pumped ☐ 02 / Gravity ☒ 08

6. Bentonite seal: a. Bentonite granules ☐ 33
b. ☒ 1/4 in. ☐ 3/8 in. ☐ 1/2 in. Bentonite chips ☒ 32
c. _____ Other ☐ ___

7. Fine sand material: Manufacturer, product name & mesh size
a. 40/60 Badger Mining
b. Volume added 15 ft^3

8. Filter pack material: Manufacturer, product name & mesh size
a. 20/40 Badger Mining
b. Volume added 4 ft^3

9. Well casing: Flush threaded PVC schedule 40 ☒ 23 / Flush threaded PVC schedule 80 ☐ 24 / Other ☐ ___

10. Screen material: PVC
a. Screen type: Factory cut ☒ 11 / Continuous slot ☐ 01 / Other ☐ ___
b. Manufacturer Johnson
c. Slot size: 0.010 in.
d. Slotted length: 10 ft.

11. Backfill material (below filter pack): None ☒ 14 / Other ☐ ___
_____

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

Signature	Firm
Craig Hart	Ground Source

Please complete both Forms 4400-113A and 4400-113B and return them 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.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Maron Property	DODGE	MW-1

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	14	VS814	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	[X] 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 80 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 8.5 gal.

7. Volume of water removed from well 50 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 5.3 ft.	10.62 ft.
Date	b. 12 / 01 / 2015 (m m d d y y y y)	12 / 1 / 2015 (m m d d y y y y)
Time	c. 08 : 05 [X] a.m. ☐ p.m.	09 : 25 [X] a.m. ☐ p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) Gray	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	High Turbidity	Low Turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Eric Last Name: Dahl
Firm: METCO

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Karen Last Name: Maron
Facility/Firm: _____
Street: 7420 West Drummond Street
City/State/Zip: Iron River WI 54847-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Eric Dahl
Firm: METCO

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Maron Property	DODGE	MW-2

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	14	VS812	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	[X] 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 45 min.

4. Depth of well (from top of well casisng) 14.5 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 11.9 gal.

7. Volume of water removed from well 27 gal.

8. Volume of water added (if any) _____ gal.

9. Source of water added _____

10. Analysis performed on water added? ☐ Yes ☐ No
(If yes, attach results)

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 3.64 ft.	10.09 ft.
Date	b. 11 / 30 / 2015 (m m d d y y y y)	11 / 30 / 2015 (m m d d y y y y)
Time	c. 04 : 40 ☐ a.m. [X] p.m.	05 : 25 ☐ a.m. [X] p.m.
12. Sediment in well bottom	_____ inches	_____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) Tan	Clear [X] 20 Turbid ☐ 25 (Describe) Clear
	High Turbidity	Low Turbidity
14. Total suspended solids	_____ mg/l	_____ mg/l
15. COD	_____ mg/l	_____ mg/l

Fill in if drilling fluids were used and well is at solid waste facility:

16. Well developed by: Name (first, last) and Firm
First Name: Eric Last Name: Dahl
Firm: METCO

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Karen Last Name: Maron
Facility/Firm: _____
Street: 7420 West Drummond Street
City/State/Zip: Iron River WI 54847-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: [signature]
Print Name: Eric Dahl
Firm: METCO

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Maron Property	DODGE	MW-3

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	14	VS811	

1. Can this well be purged dry? [X] Yes ☐ No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	[X] 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 95 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 12.4 gal.

7. Volume of water removed from well 48 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 1.75 ft.	9.92 ft.
Date	b. 11 / 30 / 2015 (m m d d y y y y)	11 / 30 / 2015 (m m d d y y y y)
Time	c. 02 : 25 ☐ a.m. [X] p.m.	04 : 00 ☐ a.m. [X] p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15 (Describe) Tan, High Turbidity	Clear [X] 20 Turbid ☐ 25 (Describe) Clear, Low Turbidity
Fill in if drilling fluids were used and well is at solid waste facility:		
14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Eric Last Name: Dahl
Firm: METCO

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Karen Last Name: Maron
Facility/Firm: _____
Street: 7420 West Drummond Street
City/State/Zip: Iron River WI 54847-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Eric Dahl
Firm: METCO

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wisconsin
Department of Natural Resources

MONITORING WELL DEVELOPMENT

Form 4400-113B Rev. 7-98

Route to: Watershed/Wastewater ☐ Waste Management ☐
Remediation/Redevelopment [X] Other ☐ _____

Facility/Project Name	County Name	Well Name
Maron Property	DODGE	MW-4

Facility License, Permit or Monitoring Number	County Code	Wis. Unique Well Number	DNR Well ID Number
	14	VS810	

1. Can this well be purged dry? ☐ Yes X No

2. Well development method

surged with bailer and bailed	☐ 41
surged with bailer and pumped	[X] 61
surged with block and bailed	☐ 42
surged with block and pumped	☐ 62
surged with block, bailed and pumped	☐ 70
compressed air	☐ 20
bailed only	☐ 10
pumped only	☐ 51
pumped slowly	☐ 50
Other _____	☐

3. Time spent developing well 50 min.

4. Depth of well (from top of well casisng) 13 ft.

5. Inside diameter of well 2 in.

6. Volume of water in filter pack and well casing 12.8 gal.

7. Volume of water removed from well 75 gal.

8. Volume of water added (if any) ____ gal.

9. Source of water added _____

10. Analysis performed on water added? (If yes, attach results) ☐ Yes ☐ No

	Before Development	After Development
11. Depth to Water (from top of well casing)	a. 1.4 ft.	1.6 ft.
Date	b. 11 / 30 / 2015 (m m d d y y y y)	11 / 30 / 2015 (m m d d y y y y)
Time	c. 01 : 05 ☐ a.m. X p.m.	01 : 55 ☐ a.m. X p.m.
12. Sediment in well bottom	____ inches	____ inches
13. Water clarity	Clear ☐ 10 Turbid [X] 15	Clear [X] 20 Turbid ☐ 25
(Describe)	Tan	Clear
	High Turbidity	Low Turbidity

Fill in if drilling fluids were used and well is at solid waste facility:

14. Total suspended solids	____ mg/l	____ mg/l
15. COD	____ mg/l	____ mg/l

16. Well developed by: Name (first, last) and Firm
First Name: Eric Last Name: Dahl
Firm: METCO

17. Additional comments on development:

Name and Address of Facility Contact /Owner/Responsible Party
First Name: Karen Last Name: Maron
Facility/Firm: _____
Street: 7420 West Drummond Street
City/State/Zip: Iron River WI 54847-

I hereby certify that the above information is true and correct to the best of my knowledge.
Signature: _____
Print Name: Eric Dahl
Firm: METCO

NOTE: See instructions for more information including a list of county codes and well type codes.

State of Wis., Dept. of Natural Resources
dnr.wi.gov

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 [X] Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DODGE		

Latitude / Longitude (Degrees and Minutes) 43 ° 26 . ' N; 88 ° 52 . ' W — Method Code (see instructions):

¼ / ¼	¼	Section	Township	Range	
NW	SE	7	11 N	14	[X] E ☐ W

or Gov't Lot #

Well Street Address: W9468 Iron Rd

Well City, Village or Town	Well ZIP Code
Beaver Dam	53916-

Subdivision Name	Lot #

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

2. Facility / Owner Information

Facility Name: Maron Property

Facility ID (FID or PWS): 114109710

License/Permit/Monitoring #:

Original Well Owner: Karen Maron

Present Well Owner: Karen Maron

Mailing Address of Present Owner: 7420 W. Drummond St.

City of Present Owner	State	ZIP Code
Iron River	WI	54847-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/1/2015

If a Well Construction Report is available, please attach.

Construction Type: [X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10.5	

Lower Drillhole Diameter (in.)	Casing Depth (ft.)
8	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)?	Depth to Water (feet)

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

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	[X] Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material
☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) [X] 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:
[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite	Surface	10.5	263	

6. Comments

B-1

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl (METCO)		12/1/2015

Street or Route	Telephone Number
709 Gillette St, Ste.3	(608) 781-8879

City	State	ZIP Code	Signature of Person Doing Work	Date Signed
La Crosse	WI	54603-		1/11/2016

DNR Use Only

Date Received	Noted By

Comments:

State of Wis., Dept. of Natural Resources
dnr.wi.gov

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 [X] Remediation/Redevelopment ☐ Waste Management ☐ Other:

1. Well Location Information

County	WI Unique Well # of Removed Well	Hicap #
DODGE		

Lattitude / Longitude (Degrees and Minutes) | Method Code (see instructions)

43 ° 26 . ___ ___ ___ 'N

88 ° 52 . ___ ___ ___ 'W

¼ / ¼	¼	Section	Township	Range	
NW	SE	7	11 N	14	[X] E ☐ W

or Gov't Lot #

Well Street Address: W9468 Iron Rd

Well City, Village or Town: Beaver Dam | Well ZIP Code: 53916-

Subdivision Name | Lot #

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

2. Facility / Owner Information

Facility Name: Maron Property

Facility ID (FID or PWS): 114109710

License/Permit/Monitoring #

Original Well Owner: Karen Maron

Present Well Owner: Karen Maron

Mailing Address of Present Owner: 7420 W. Drummond St.

City of Present Owner: Iron River | State: WI | ZIP Code: 54847-

3. Well / Drillhole / Borehole Information

☐ Monitoring Well ☐ Water Well [X] Borehole / Drillhole

Original Construction Date (mm/dd/yyyy): 12/1/2015

If a Well Construction Report is available, please attach.

Construction Type: [X] Drilled ☐ Driven (Sandpoint) ☐ Dug ☐ Other (specify):

Formation Type: [X] Unconsolidated Formation ☐ Bedrock

Total Well Depth From Ground Surface (ft.)	Casing Diameter (in.)
10.5	
Lower Drillhole Diameter (in.)	**Casing Depth (ft.)**
8	

Was well annular space grouted? ☐ Yes ☐ No ☐ Unknown

If yes, to what depth (feet)? | Depth to Water (feet)

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

Pump and piping removed?	☐ Yes	☐ No	[X] N/A
Liner(s) removed?	☐ Yes	☐ No	[X] N/A
Screen removed?	☐ Yes	☐ No	[X] N/A
Casing left in place?	☐ Yes	☐ No	[X] N/A
Was casing cut off below surface?	☐ Yes	☐ No	[X] N/A
Did sealing material rise to surface?	[X] Yes	☐ No	☐ N/A
Did material settle after 24 hours?	☐ Yes	[X] No	☐ N/A
If yes, was hole retopped?	☐ Yes	☐ No	[X] N/A
If bentonite chips were used, were they hydrated with water from a known safe source?	[X] Yes	☐ No	☐ N/A

Required Method of Placing Sealing Material

☐ Conductor Pipe-Gravity ☐ Conductor Pipe-Pumped ☐ Screened & Poured (Bentonite Chips) [X] 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:

[X] Bentonite Chips ☐ Bentonite - Cement Grout
☐ Granular Bentonite ☐ Bentonite - Sand Slurry

5. Material Used To Fill Well / Drillhole

	From (ft.)	To (ft.)	Pounds	
Bentonite	Surface	10.5	263	

6. Comments

B-2

7. Supervision of Work

Name of Person or Firm Doing Filling & Sealing	License #	Date of Filling & Sealing (mm/dd/yyyy)
Eric Dahl (METCO)		12/1/2015

Street or Route	Telephone Number
709 Gillette St, Ste.3	(608) 781-8879

City	State	ZIP Code
La Crosse	WI	54603-

Signature of Person Doing Work

Date Signed: 1/11/2016

DNR Use Only

Date Received	Noted By

Comments

APPENDIX D/ WASTE DISPOSAL DOCUMENTATION

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

INVOICE

4-28 20 16

CUSTOMER: Karen Maron % Mtco
709 Gillette Street Ste 3
La Crosse WI 54603

JOB NAME: Maron Property
Brown Dam WI

☐ CASH ☐ CHECK # _____ ☒ IN-HOUSE ACCOUNT

QUANTITY DATE	QUANTITY SHIPPED	DESCRIPTION	QTY.	UNIT PRICE	AMOUNT
	1	Mobilization	1	287 70	287 70
	5	Haul soil drums to Advanced Disposal GL	5	108 15	540 75
	1	Haul water drum to Advanced Disposal GL	1	42 11	42 11
				TOTAL	870 56

Due upon receipt of invoice.
1.5% per month Service Charge (18% Annual Percentage Rate) will be added to past due accounts.

SIGNATURE _____

157

Inv. Waste Disposal
Reviewed 4/29/16
OK

APPENDIX E/ OTHER DOCUMENTATION

Petroleum Substance Discharged	Analysis of Samples Collected for UST Tank Closure Assessments	Solid Waste Program Requirements for Soils to be landfilled[5]	Site Investigation, Pretreatment and Posttreatment Sample Analysis[11]
Regular Gasoline	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO VOC/PVOC[15] Pb[12]
Unleaded Gasoline; Grades 80 100, and 100 LL (Low Lead) Aviation Fuel	GRO[2]	Free Liquids[6] GRO Benzene[7] Pb[7] Haz. Waste Deter.[8]	GRO PVOC
Diesel; Jet Fuels; and No's 1, 2, and 4 Fuel Oil	DRO[3]	Free Liquids[6] DRO Benzene[7] Haz. Waste Deter.[8]	DRO[3] PVOC PAH[13 14]
Crude Oil; Lubricating Oils; No. 6 Fuel Oil	DRO[3]	Free Liquids[6] DRO Haz. Waste Deter.[8]	DRO[3] PAH[13 14]
Unknown Petroleum	GRO[7] and DRO[3 4]	Free Liquids[6] GRO and DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	GRO and DRO[3 4] VOC/PVOC[15] PAH[13 14] Pb, Cd[12]
Waste Oil	DRO[3]	Free Liquids[6] DRO Pb, Cd[7] Haz. Waste Deter.[8] CN[19] S[2 10]	DRO[3] VOC/PVOC[15] PAH[13 14] PCBs[16] Pb, Cd[12]

Abbreviations:

GRO - Gasoline Range Organics, Determined by the Wisconsin Modified GRO Method

DRO - Diesel Range Organics, Determined by the Wisconsin Modified DRO Method

VOC - Volatile Organic Compounds (See Section 11.1 for a list of VOC compounds)

PVOC - Petroleum Organic Compounds (See Section 11.2 for a list of PVOC compounds)

PAH - Polynuclear Aromatic Hydrocarbons (See Section 11.3 for a list of the PAH compounds)

PCBs - Polychlorinated Biphenyls

Pb - Lead

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 1
SAMPLE & PRESERVATION REQUIREMENTS FOR WATER and DRINKING WATER SAMPLES

Test	Original Sample Container	Preserved	Holding Time to Analysis
WET CHEMISTRY			
Alkalinity SM2320B/EPA 310.2	250 mL HDPE	4°C	14 days
Ammonia EPA 350.1	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
BOD, cBOD SM5210B	500 ml HDPE	4°C	48 hrs.
COD EPA 410.4	500 ml HDPE	4°C, pH<2 with H_2SO_4	28 days
Chloride EPA 300.0/EPA 325.2	250 mL HDPE	4°C	28 days
Cyanide SW846 9012A/SM4500-CN-C	1000 mL HDPE	4°C, pH>12 with NaOH	14 days
Flashpoint SW846 1010	250 mL HDPE	4°C	28 days
Fluoride EPA 300.0	250 mL HDPE	4°C	28 days
Hardness SW846 6010B	250 mL HDPE	4°C, pH<2 with HNO_3	180 days
TKN EPA 351.2	1 Liter HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrate EPA 300.0	250 mL HDPE	4°C	48 hours
Nitrate+Nitrite EPA 300.0	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Nitrite EPA 300.0	250 mL HDPE	4°C	48 hours
Oil & Grease EPA 1664	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Organic Carbon SW846 9060/ EPA 415.1	40 ml Glass	4°C, pH<2 with H_2SO_4 or HCL	28 days
Phenol, Total EPA 420.1	1 Liter Glass	4°C, pH<2 with H_2SO_4	28 days
Phosphorus, Total EPA 365.3	250 mL HDPE	4°C, pH<2 with H_2SO_4	28 days
Sulfate EPA 300.0	250 mL HDPE	4°C	28 days
Total Dissolved Solids EPA 160.1	250 ml HDPE	4°C	7 days
Total Solids EPA 160.3	250 ml HDPE	4°C	7 days
Total Suspended Solids EPA 160.2	250 mL HDPE	4°C	7 days
METALS			
Metals	250 mL HDPE	4°C, pH<2 with HNO_3	6 months
Mercury SW8467470/EPA 245.1	250 mL HDPE	4°C, pH<2 with HNO_3	28 days
ORGANICS			
Semivolatiles SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted .	4°C	7 days extr. 40 days following extr
PAH SW846 8270C	1 Liter amber glass, collect 2 for one of the samples submitted	4°C	7 days extr. 40 days following extr
PCB SW846 8082	1 Liter amber glass, collect 2 for one of the samples submitted.	4°C	7 days extr. 40 days following extr
DRO, Modified DNR Sep 95	1 Liter amber glass with Teflon lined cap	4°C, 5 mL 50% HCl	7 days extr. 40 days following extr
VOC'S SW846 8260B/EPA524.2	(3) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl, No Headspace	14 days
GRO/VOC	(4) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO, Modified DNR Sep 95	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
GRO/PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days
PVOC	(2) 40 mL glass vials with Teflon lined septum caps	4°C, 0.5 mL 50% HCl prior to adding sample to jar	14 days

All samples are to be cooled to 4°C until tested.
HDPE = High Density Polyethylene.

SYNERGY ENVIRONMENTAL LAB – Sample Bottle Requirements

TABLE 2
SAMPLE & PRESERVATION REQUIREMENTS FOR SOIL SAMPLES

Test	Original Sample Container	Preserved	Holding Times from Date and Time of Collection			
			Solvent Addition	Shipping	Extraction	Analysis
METALS						
Metals	2 oz glass or soil cup	4°C	NA	NA	NA	180 days
Mercury SW846 7471	2 oz glass or soil cup	4°C	NA	NA	NA	28 days
Chromium Hexavalent SM3500-Cr	2 oz glass or soil cup	4°C	NA	NA	NA	24 hours
ORGANICS						
Any combinations of GRO, VOC, PVOC	1- tared VOC vial with 10 mls methanol, 13 grams of soil collected with syringe	4°C, 1:1 with methanol	Immediately	4 days	21 days	21 days
DRO, Modified	1- tared VOC vial, 13 grams of soil collected with syringe jar	4°C, Hexane	10 days	4 days	47 days	47 days
PAH, SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
Semivolatile SW846 8270C	2 oz glass untared	4°C	NA	NA	14 days	40 days
PCB SW846 8082	2 oz glass untared	4°C	NA	NA	14 days	40 days

All samples are to be cooled to 4°C until tested.

Residential setting. Not-To-Exceed D-C RCLs from web-calculator at: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search* (Chicago as climatic zone). Basis: **ca** = cancer; **nc** = non-cancer; **Csat** = soil saturation concentration; **ceiling** = 10%.

------> If web-calculator result or Csat exceeds 10% by weight (the **ceiling** limit concentration defined in RSL Users Guide), Not-to-Exceed D-C RCL defaults to 100,000 ppm.

1. ***Enter data in yellow cells.*** Numeric only values under "INPUT Site Data." For ND, use detection limit. Do not type '-', 'NA' nor 'space bar.' Leave purple cells "as is."

2. ***After completing data entry, See Summary in Row 872.***

Site Name:

Sample ID:

Contaminant	CAS Number	NC RCL (mg/kg)	C RCL (mg/kg)	Not-To-Exceed D-C RCL (mg/kg)	Basis	INPUT Site Data (mg/kg)	Comparison / Hazard Index / Cumulative Cancer Risk: Flag E = Individual Exceedance!	Hazard Quotient (HQ) from Data	Target CR used: 1.00E-06 Cancer Risk (CR) from Data
Benzene	71-43-2	111	1.49	1.49	ca				
Ethylbenzene	100-41-4	4220	7.47	7.47	ca				
Toluene	108-88-3	5300	-	818	Csat				
Xylenes	1330-20-7	890	-	258	Csat				
Methyl tert-Butyl Ether (MTBE)	1634-04-4	23800	59.4	59.4	ca				
Dichloroethane, 1,2-	107-06-2	46.7	0.61	0.61	ca				
Dibromoethane, 1,2-	106-93-4	107	0.05	0.05	ca				
Trimethylbenzene, 1,2,4-	95-63-6	89.8	-	89.8	nc				
Trimethylbenzene, 1,3,5-	108-67-8	782	-	182	Csat				
Naphthalene	91-20-3	188	5.15	5.15	ca				
Benzo[a]pyrene	50-32-8	-	0.01	0.01	ca				
Acenaphthene	83-32-9	3440	-	3440	nc				
Anthracene	120-12-7	17200	-	17200	nc				
Benz[a]anthracene	56-55-3	-	0.15	0.15	ca				
Benzo(j)fluoranthene	205-82-3	-	0.38	0.38	ca				
Benzo[b]fluoranthene	205-99-2	-	0.15	0.15	ca				
Benzo[k]fluoranthene	207-08-9	-	1.48	1.48	ca				
Chrysene	218-01-9	-	14.8	14.8	ca				
Dibenz[a,h]anthracene	53-70-3	-	0.01	0.01	ca				
Dibenzo(a,e)pyrene	192-65-4	-	0.04	0.04	ca				
Dimethylbenz(a)anthracene, 7,12-	57-97-6	-	0	0	ca				
Fluoranthene	206-44-0	2290	-	2290	nc				
Fluorene	86-73-7	2290	-	2290	nc				
Indeno[1,2,3-cd]pyrene	193-39-5	-	0.15	0.15	ca				
Methylnaphthalene, 1-	90-12-0	4010	15.6	15.6	ca				
Methylnaphthalene, 2-	91-57-6	229	-	229	nc				
Nitropyrene, 4-	57835-92-4	-	0.38	0.38	ca				
Pyrene	129-00-0	1720	-	1720	nc				
Lead and Compounds	7439-92-1	400	-	400	nc				

03-14-563925 Exceedance Count / Hazard Index / Cumulative Cancer Risk: 0 0.00E+00 0.0E+00

To Pass, data must meet all these criteria: Exceedance Count = 0 HI 1.00E+00 ≤ Cumulative CR ≤ 1e-05

Bottom-Line: Soil Data Entry Needed!

DRAFT

Residual Contaminant Levels Protective of Groundwater Quality

(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -->	2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance!	*Type BRRTS No. Here (If Known). Assess groundwater levels separately.*
Acetochlor	34256-82-1	-	7	5.58E-03		1.12E-02			
Acetone	67-64-1	-	9000	1.85E+00		3.69E+00			
Alachlor	15972-60-8	2	2	1.65E-03		3.30E-03			
Aldicarb	116-06-3	3	10	2.49E-03		4.99E-03			
Aluminum	7429-90-5	-	200	3.01E+02		6.01E+02			
Antimony	7440-36-0	6	6	2.71E-01		5.42E-01			
Anthracene	120-12-7	-	3000	9.84E+01		1.97E+02			
Arsenic	7440-38-2	10	10	2.92E-01		5.84E-01			
Atrazine, total chlorinated residues	1912-24-9	3	3	1.95E-03		3.90E-03			
Barium	7440-39-3	2000	2000	8.24E+01		1.65E+02			
Bentazon	25057-89-0	-	300	6.59E-02		1.32E-01			
Benzene	71-43-2	5	5	2.56E-03		5.12E-03			
Benzo(a)pyrene (PAH)	50-32-8	0.2	0.2	2.35E-01		4.70E-01			
Benzo(b)fluoranthene (PAH)	205-99-2	-	0.2	2.40E-01		4.80E-01			
Beryllium	7440-41-7	4	4	3.16E+00		6.32E+00			
Boron	7440-42-8	-	1000	3.20E+00		6.40E+00			
Bromodichloromethane (THM)	75-27-4	80	0.6	1.63E-04		3.26E-04			
Bromoform (THM)	75-25-2	80	4.4	1.17E-03		2.33E-03			
Bromomethane	74-83-9	-	10	2.53E-03		5.06E-03			
Butylate	2008-41-5	-	400	3.88E-01		7.76E-01			
Cadmium	7440-43-9	5	5	3.76E-01		7.52E-01			
Carbaryl	63-25-2	-	40	3.64E-02		7.27E-02			
Carbofuran	1563-66-2	40	40	1.56E-02		3.12E-02			
Carbon disulfide	75-15-0	-	1000	2.97E-01		5.93E-01			
Carbon tetrachloride	56-23-5	5	5	1.94E-03		3.88E-03			
Chloramben	133-90-4	-	150	3.63E-02		7.27E-02			
Chlorodifluoromethane	75-45-6	-	7000	2.89E+00		5.79E+00			
Chloroethane	75-00-3	-	400	1.13E-01		2.27E-01			
Chloroform (THM)	67-66-3	80	6	1.67E-03		3.33E-03			
Chlorpyrifos	2921-88-2	-	2	2.95E-02		5.90E-02			
Chloromethane	74-87-3	-	30	7.76E-03		1.55E-02			
Chromium (total)	7440-47-3	100	100	1.80E+05		3.60E+05			Re-assess if Cr-VI present
Chrysene (PAH)	218-01-9	-	0.2	7.25E-02		1.45E-01			
Cobalt	7440-48-4	-	40	1.81E+00		3.62E+00			
Copper	7440-50-8	1300	1300	4.58E+01		9.16E+01			
Cyanazine	21725-46-2	-	1	4.68E-04		9.37E-04			
Cyanide, free	57-12-5	200	200	2.02E+00		4.04E+00			
Dacthal (DCPA)	1861-32-1	-	70	8.56E-02		1.71E-01			
1,2-Dibromoethane	106-93-4	0.05	0.05	1.41E-05		2.82E-05			
Dibromochloromethane (THM)	124-48-1	80	60	1.60E-02		3.20E-02			
1,2-Dibromo-3-chloropropane (DBCP)	96-12-8	0.2	0.2	8.64E-05		1.73E-04			
Dibutyl phthalate	84-74-2	-	1000	2.52E+00		5.04E+00			
Dicamba	1918-00-9	-	300	7.76E-02		1.55E-01			
1,2-Dichlorobenzene	95-50-1	600	600	5.84E-01		1.17E+00			
1,3-Dichlorobenzene	541-73-1	-	600	5.76E-01		1.15E+00			
1,4-Dichlorobenzene	106-46-7	75	75	7.20E-02		1.44E-01			
Dichlorodifluoromethane	75-71-8	-	1000	1.54E+00		3.08E+00			
1,1-Dichloroethane	75-34-3	-	850	2.42E-01		4.84E-01			
1,2-Dichloroethane	107-06-2	5	5	1.42E-03		2.84E-03			
1,1-Dichloroethylene	75-35-4	7	7	2.51E-03		5.02E-03			
1,2-Dichloroethylene (cis)	156-59-2	70	70	2.06E-02		4.12E-02			
1,2-Dichloroethylene (trans)	156-60-5	100	100	2.94E-02		5.88E-02			
2,4-Dichlorophenoxyacetic acid (2,4-D)	94-75-7	70	70	1.81E-02		3.62E-02			
1,2-Dichloropropane	78-87-5	5	5	1.66E-03		3.32E-03			
1,3-Dichloropropene (cis/trans) (Telone)	542-75-6	-	0.4	1.43E-04		2.85E-04			
Di (2-ethylhexyl) phthalate	117-81-7	6	6	1.44E+00		2.88E+00			
Dimethoate	60-51-5	-	2	4.51E-04		9.02E-04			
2,4-Dinitrotoluene	121-14-2	-	0.05	6.76E-05		1.35E-04			
2,6-Dinitrotoluene	606-20-2	-	0.05	6.88E-05		1.38E-04			
Dinitrotoluene, Total Residues	25321-14-6	-	0.05	6.89E-05		1.38E-04			
Dinoseb	88-85-7	7	7	6.15E-02		1.23E-01			
1,4-Dioxane (p-dioxane)	123-91-1	-	3	6.18E-04		1.24E-03			
Dioxin (2,3,7,8-TCDD)	1746-01-6	0	0	1.50E-05		3.00E-05			
Endrin	72-20-8	2	2	8.08E-02		1.62E-01			
EPTC	759-94-4	-	250	1.32E-01		2.64E-01			
Ethylbenzene	100-41-4	700	700	7.85E-01		1.57E+00			
Ethyl Ether (Diethyl Ether)	60-29-7	-	1000	2.24E-01		4.47E-01			
Ethylene glycol	107-21-1	-	14000	2.82E+00		5.64E+00			
Fluoranthene	206-44-0	-	400	4.44E+01		8.88E+01			
Fluorene (PAH)	86-73-7	-	400	7.41E+00		1.48E+01			

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Residual Contaminant Levels Protective of Groundwater Quality
(Soil-to-Groundwater Scenario Results from: *http://epa-prgs.ornl.gov/cgi-bin/chemicals/csl_search*)

NR140 Substance	NR 140 CAS	Fed MCL (ug/l) (If Red, MCL>ES)	NR 140 ES (ug/l)	RCL-gw (mg/kg) DF=1	Use 2, or input the calculated site-specific DF -->	2.00	INPUT NUMERIC Site Data Max (mg/kg)	Flag E = Individual Exceedance!
Fluoride	7782-41-4	4000	4000	6.01E+02		1.20E+03		
Fluorotrichloromethane	75-69-4	-	3490	2.23E+00		4.47E+00		
Formaldehyde	50-00-0	-	1000	2.02E-01		4.04E-01		
Heptachlor	76-44-8	0.4	0.4	3.31E-02		6.62E-02		
Heptachlor epoxide	1024-57-3	0.2	0.2	4.08E-03		8.16E-03		
Hexachlorobenzene	118-74-1	1	1	1.26E-02		2.52E-02		
n-Hexane	110-54-3	-	600	4.22E+00		8.44E+00		
Lead	7439-92-1	15	15	1.35E+01		2.70E+01		
Lindane	58-89-9	0.2	0.2	1.16E-03		2.32E-03		
Manganese	7439-96-5	-	300	1.96E+01		3.91E+01		
Mercury	7439-97-6	2	2	1.04E-01		2.08E-01		
Methanol	67-56-1	-	5000	1.01E+00		2.03E+00		
Methoxychlor	72-43-5	40	40	2.16E+00		4.32E+00		
Methylene chloride	75-09-2	5	5	1.28E-03		2.56E-03		
Methyl ethyl ketone (MEK)	78-93-3	-	4000	8.39E-01		1.68E+00		
Methyl isobutyl ketone (MIBK)	108-10-1	-	500	1.13E-01		2.26E-01		
Methyl tert-butyl ether (MTBE)	1634-04-4	-	60	1.35E-02		2.70E-02		
Metolachlor/s-Metolachlor	51218-45-2	-	100	1.17E-01		2.34E-01		
Metribuzin	21087-64-9	-	70	2.14E-02		4.28E-02		
Molybdenum	7439-98-7	-	40	8.08E-01		1.62E+00		
Monochlorobenzene	108-90-7	100	100	6.79E-02		1.36E-01		
Naphthalene	91-20-3	-	100	3.29E-01		6.59E-01		
Nickel	7440-02-0	-	100	6.50E+00		1.30E+01		
N-Nitrosodiphenylamine (NDPA)	86-30-6	-	7	3.82E-02		7.64E-02		
Pentachlorophenol (PCP)	87-86-5	1	1	1.01E-02		2.02E-02		
Phenol	108-95-2	-	2000	1.15E+00		2.30E+00		
Picloram	1918-02-1	500	500	1.39E-01		2.78E-01		
Polychlorinated biphenyls (PCBs)	1336-36-3	0.5	0.03	4.69E-03		9.38E-03		
Prometon	1610-18-0	-	100	4.75E-02		9.49E-02		
Propazine	139-40-2	-	10	8.86E-03		1.77E-02		
Pyrene (PAH)	129-00-0	-	250	2.72E+01		5.45E+01		
Pyridine	110-86-1	-	10	3.44E-03		6.87E-03		
Selenium	7782-49-2	50	50	2.60E-01		5.20E-01		
Silver	7440-22-4	-	50	4.25E-01		8.50E-01		
Simazine	122-34-9	4	4	1.97E-03		3.94E-03		
Styrene	100-42-5	100	100	1.10E-01		2.20E-01		
Tertiary Butyl Alcohol (TBA)	75-65-0	-	12	2.45E-03		4.90E-03		
1,1,1,2-Tetrachloroethane	630-20-6	-	70	2.67E-02		5.33E-02		
1,1,2,2-Tetrachloroethane	79-34-5	-	0.2	7.80E-05		1.56E-04		
Tetrachloroethylene (PCE)	127-18-4	5	5	2.27E-03		4.54E-03		
Tetrahydrofuran	109-99-9	-	50	1.11E-02		2.22E-02		
Thallium	7440-28-0	2	2	1.42E-01		2.84E-01		
Toluene	108-88-3	1000	800	5.54E-01		1.11E+00		
Toxaphene	8001-35-2	3	3	4.64E-01		9.28E-01		
1,2,4-Trichlorobenzene	120-82-1	70	70	2.04E-01		4.08E-01		
1,1,1-Trichloroethane	71-55-6	200	200	7.01E-02		1.40E-01		
1,1,2-Trichloroethane	79-00-5	5	5	1.62E-03		3.24E-03		
Trichloroethylene (TCE)	79-01-6	5	5	1.79E-03		3.58E-03		
2,4,5-Trichlorophenoxypropionic acid (2,4,5-TP/Silvex)	93-72-1	50	50	2.75E-02		5.50E-02		
1,2,3-Trichloropropane	96-18-4	-	60	2.60E-02		5.20E-02		
Trifluralin	1582-09-8	-	7.5	2.48E-01		4.95E-01		
Trimethylbenzenes (1,2,4- and 1,3,5- combined)	95-63-6 / 108-67-8	-	480	6.90E-01		1.38E+00		
Vanadium	7440-62-2							
Vinyl chloride	75-01-4	2	0.2	6.90E-05		1.38E-04		
Xylenes (m-, o-, p- combined)	1330-20-7	10000	2000	1.97E+00		3.94E+00		

Type BRRTS No. Here (If Known). Assess groundwater levels separately.

No RSL result for: Asbestos; Bacteria; 1,3-DCB; Hydrogen Sulfide; Nitrate/Nitrite; Tetrahydrofuran; Perchlorate.

Only use DAF=2 (or site-specific DAF) RCL after clearly defining gw plume. RCL < 0.0001 ppm is in "E" notation.

Site-specific

Resident Equation Inputs for Soil

Variable	Value
THQ (target hazard quotient) unitless	1
TR (target risk) unitless	1.0E-6
LT (lifetime) year	70
ET_{res} (exposure time) hour	24
ET_{res-c} (child exposure time) hour	24
ET_{res-a} (adult exposure time) hour	24
ET_{0-2} (mutagenic exposure time) hour	24
ET_{2-6} (mutagenic exposure time) hour	24
ET_{6-16} (mutagenic exposure time) hour	24
ET_{16-26} (mutagenic exposure time) hour	24
ED_{res} (exposure duration) year	26
ED_{res-c} (exposure duration - child) year	6
ED_{res-a} (exposure duration - adult) year	20
ED_{0-2} (mutagenic exposure duration) year	2
ED_{2-6} (mutagenic exposure duration) year	4
ED_{6-16} (mutagenic exposure duration) year	10
ED_{16-26} (mutagenic exposure duration) year	10
BW_{res-c} (body weight - child) kg	15
BW_{res-a} (body weight - adult) kg	80
BW_{0-2} (mutagenic body weight) kg	15
BW_{2-6} (mutagenic body weight) kg	15
BW_{6-16} (mutagenic body weight) kg	80
BW_{16-26} (mutagenic body weight) kg	80
SA_{res-c} (skin surface area - child) cm^2/day	2373
SA_{res-a} (skin surface area - adult) cm^2/day	6032
SA_{0-2} (mutagenic skin surface area) cm^2/day	2373
SA_{2-6} (mutagenic skin surface area) cm^2/day	2373
SA_{6-16} (mutagenic skin surface area) cm^2/day	6032
SA_{16-26} (mutagenic skin surface area) cm^2/day	6032
EF_{res} (exposure frequency) day/year	350
EF_{res-c} (exposure frequency - child) day/year	350
EF_{res-a} (exposure frequency - adult) day/year	350
EF_{0-2} (mutagenic exposure frequency) day/year	350

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Site-specific

Resident Equation Inputs for Soil

Variable	Value
EF_{2-6} (mutagenic exposure frequency) day/year	350
EF_{6-16} (mutagenic exposure frequency) day/year	350
EF_{16-26} (mutagenic exposure frequency) day/year	350
$IFS_{res-adj}$ (age-adjusted soil ingestion factor) mg/kg	36750
$IFSM_{res-adj}$ (mutagenic age-adjusted soil ingestion factor) mg/kg	166833.33
IRS_{res-c} (soil intake rate - child) mg/day	200
IRS_{res-a} (soil intake rate - adult) mg/day	100
IRS_{0-2} (mutagenic soil intake rate) mg/day	200
IRS_{2-6} (mutagenic soil intake rate) mg/day	200
IRS_{6-16} (mutagenic soil intake rate) mg/day	100
IRS_{16-26} (mutagenic soil intake rate) mg/day	100
AF_{res-a} (skin adherence factor - adult) mg/cm ^{2}	0.07
AF_{res-c} (skin adherence factor - child) mg/cm ^{2}	0.2
AF_{0-2} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{2-6} (mutagenic skin adherence factor) mg/cm ^{2}	0.2
AF_{6-16} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
AF_{16-26} (mutagenic skin adherence factor) mg/cm ^{2}	0.07
$DFS_{res-adj}$ (age-adjusted soil dermal factor) mg/kg	103390
$DFSM_{res-adj}$ (mutagenic age-adjusted soil dermal factor) mg/kg	428260
City (Climate Zone) PEF Selection	Chicago, IL (7)
A_s (acres)	.5
Q/C_{wp} (g/m^2-s per kg/m^3)	98.430714368855
PEF (particulate emission factor) m ^{3}/kg	1560521176.9649
A (PEF Dispersion Constant)	16.8653
B (PEF Dispersion Constant)	18.7848
C (PEF Dispersion Constant)	215.0624
V (fraction of vegetative cover) unitless	0.5
U_m (mean annual wind speed) m/s	4.65
U_t (equivalent threshold value)	11.32
F(x) (function dependant on U_m/U_t) unitless	0.182
City (Climate Zone) VF Selection	Chicago, IL (7)
A_s (acres)	.5
Q/C_{vol} (g/m^2-s per kg/m^3)	98.430714368855

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Site-specific

Resident Equation Inputs for Soil

Variable	Value
foc (fraction organic carbon in soil) g/g	0.006
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
ρ$_s$ (soil particle density) g/cm ^{3}	2.65
n (total soil porosity) L_{pore}/L_{soil}	0.43396
θ$_a$ (air-filled soil porosity) L_{air}/L_{soil}	0.28396
θ$_w$ (water-filled soil porosity) L_{water}/L_{soil}	0.15
T (exposure interval) s	819936000
A (VF Dispersion Constant)	16.8653
B (VF Dispersion Constant)	18.7848
C (VF Dispersion Constant)	215.0624
City (Climate Zone) VF_{ml} Selection	Chicago, IL (7)
VF_s (volitization factor) m ^{3}/kg	.
Q/C_{vol} (g/m^2-s per kg/m^3)	98.430714368855
A_c (acres)	.5
T (exposure interval) yr	26
d_e (depth of source) m	.
ρ$_b$ (dry soil bulk density) g/cm ^{3}	1.5
A (VF Dispersion Constant - Mass Limit)	16.8653
B (VF Dispersion Constant - Mass Limit)	18.7848
C (VF Dispersion Constant - Mass Limit)	215.0624

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	CAS Number	Mutagen?	VOC?	Ingestion SF (mg/kg-day)$^{-1}$	SFO Ref	Inhalation Unit Risk (ug/m^3)$^{-1}$	IUR Ref	Chronic RfD (mg/kg-day)	Chronic RfD Ref	Chronic RfC (mg/m^3)	Chronic RfC Ref
Benzene	71-43-2	No	Yes	5.50E-02	I	7.80E-06	I	4.00E-03	I	3.00E-02	I
Dibromoethane, 1,2-	106-93-4	No	Yes	2.00E+00	I	6.00E-04	I	9.00E-03	I	9.00E-03	I
Dichloroethane, 1,2-	107-06-2	No	Yes	9.10E-02	I	2.60E-05	I	6.00E-03	S	7.00E-03	P
Ethylbenzene	100-41-4	No	Yes	1.10E-02	C	2.50E-06	C	1.00E-01	I	1.00E+00	I
Lead and Compounds	7439-92-1	No	No	-		-		-		-	
Methyl tert-Butyl Ether (MTBE)	1634-04-4	No	Yes	1.80E-03	C	2.60E-07	C	-		3.00E+00	I
Acenaphthene	83-32-9	No	Yes	-		-		6.00E-02	I	-	
Anthracene	120-12-7	No	Yes	-		-		3.00E-01	I	-	
Benz[a]anthracene	56-55-3	Yes	Yes	7.30E-01	W	1.10E-04	C	-		-	
Benzo(j)fluoranthene	205-82-3	No	No	1.20E+00	C	1.10E-04	C	-		-	
Benzo[a]pyrene	50-32-8	Yes	No	7.30E+00	I	1.10E-03	C	-		-	
Benzo[b]fluoranthene	205-99-2	Yes	No	7.30E-01	W	1.10E-04	C	-		-	
Benzo[k]fluoranthene	207-08-9	Yes	No	7.30E-02	W	1.10E-04	C	-		-	
Chrysene	218-01-9	Yes	No	7.30E-03	W	1.10E-05	C	-		-	
Dibenz[a,h]anthracene	53-70-3	Yes	No	7.30E+00	W	1.20E-03	C	-		-	
Dibenzo(a,e)pyrene	192-65-4	No	No	1.20E+01	C	1.10E-03	C	-		-	
Dimethylbenz(a)anthracene, 7,12-	57-97-6	Yes	No	2.50E+02	C	7.10E-02	C	-		-	
Fluoranthene	206-44-0	No	No	-		-		4.00E-02	I	-	
Fluorene	86-73-7	No	Yes	-		-		4.00E-02	I	-	
Indeno[1,2,3-cd]pyrene	193-39-5	Yes	No	7.30E-01	W	1.10E-04	C	-		-	
Methylnaphthalene, 1-	90-12-0	No	Yes	2.90E-02	P	-		7.00E-02	A	-	
Methylnaphthalene, 2-	91-57-6	No	Yes	-		-		4.00E-03	I	-	
Naphthalene	91-20-3	No	Yes	-		3.40E-05	C	2.00E-02	I	3.00E-03	I
Nitropyrene, 4-	57835-92-4	No	No	1.20E+00	C	1.10E-04	C	-		-	
Pyrene	129-00-0	No	Yes	-		-		3.00E-02	I	-	
Toluene	108-88-3	No	Yes	-		-		8.00E-02	I	5.00E+00	I
Trimethylbenzene, 1,2,4-	95-63-6	No	Yes	-		-		-		7.00E-03	P
Trimethylbenzene, 1,3,5-	108-67-8	No	Yes	-		-		1.00E-02	S	-	
Xylenes	1330-20-7	No	Yes	-		-		2.00E-01	I	1.00E-01	I

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 Factor (m^3/kg)	Soil Saturation Concentration (mg/kg)	Particulate Emission Factor (m^3/kg)	Ingestion SL TR=1.0E-6 (mg/kg)	Dermal SL TR=1.0E-6 (mg/kg)	Inhalation SL TR=1.0E-6 (mg/kg)	Carcinogenic 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	-	-	-	-

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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	Ingestion SL Child THQ=1 (mg/kg)	Dermal SL Child THQ=1 (mg/kg)	Inhalation SL Child THQ=1 (mg/kg)	Noncarcinogenic SL Child THI=1 (mg/kg)	Ingestion SL Adult THQ=1 (mg/kg)	Dermal SL Adult THQ=1 (mg/kg)	Inhalation SL Adult THQ=1 (mg/kg)	Noncarcinogenic SL Adult THI=1 (mg/kg)	Screening Level (mg/kg)
Benzene	3.13E+02	-	1.60E+02	1.06E+02	3.34E+03	-	1.60E+02	1.52E+02	1.60E+00 ca*
Dibromoethane, 1,2-	7.04E+02	-	1.17E+02	1.00E+02	7.51E+03	-	1.17E+02	1.15E+02	5.00E-02 ca
Dichloroethane, 1,2-	4.69E+02	-	4.82E+01	4.37E+01	5.01E+03	-	4.82E+01	4.77E+01	6.52E-01 ca*
Ethylbenzene	7.82E+03	-	8.53E+03	4.08E+03	8.34E+04	-	8.53E+03	7.74E+03	8.02E+00 ca
Lead and Compounds	-	-	-	-	-	-	-	-	4.00E+02 nc
Methyl tert-Butyl Ether (MTBE)	-	-	2.21E+04	2.21E+04	-	-	2.21E+04	2.21E+04	6.38E+01 ca
Acenaphthene	4.69E+03	1.52E+04	-	3.59E+03	5.01E+04	9.12E+04	-	3.23E+04	3.59E+03 nc
Anthracene	2.35E+04	7.61E+04	-	1.79E+04	2.50E+05	4.56E+05	-	1.62E+05	1.79E+04 nc
Benz[a]anthracene	-	-	-	-	-	-	-	-	1.57E-01 ca
Benzo(j)fluoranthene	-	-	-	-	-	-	-	-	4.24E-01 ca
Benzo[a]pyrene	-	-	-	-	-	-	-	-	1.57E-02 ca
Benzo[b]fluoranthene	-	-	-	-	-	-	-	-	1.57E-01 ca
Benzo[k]fluoranthene	-	-	-	-	-	-	-	-	1.57E+00 ca
Chrysene	-	-	-	-	-	-	-	-	1.57E+01 ca
Dibenz[a,h]anthracene	-	-	-	-	-	-	-	-	1.57E-02 ca
Dibenzo(a,e)pyrene	-	-	-	-	-	-	-	-	4.24E-02 ca
Dimethylbenz(a)anthracene, 7,12-	-	-	-	-	-	-	-	-	4.59E-04 ca
Fluoranthene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	2.39E+03 nc
Fluorene	3.13E+03	1.01E+04	-	2.39E+03	3.34E+04	6.08E+04	-	2.15E+04	2.39E+03 nc
Indeno[1,2,3-cd]pyrene	-	-	-	-	-	-	-	-	1.57E-01 ca
Methylnaphthalene, 1-	5.48E+03	1.77E+04	-	4.18E+03	5.84E+04	1.06E+05	-	3.77E+04	1.76E+01 ca
Methylnaphthalene, 2-	3.13E+02	1.01E+03	-	2.39E+02	3.34E+03	6.08E+03	-	2.15E+03	2.39E+02 nc
Naphthalene	1.56E+03	5.07E+03	2.09E+02	1.78E+02	1.67E+04	3.04E+04	2.09E+02	2.05E+02	5.52E+00 ca*
Nitropyrene, 4-	-	-	-	-	-	-	-	-	4.24E-01 ca
Pyrene	2.35E+03	7.61E+03	-	1.79E+03	2.50E+04	4.56E+04	-	1.62E+04	1.79E+03 nc
Toluene	6.26E+03	-	3.23E+04	5.24E+03	6.67E+04	-	3.23E+04	2.18E+04	5.24E+03 sat
Trimethylbenzene, 1,2,4-	-	-	8.34E+01	8.34E+01	-	-	8.34E+01	8.34E+01	8.34E+01 nc
Trimethylbenzene, 1,3,5-	7.82E+02	-	-	7.82E+02	8.34E+03	-	-	8.34E+03	7.82E+02 sat
Xylenes	1.56E+04	-	8.64E+02	8.18E+02	1.67E+05	-	8.64E+02	8.59E+02	8.18E+02 sat

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(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 1.

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 1 as recommendations are developed pursuant to ss. 160.07, 160.13 and 160.15, Stats.

Table 1
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
1,1,2,2–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 I 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 diaminoatrazine).

[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

Box 60

WELL CONSTRUCTOR'S REPORT TO WISCONSIN STATE BOARD OF HEALTH

Wel 6

See Instructions on Reverse Side

RECEIVED
AUG 14 1962
SANITARY ENGINEERING

1. County Dodge — (Town ☒ / Village ☐ / City ☐) Beaver Dam — Check one and give name

2. Location Section 7 Tnship. 11N. Range 14 East
Name of street and number of premise or Section, Town and Range numbers

3. Owner ☒ or Agent ☐ Harry & Earl Birkholz
Name of individual, partnership or firm

4. Mail Address South Beaver Dam, Wisconsin
Complete address required

5. From well to nearest: Building ___ ft; sewer ___ ft; drain ___ ft; septic tank ___ ft; dry well or filter bed ___ ft; abandoned well ___ ft.

6. Well is intended to supply water for: Junk Yards

7. **DRILLHOLE:**

Dia. (in.)	From (ft.)	To (ft.)	Dia. (in.)	From (ft.)	To (ft.)
10	0	54	6	54	222

8. **CASING AND LINER PIPE OR CURBING:**

Dia. (in.)	Kind and Weight	From (ft.)	To (ft.)
6	Steel Stnd. Weight	0	[illegible]

9. **GROUT:**

Kind	From (ft.)	To (ft.)
Cement*Pressure Grouted	10	54
Clay, slurry	0	10

10. **FORMATIONS:**

Kind	From (ft.)	To (ft.)
Clay, stony	0	13
Limestone	13	80
Sandstone	80	222

11. **MISCELLANEOUS DATA:**

Yield test: 38 Hrs. at 15 GPM.

Depth from surface to water-level: 20 ft.

Water-level when pumping: 30 ft.

Water sample was sent to the state laboratory at: Madison (City) on August 9 1962

Construction of the well was completed on: August 7 19 62

The well is terminated 18 inches ☒ above, below ☐ the permanent ground surface.

Was the well disinfected upon completion? Yes x No

Was the well sealed watertight upon completion? Yes x No

Signature Leonard MacKbarlick — Registered Well Driller

R. F. D. #1 Juneau, Wisc. — Complete Mail Address

Please do not write in space below

AUG 10 1962

Rec'd ___ No 29552

Ans'd ___

Interpretation ___

SAFE—BACTERIOLOGICALLY

	10 ml	10 ml	10 ml	10 ml	10 ml
Gas—24 hrs.					
48 hrs.					
Confirm					
B. Coli					

Examiner ___

3195

A.7 Slug Test Calculations
Maron Property BRRTS #03-14-563925

MW-1

	ft/s	cm/s	m/yr
K	1.67E-05	5.09E-04	160.52
	sq ft/s	**sq cm/s**	
T	1.16E-04	1.08E-01	

MW-2

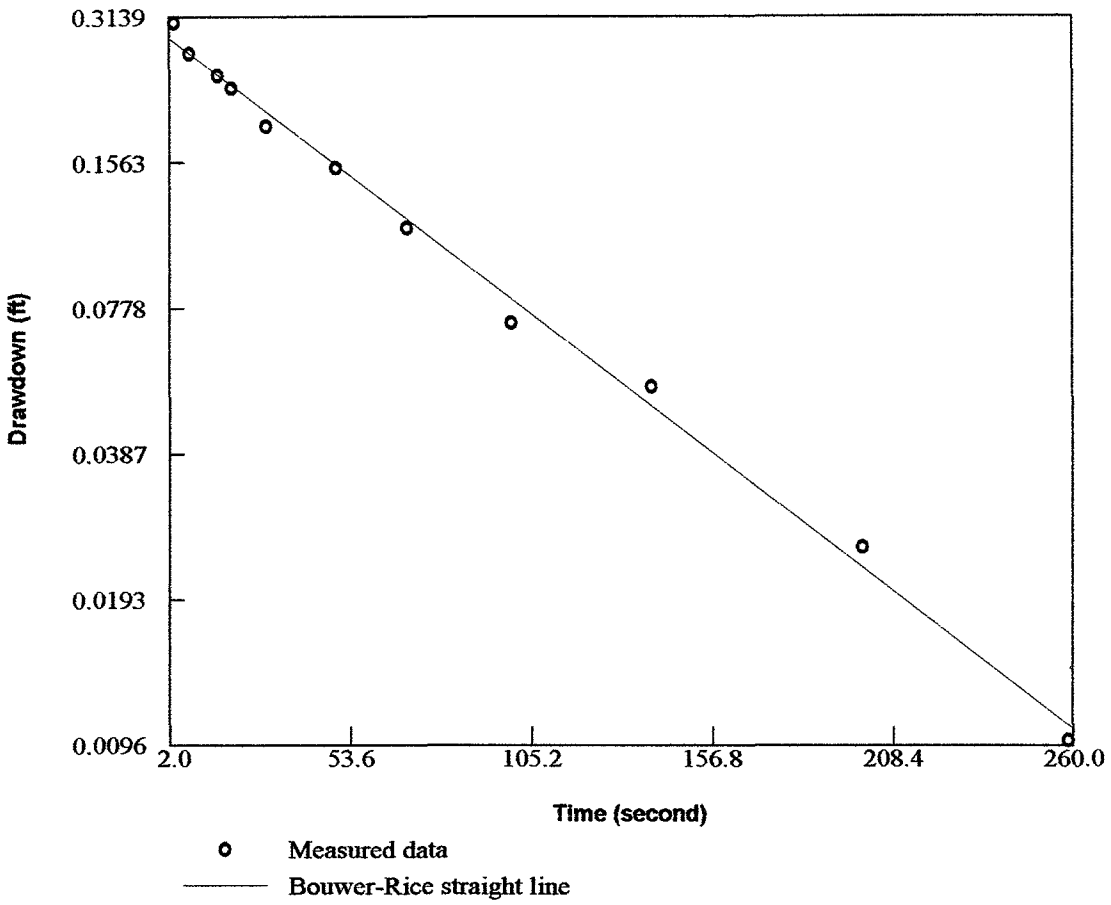
	ft/s	cm/s	m/yr
K	6.72E-06	2.05E-04	64.59
	sq ft/s	**sq cm/s**	
T	7.22E-05	6.71E-02	

MW-4

	ft/s	cm/s	m/yr
K	4.72E-06	1.44E-04	45.37
	sq ft/s	**sq cm/s**	
T	5.39E-05	5.01E-02	

Date	Elv. (High)	Elv. (Low)	Distance (ft)	Hyd Grad (I)
1/21/16	877.50	876.25	133	0.0093985
4/18/16	878.50	877.25	126	0.0099206
Average				0.0096596

	K (m/yr)	I	n	Flow Velocity (m/yr)
MW-1	160.52	0.0096596	0.3	5.16862
MW-2	64.59	0.0096596	0.3	2.07983
MW-4	45.37	0.0096596	0.3	1.46083



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	1.67e-005
Transmissivity (sq ft/s):	1.16e-004

Maron Property MW-1 Slug-In

Maron Property
Monitoring Well MW-1 (Slug-In)

Data file for DataLogger.
Err:510
COMPANY : <Company name>
COMP.STATUS: Do
DATE : 21/01/2016
TIME : 17:38:33
FILENAME : C:\Documents and Settings\Administrator\Desktop\METCO\maron\CSV\mw-1a_160121173833_U2623.CSV
CREATED BY : SWS Diver-Office 7.0.2.0
Err:510
[Logger settings]
Instrument type =Micro-Diver=15
Status =Started =0
Serial number =..00-U2623 215.
Instrument number =
=0
Location =mw-1a
Sample period =S02
Sample method =T
Number of channels =2
[Channel 1]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 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-U2623 215.
Instrument number =
Location =mw-1a
Sample period =00 00:00:02 0
Sample method =T
Start date / time =06:33:17 21/01/16
End date / time =22:38:17 21/01/16
[Channel 1 from data header]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 ft
Master level =0 m
Altitude =0 ft
[Channel 2 from data header]
Identification =TEMPERATURE
Reference level =-4.000 ¤F
Range =180.000 ¤F

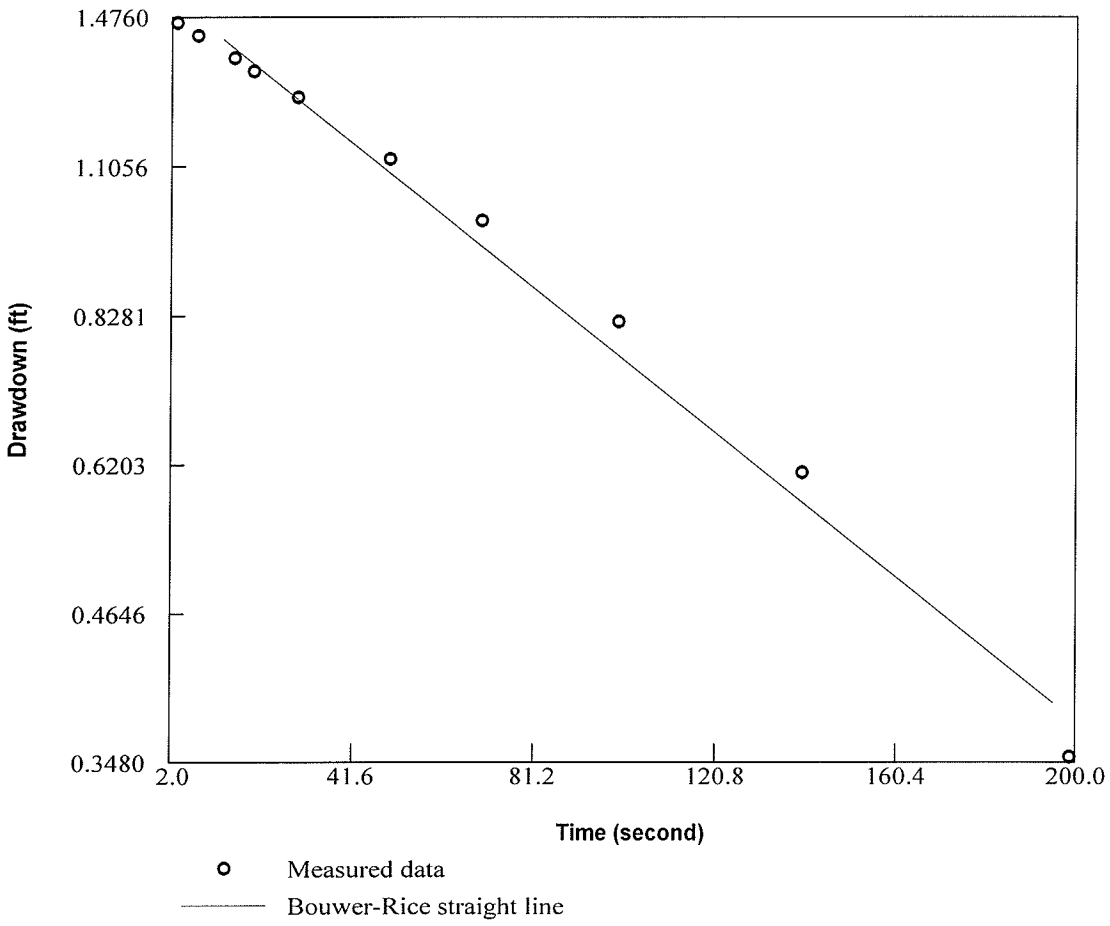
Date/time	Pressure[ft]	Temperature[¤F]	Time (sec)	Drawdown (ft)	Adj. Time (sec)
2016/01/21 17:33:06	40.11	48.12	0	0.29	
2016/01/21 17:33:08	40.09	48.12	2	0.28	
2016/01/21 17:33:10	40.09	48.12	4	0.28	
2016/01/21 17:33:12	40.09	48.13	6	0.28	
2016/01/21 17:33:14	40.08	48.15	8	0.26	
2016/01/21 17:33:16	40.07	48.15	10	0.26	
2016/01/21 17:33:18	39.06	48.15	12	0.76	
2016/01/21 17:33:20	39.43	48.16	14	0.38	
2016/01/21 17:33:22	39.52	48.16	16	0.29	
2016/01/21 17:33:24	39.56	48.16	18	0.26	
2016/01/21 17:33:26	40.55	48.17	20	0.73	
2016/01/21 17:33:28	40.28	48.17	22	0.47	0
2016/01/21 17:33:30	40.13	48.17	24	0.31	2
2016/01/21 17:33:32	40.09	48.18	26	0.28	4
2016/01/21 17:33:34	40.09	48.18	28	0.28	6
2016/01/21 17:33:36	40.08	48.18	30	0.26	8
2016/01/21 17:33:38	40.07	48.18	32	0.26	10
2016/01/21 17:33:40	40.07	48.18	34	0.25	12
2016/01/21 17:33:42	40.06	48.19	36	0.24	14

Maron Property
Monitoring Well MW-1 (Slug-In)

2016/01/21 17:33:44	40.05	48.19	38	0.24	16
2016/01/21 17:33:46	40.05	48.19	40	0.23	18
2016/01/21 17:33:48	40.04	48.21	42	0.22	20
2016/01/21 17:33:50	40.03	48.21	44	0.22	22
2016/01/21 17:33:52	40.03	48.21	46	0.21	24
2016/01/21 17:33:54	40.02	48.21	48	0.2	26
2016/01/21 17:33:56	40.01	48.22	50	0.2	28
2016/01/21 17:33:58	40	48.22	52	0.19	30
2016/01/21 17:34:00	40	48.22	54	0.18	32
2016/01/21 17:34:02	39.99	48.22	56	0.18	34
2016/01/21 17:34:04	39.98	48.23	58	0.17	36
2016/01/21 17:34:06	39.98	48.23	60	0.16	38
2016/01/21 17:34:08	39.97	48.23	62	0.16	40
2016/01/21 17:34:10	39.97	48.23	64	0.16	42
2016/01/21 17:34:12	39.97	48.24	66	0.15	44
2016/01/21 17:34:14	39.97	48.24	68	0.15	46
2016/01/21 17:34:16	39.96	48.24	70	0.15	48
2016/01/21 17:34:18	39.97	48.24	72	0.15	50
2016/01/21 17:34:20	39.96	48.25	74	0.14	52
2016/01/21 17:34:22	39.96	48.25	76	0.14	54
2016/01/21 17:34:24	39.95	48.25	78	0.14	56
2016/01/21 17:34:26	39.95	48.25	80	0.13	58
2016/01/21 17:34:28	39.94	48.27	82	0.12	60
2016/01/21 17:34:30	39.95	48.27	84	0.13	62
2016/01/21 17:34:32	39.94	48.27	86	0.12	64
2016/01/21 17:34:34	39.93	48.27	88	0.12	66
2016/01/21 17:34:36	39.94	48.28	90	0.12	68
2016/01/21 17:34:38	39.93	48.28	92	0.11	70
2016/01/21 17:34:40	39.93	48.28	94	0.11	72
2016/01/21 17:34:42	39.92	48.28	96	0.11	74
2016/01/21 17:34:44	39.92	48.29	98	0.11	76
2016/01/21 17:34:46	39.92	48.29	100	0.11	78
2016/01/21 17:34:48	39.92	48.29	102	0.1	80
2016/01/21 17:34:50	39.92	48.29	104	0.1	82
2016/01/21 17:34:52	39.91	48.29	106	0.09	84
2016/01/21 17:34:54	39.91	48.3	108	0.1	86
2016/01/21 17:34:56	39.91	48.3	110	0.09	88
2016/01/21 17:34:58	39.91	48.3	112	0.09	90
2016/01/21 17:35:00	39.91	48.3	114	0.09	92
2016/01/21 17:35:02	39.9	48.3	116	0.08	94
2016/01/21 17:35:04	39.89	48.31	118	0.08	96
2016/01/21 17:35:06	39.89	48.31	120	0.08	98
2016/01/21 17:35:08	39.89	48.31	122	0.07	100
2016/01/21 17:35:10	39.89	48.31	124	0.07	102
2016/01/21 17:35:12	39.89	48.31	126	0.07	104
2016/01/21 17:35:14	39.89	48.32	128	0.07	106
2016/01/21 17:35:16	39.89	48.32	130	0.07	108
2016/01/21 17:35:18	39.89	48.32	132	0.07	110
2016/01/21 17:35:20	39.89	48.32	134	0.07	112
2016/01/21 17:35:22	39.89	48.32	136	0.07	114
2016/01/21 17:35:24	39.89	48.33	138	0.07	116
2016/01/21 17:35:26	39.88	48.33	140	0.07	118
2016/01/21 17:35:28	39.88	48.33	142	0.07	120
2016/01/21 17:35:30	39.87	48.33	144	0.06	122
2016/01/21 17:35:32	39.87	48.33	146	0.06	124
2016/01/21 17:35:34	39.87	48.34	148	0.05	126
2016/01/21 17:35:36	39.87	48.34	150	0.06	128
2016/01/21 17:35:38	39.87	48.34	152	0.06	130
2016/01/21 17:35:40	39.87	48.34	154	0.05	132
2016/01/21 17:35:42	39.87	48.36	156	0.06	134
2016/01/21 17:35:44	39.87	48.36	158	0.06	136
2016/01/21 17:35:46	39.87	48.36	160	0.06	138
2016/01/21 17:35:48	39.87	48.36	162	0.05	140
2016/01/21 17:35:50	39.87	48.36	164	0.05	142
2016/01/21 17:35:52	39.87	48.37	166	0.05	144
2016/01/21 17:35:54	39.86	48.37	168	0.04	146
2016/01/21 17:35:56	39.86	48.37	170	0.04	148
2016/01/21 17:35:58	39.86	48.37	172	0.04	150
2016/01/21 17:36:00	39.86	48.37	174	0.04	152
2016/01/21 17:36:02	39.86	48.38	176	0.04	154
2016/01/21 17:36:04	39.86	48.38	178	0.05	156
2016/01/21 17:36:06	39.86	48.38	180	0.04	158

2016/01/21 17:36:08	39.86	48.38	182	0.04	160
2016/01/21 17:36:10	39.85	48.39	184	0.04	162
2016/01/21 17:36:12	39.85	48.38	186	0.03	164
2016/01/21 17:36:14	39.85	48.39	188	0.03	166
2016/01/21 17:36:16	39.85	48.39	190	0.03	168
2016/01/21 17:36:18	39.85	48.39	192	0.03	170
2016/01/21 17:36:20	39.85	48.39	194	0.04	172
2016/01/21 17:36:22	39.85	48.4	196	0.03	174
2016/01/21 17:36:24	39.85	48.4	198	0.03	176
2016/01/21 17:36:26	39.85	48.4	200	0.03	178
2016/01/21 17:36:28	39.85	48.4	202	0.03	180
2016/01/21 17:36:30	39.84	48.4	204	0.03	182
2016/01/21 17:36:32	39.84	48.4	206	0.03	184
2016/01/21 17:36:34	39.84	48.42	208	0.02	186
2016/01/21 17:36:36	39.84	48.42	210	0.02	188
2016/01/21 17:36:38	39.83	48.42	212	0.02	190
2016/01/21 17:36:40	39.84	48.42	214	0.02	192
2016/01/21 17:36:42	39.83	48.42	216	0.02	194
2016/01/21 17:36:44	39.84	48.42	218	0.02	196
2016/01/21 17:36:46	39.84	48.42	220	0.02	198
2016/01/21 17:36:48	39.84	48.42	222	0.02	200
2016/01/21 17:36:50	39.84	48.42	224	0.02	202
2016/01/21 17:36:52	39.83	48.42	226	0.02	204
2016/01/21 17:36:54	39.83	48.42	228	0.02	206
2016/01/21 17:36:56	39.83	48.42	230	0.02	208
2016/01/21 17:36:58	39.83	48.42	232	0.02	210
2016/01/21 17:37:00	39.83	48.42	234	0.02	212
2016/01/21 17:37:02	39.83	48.42	236	0.02	214
2016/01/21 17:37:04	39.83	48.42	238	0.01	216
2016/01/21 17:37:06	39.83	48.42	240	0.02	218
2016/01/21 17:37:08	39.83	48.42	242	0.01	220
2016/01/21 17:37:10	39.83	48.42	244	0.01	222
2016/01/21 17:37:12	39.83	48.42	246	0.01	224
2016/01/21 17:37:14	39.83	48.42	248	0.01	226
2016/01/21 17:37:16	39.83	48.42	250	0.01	228
2016/01/21 17:37:18	39.83	48.42	252	0.01	230
2016/01/21 17:37:20	39.82	48.42	254	0.01	232
2016/01/21 17:37:22	39.82	48.42	256	0.01	234
2016/01/21 17:37:24	39.82	48.42	258	0.01	236
2016/01/21 17:37:26	39.83	48.42	260	0.01	238
2016/01/21 17:37:28	39.83	48.4	262	0.02	240
2016/01/21 17:37:30	39.83	48.4	264	0.01	242
2016/01/21 17:37:32	39.83	48.4	266	0.02	244
2016/01/21 17:37:34	39.83	48.4	268	0.01	246
2016/01/21 17:37:36	39.83	48.4	270	0.02	248
2016/01/21 17:37:38	39.83	48.4	272	0.02	250
2016/01/21 17:37:40	39.83	48.4	274	0.01	252
2016/01/21 17:37:42	39.83	48.4	276	0.01	254
2016/01/21 17:37:44	39.83	48.4	278	0.01	256
2016/01/21 17:37:46	39.83	48.4	280	0.01	258
2016/01/21 17:37:48	39.83	48.4	282	0.01	260
2016/01/21 17:37:50	39.83	48.4	284	0.01	262
2016/01/21 17:37:52	39.83	48.4	286	0.01	264
2016/01/21 17:37:54	39.83	48.4	288	0.01	266
2016/01/21 17:37:56	39.83	48.4	290	0.01	268
2016/01/21 17:37:58	39.83	48.4	292	0.01	270
2016/01/21 17:38:00	39.82	48.4	294	0	272
2016/01/21 17:38:02	39.82	48.39	296	0.01	274
2016/01/21 17:38:04	39.82	48.39	298	0.01	276
2016/01/21 17:38:06	39.82	48.39	300	0	278
2016/01/21 17:38:08	39.82	48.39	302	0	
2016/01/21 17:38:10	39.82	48.39	304	0	
2016/01/21 17:38:12	39.82	48.39	306	0	
2016/01/21 17:38:14	39.82	48.39	308	0	
2016/01/21 17:38:16	39.82	48.39	310	0.01	
2016/01/21 17:38:18	39.82	48.39	312	0	
2016/01/21 17:38:20	39.82	48.39	314	0	
2016/01/21 17:38:22	39.82	48.39	316	0	

END OF DATA FILE OF DATALOGGER FOR WINDOWS



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	6.72e-006
Transmissivity (sq ft/s):	7.22e-005

Maron Property MW-2 Slug-Out

Maron Property
Monitoring Well MW-2 (Slug-Out)

Data file for DataLogger.
Err:510
COMPANY : <Company name>
COMP.STATUS: Do
DATE : 21/01/2016
TIME : 17:16:50
FILENAME : C:\Documents and Settings\Administrator\Desktop\METCO\maron\CSV\mw-2b_160121171650_U2623.CS
CREATED BY : SWS Diver-Office 7.0.2.0
Err:510
[Logger settings]
Instrument type =Micro-Diver=15
Status =Started =0
Serial number =..00-U2623 215.
Instrument number =
=0
Location =mw-2b
Sample period =S02
Sample method =T
Number of channels =2
[Channel 1]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 ft
Master level =0 m
Altitude =0 ft
[Channel 2]
Identification =TEMPERATURE
Reference level =-4.000 ¤F
Range =180.000 ¤F

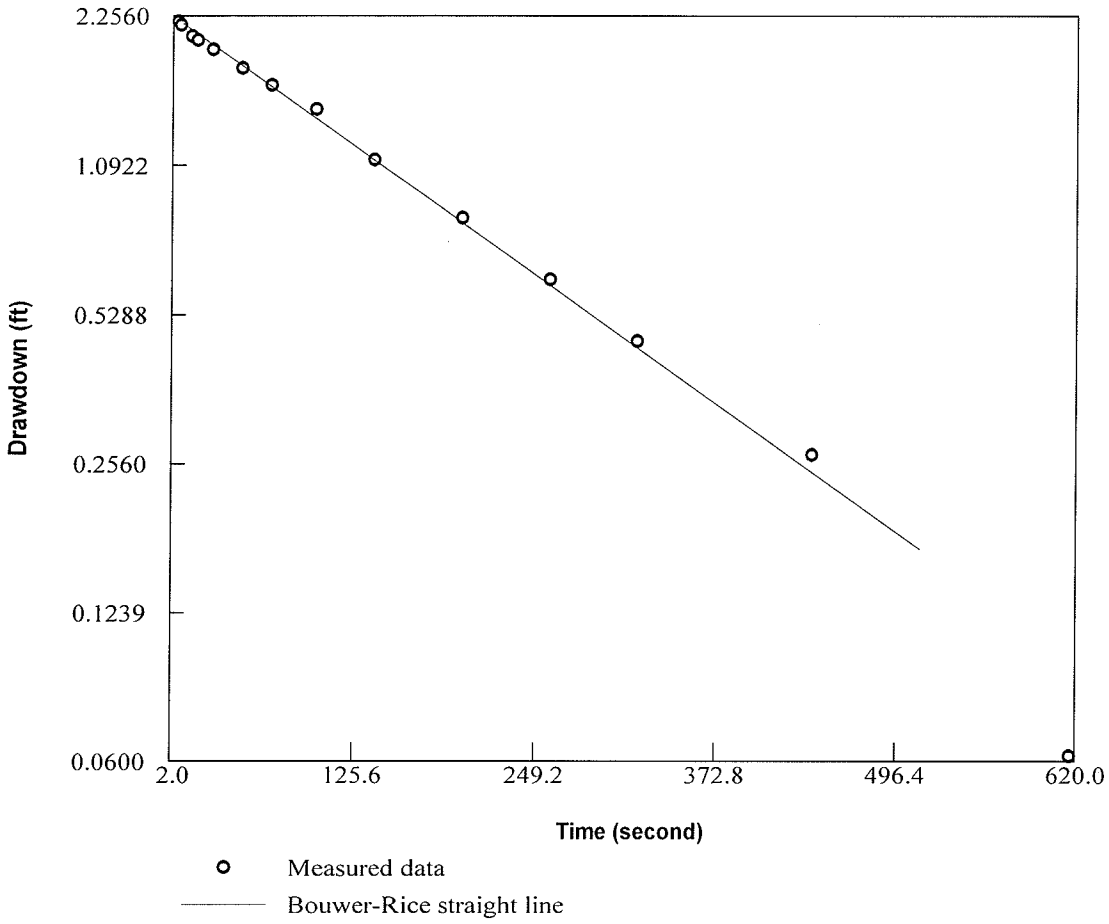
[Series settings]
Serial number =..00-U2623 215.
Instrument number =
Location =mw-2b
Sample period =00 00:00:02 0
Sample method =T
Start date / time =15:11:17 21/01/16
End date / time =37:16:17 21/01/16
[Channel 1 from data header]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 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]	Temperature[¤F]	Time (sec)	Drawdown (ft)
2016/01/21 17:11:15	42.82207	48.122	0	1.5
2016/01/21 17:11:17	42.82207	48.146	2	1.476
2016/01/21 17:11:19	42.81633	48.158	4	1.464
2016/01/21 17:11:21	42.8259	48.17	6	1.452
2016/01/21 17:11:23	42.82207	48.194	8	1.428
2016/01/21 17:11:25	42.82016	48.206	10	1.416
2016/01/21 17:11:27	42.81633	48.23	12	1.392
2016/01/21 17:11:29	42.82016	48.242	14	1.38
2016/01/21 17:11:31	41.97807	48.254	16	1.368
2016/01/21 17:11:33	42.2728	48.266	18	1.356
2016/01/21 17:11:35	42.49289	48.29	20	1.332
2016/01/21 17:11:37	42.57519	48.302	22	1.32
2016/01/21 17:11:39	42.60581	48.308	24	1.314
2016/01/21 17:11:41	42.6326	48.32	26	1.302
2016/01/21 17:11:43	42.64026	48.344	28	1.278
2016/01/21 17:11:45	42.64983	48.356	30	1.266
2016/01/21 17:11:47	42.65365	48.368	32	1.254
2016/01/21 17:11:49	42.65939	48.392	34	1.23
2016/01/21 17:11:51	42.66322	48.404	36	1.218

2016/01/21 17:11:53	42.65939	48.416	38	1.206
2016/01/21 17:11:55	42.66896	48.428	40	1.194
2016/01/21 17:11:57	42.66896	48.452	42	1.17
2016/01/21 17:11:59	42.67279	48.464	44	1.158
2016/01/21 17:12:01	42.66896	48.476	46	1.146
2016/01/21 17:12:03	42.66514	48.488	48	1.134
2016/01/21 17:12:05	42.6747	48.5	50	1.122
2016/01/21 17:12:07	42.6747	48.506	52	1.116
2016/01/21 17:12:09	42.67279	48.518	54	1.104
2016/01/21 17:12:11	42.6747	48.542	56	1.08
2016/01/21 17:12:13	42.67853	48.554	58	1.068
2016/01/21 17:12:15	42.6747	48.566	60	1.056
2016/01/21 17:12:17	42.67853	48.578	62	1.044
2016/01/21 17:12:19	42.67853	48.59	64	1.032
2016/01/21 17:12:21	42.67853	48.602	66	1.02
2016/01/21 17:12:23	42.6747	48.614	68	1.008
2016/01/21 17:12:25	42.6881	48.626	70	0.996
2016/01/21 17:12:27	42.6747	48.638	72	0.984
2016/01/21 17:12:29	42.68236	48.65	74	0.972
2016/01/21 17:12:31	42.68427	48.662	76	0.96
2016/01/21 17:12:33	42.68236	48.674	78	0.948
2016/01/21 17:12:35	42.6747	48.686	80	0.936
2016/01/21 17:12:37	42.68236	48.692	82	0.93
2016/01/21 17:12:39	42.6747	48.704	84	0.918
2016/01/21 17:12:41	42.6881	48.716	86	0.906
2016/01/21 17:12:43	42.68427	48.728	88	0.894
2016/01/21 17:12:45	42.68236	48.74	90	0.882
2016/01/21 17:12:47	42.67853	48.752	92	0.87
2016/01/21 17:12:49	42.6881	48.764	94	0.858
2016/01/21 17:12:51	42.68427	48.776	96	0.846
2016/01/21 17:12:53	42.6881	48.788	98	0.834
2016/01/21 17:12:55	42.68427	48.8	100	0.822
2016/01/21 17:12:57	42.6881	48.812	102	0.81
2016/01/21 17:12:59	42.69576	48.824	104	0.798
2016/01/21 17:13:01	42.6881	48.836	106	0.786
2016/01/21 17:13:03	42.6881	48.848	108	0.774
2016/01/21 17:13:05	42.6881	48.86	110	0.762
2016/01/21 17:13:07	42.6881	48.872	112	0.75
2016/01/21 17:13:09	42.68236	48.878	114	0.744
2016/01/21 17:13:11	42.6881	48.89	116	0.732
2016/01/21 17:13:13	42.68427	48.902	118	0.72
2016/01/21 17:13:15	42.68236	48.914	120	0.708
2016/01/21 17:13:17	42.6881	48.926	122	0.696
2016/01/21 17:13:19	42.68427	48.938	124	0.684
2016/01/21 17:13:21	42.6881	48.95	126	0.672
2016/01/21 17:13:23	42.6881	48.95	128	0.672
2016/01/21 17:13:25	42.68236	48.962	130	0.66
2016/01/21 17:13:27	42.69193	48.974	132	0.648
2016/01/21 17:13:29	42.6881	48.986	134	0.636
2016/01/21 17:13:31	42.6881	48.998	136	0.624
2016/01/21 17:13:33	42.69193	49.01	138	0.612
2016/01/21 17:13:35	42.69193	49.01	140	0.612
2016/01/21 17:13:37	42.6881	49.022	142	0.6
2016/01/21 17:13:39	42.68236	49.034	144	0.588
2016/01/21 17:13:41	42.6881	49.046	146	0.576
2016/01/21 17:13:43	42.68236	49.058	148	0.564
2016/01/21 17:13:45	42.68427	49.064	150	0.558
2016/01/21 17:13:47	42.6881	49.076	152	0.546
2016/01/21 17:13:49	42.69576	49.076	154	0.546
2016/01/21 17:13:51	42.68236	49.088	156	0.534
2016/01/21 17:13:53	42.68427	49.1	158	0.522
2016/01/21 17:13:55	42.69576	49.112	160	0.51
2016/01/21 17:13:57	42.68236	49.124	162	0.498
2016/01/21 17:13:59	42.68236	49.124	164	0.498
2016/01/21 17:14:01	42.6881	49.136	166	0.486
2016/01/21 17:14:03	42.68427	49.148	168	0.474
2016/01/21 17:14:05	42.6881	49.16	170	0.462
2016/01/21 17:14:07	42.68427	49.172	172	0.45
2016/01/21 17:14:09	42.68427	49.172	174	0.45
2016/01/21 17:14:11	42.6881	49.184	176	0.438
2016/01/21 17:14:13	42.69193	49.196	178	0.426
2016/01/21 17:14:15	42.68427	49.196	180	0.426

2016/01/21 17:14:17	42.6881	49.208	182	0.414
2016/01/21 17:14:19	42.68427	49.22	184	0.402
2016/01/21 17:14:21	42.68427	49.22	186	0.402
2016/01/21 17:14:23	42.6881	49.232	188	0.39
2016/01/21 17:14:25	42.68427	49.244	190	0.378
2016/01/21 17:14:27	42.67853	49.244	192	0.378
2016/01/21 17:14:29	42.68236	49.25	194	0.372
2016/01/21 17:14:31	42.68236	49.262	196	0.36
2016/01/21 17:14:33	42.6881	49.262	198	0.36
2016/01/21 17:14:35	42.68236	49.274	200	0.348
2016/01/21 17:14:37	42.68427	49.286	202	0.336
2016/01/21 17:14:39	42.69193	49.286	204	0.336
2016/01/21 17:14:41	42.68236	49.298	206	0.324
2016/01/21 17:14:43	42.6881	49.298	208	0.324
2016/01/21 17:14:45	42.6881	49.31	210	0.312
2016/01/21 17:14:47	42.69193	49.322	212	0.3
2016/01/21 17:14:49	42.69193	49.322	214	0.3
2016/01/21 17:14:51	42.69193	49.334	216	0.288
2016/01/21 17:14:53	42.6881	49.346	218	0.276
2016/01/21 17:14:55	42.6881	49.346	220	0.276
2016/01/21 17:14:57	42.69576	49.358	222	0.264
2016/01/21 17:14:59	42.69576	49.358	224	0.264
2016/01/21 17:15:01	42.68236	49.37	226	0.252
2016/01/21 17:15:03	42.68236	49.37	228	0.252
2016/01/21 17:15:05	42.68619	49.382	230	0.24
2016/01/21 17:15:07	42.68427	49.394	232	0.228
2016/01/21 17:15:09	42.68427	49.394	234	0.228
2016/01/21 17:15:11	42.68619	49.406	236	0.216
2016/01/21 17:15:13	42.68619	49.406	238	0.216
2016/01/21 17:15:15	42.68236	49.418	240	0.204
2016/01/21 17:15:17	42.69576	49.43	242	0.192
2016/01/21 17:15:19	42.6881	49.43	244	0.192
2016/01/21 17:15:21	42.68236	49.436	246	0.186
2016/01/21 17:15:23	42.68236	49.436	248	0.186
2016/01/21 17:15:25	42.6881	49.448	250	0.174
2016/01/21 17:15:27	42.68427	49.46	252	0.162
2016/01/21 17:15:29	42.68427	49.46	254	0.162
2016/01/21 17:15:31	42.68619	49.472	256	0.15
2016/01/21 17:15:33	42.68619	49.472	258	0.15
2016/01/21 17:15:35	42.68427	49.484	260	0.138
2016/01/21 17:15:37	42.6881	49.496	262	0.126
2016/01/21 17:15:39	42.6881	49.496	264	0.126
2016/01/21 17:15:41	42.68236	49.508	266	0.114
2016/01/21 17:15:43	42.6881	49.508	268	0.114
2016/01/21 17:15:45	42.6881	49.52	270	0.102
2016/01/21 17:15:47	42.68427	49.532	272	0.09
2016/01/21 17:15:49	42.69193	49.532	274	0.09
2016/01/21 17:15:51	42.68427	49.532	276	0.09
2016/01/21 17:15:53	42.68619	49.544	278	0.078
2016/01/21 17:15:55	42.69576	49.556	280	0.066
2016/01/21 17:15:57	42.69576	49.556	282	0.066
2016/01/21 17:15:59	42.69576	49.556	284	0.066
2016/01/21 17:16:01	42.6881	49.568	286	0.054
2016/01/21 17:16:03	42.6881	49.568	288	0.054
2016/01/21 17:16:05	42.6881	49.58	290	0.042
2016/01/21 17:16:07	42.6881	49.58	292	0.042
2016/01/21 17:16:09	42.6881	49.58	294	0.042
2016/01/21 17:16:11	42.6881	49.592	296	0.03
2016/01/21 17:16:13	42.69576	49.592	298	0.03
2016/01/21 17:16:15	42.6881	49.592	300	0.03
2016/01/21 17:16:17	42.6881	49.604	302	0.018
2016/01/21 17:16:19	42.6881	49.604	304	0.018
2016/01/21 17:16:21	42.6881	49.604	306	0.018
2016/01/21 17:16:23	42.69576	49.604	308	0.018
2016/01/21 17:16:25	42.69576	49.616	310	0.006
2016/01/21 17:16:27	42.6881	49.616	312	0.006
2016/01/21 17:16:29	42.6881	49.616	314	0.006
2016/01/21 17:16:31	42.68427	49.622	316	0
2016/01/21 17:16:33	42.68427	49.622	318	0
2016/01/21 17:16:35	42.67853	49.622	320	0
2016/01/21 17:16:37	42.68427	49.622	322	0

END OF DATA FILE OF DATALOGGER FOR WINDOWS



Aquifer Parameters by the Bouwer and Rice Slug Test	
Hydraulic Conductivity (ft/s):	4.72e-006
Transmissivity (sq ft/s):	5.39e-005

Maron Property MW-4 Slug-In

Maron Property
Monitoring Well MW-4 (Slug-In)

Data file for DataLogger.
Err:510
COMPANY : <Company name>
COMP.STATUS: Do
DATE : 21/01/2016
TIME : 16:01:30
FILENAME: C:\Documents and Settings\Administrator\Desktop\METCO\maron\CSV\mw-4a_160121160130_U2623.CSV
CREATED BY : SWS Diver-Office 7.0.2.0
Err:510
[Logger settings]
Instrument type =Micro-Diver=15
Status =Started =0
Serial number =..00-U2623 215.
Instrument number =
=0
Location =mw-4a
Sample period =S02
Sample method =T
Number of channels =2
[Channel 1]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 ft
Master level =0 m
Altitude =0 ft
[Channel 2]
Identification =TEMPERATURE
Reference level =-4.000 ãF
Range =180.000 ãF

[Series settings]
Serial number =..00-U2623 215.
Instrument number =
Location =mw-4a
Sample period =00 00:00:02 0
Sample method =T
Start date / time =33:42:15 21/01/16
End date / time =05:54:15 21/01/16
[Channel 1 from data header]
Identification =PRESSURE
Reference level =13.12336 ft
Range =57.41470 ft
Master level =0 m
Altitude =0 ft
[Channel 2 from data header]
Identification =TEMPERATURE
Reference level =-4.000 ãF
Range =180.000 ãF

Date/time	Pressure[ft]	Temperature[ãF]	Time (sec)	Drawdown (ft)	Adj Time (sec)
2016/01/21 15:42:33	42.26515	49.076	0	2.37	
2016/01/21 15:42:35	42.26515	49.046	2	2.34	
2016/01/21 15:42:37	42.26515	49.022	4	2.316	
2016/01/21 15:42:39	42.25941	48.986	6	2.28	0
2016/01/21 15:42:41	42.26515	48.962	8	2.256	2
2016/01/21 15:42:43	42.26515	48.926	10	2.22	4
2016/01/21 15:42:45	42.26897	48.902	12	2.196	6
2016/01/21 15:42:47	42.26515	48.878	14	2.172	8
2016/01/21 15:42:49	43.02111	48.848	16	2.142	10
2016/01/21 15:42:51	42.50246	48.824	18	2.118	12
2016/01/21 15:42:53	42.44696	48.8	20	2.094	14
2016/01/21 15:42:55	42.4393	48.764	22	2.058	16
2016/01/21 15:42:57	42.43165	48.74	24	2.034	18
2016/01/21 15:42:59	42.42591	48.716	26	2.01	20
2016/01/21 15:43:01	42.42591	48.692	28	1.986	22
2016/01/21 15:43:03	42.42017	48.686	30	1.98	24
2016/01/21 15:43:05	42.40868	48.662	32	1.956	26
2016/01/21 15:43:07	42.39911	48.638	34	1.932	28
2016/01/21 15:43:09	42.41251	48.626	36	1.92	30
2016/01/21 15:43:11	42.40294	48.602	38	1.896	32
2016/01/21 15:43:13	42.40294	48.59	40	1.884	34
2016/01/21 15:43:15	42.39911	48.566	42	1.86	36
2016/01/21 15:43:17	42.40294	48.554	44	1.848	38
2016/01/21 15:43:19	42.39911	48.53	46	1.824	40
2016/01/21 15:43:21	42.3972	48.518	48	1.812	42
2016/01/21 15:43:23	42.39337	48.5	50	1.794	44
2016/01/21 15:43:25	42.38955	48.488	52	1.782	46
2016/01/21 15:43:27	42.39337	48.476	54	1.77	48
2016/01/21 15:43:29	42.3838	48.464	56	1.758	50
2016/01/21 15:43:31	42.38763	48.452	58	1.746	52
2016/01/21 15:43:33	42.3838	48.44	60	1.734	54
2016/01/21 15:43:35	42.38763	48.428	62	1.722	56
2016/01/21 15:43:37	42.3838	48.416	64	1.71	58
2016/01/21 15:43:39	42.38763	48.404	66	1.698	60
2016/01/21 15:43:41	42.3838	48.392	68	1.686	62
2016/01/21 15:43:43	42.38763	48.38	70	1.674	64
2016/01/21 15:43:45	42.37806	48.368	72	1.662	66
2016/01/21 15:43:47	42.37806	48.344	74	1.638	68
2016/01/21 15:43:49	42.37806	48.332	76	1.626	70
2016/01/21 15:43:51	42.37041	48.32	78	1.614	72
2016/01/21 15:43:53	42.37423	48.308	80	1.602	74
2016/01/21 15:43:55	42.37806	48.302	82	1.596	76
2016/01/21 15:43:57	42.37806	48.29	84	1.584	78
2016/01/21 15:43:59	42.37806	48.278	86	1.572	80
2016/01/21 15:44:01	42.37423	48.266	88	1.56	82
2016/01/21 15:44:03	42.36849	48.254	90	1.548	84
2016/01/21 15:44:05	42.37806	48.242	92	1.536	86
2016/01/21 15:44:07	42.37423	48.23	94	1.524	88

Maron Property
Monitoring Well MW-4 (Slug-In)

2016/01/21 15:44:09	42.37423	48.218	96	1.512	90
2016/01/21 15:44:11	42.37806	48.206	98	1.5	92
2016/01/21 15:44:13	42.37423	48.194	100	1.488	94
2016/01/21 15:44:15	42.37423	48.182	102	1.476	96
2016/01/21 15:44:17	42.36849	48.158	104	1.452	98
2016/01/21 15:44:19	42.36849	48.146	106	1.44	100
2016/01/21 15:44:21	42.37041	48.134	108	1.428	102
2016/01/21 15:44:23	42.36849	48.104	110	1.398	104
2016/01/21 15:44:25	42.36849	48.08	112	1.374	106
2016/01/21 15:44:27	42.36849	48.056	114	1.35	108
2016/01/21 15:44:29	42.37041	48.044	116	1.338	110
2016/01/21 15:44:31	42.36467	48.02	118	1.314	112
2016/01/21 15:44:33	42.36849	48.008	120	1.302	114
2016/01/21 15:44:35	42.36849	47.984	122	1.278	116
2016/01/21 15:44:37	42.36467	47.972	124	1.266	118
2016/01/21 15:44:39	42.36849	47.96	126	1.254	120
2016/01/21 15:44:41	42.36467	47.948	128	1.242	122
2016/01/21 15:44:43	42.37041	47.93	130	1.224	124
2016/01/21 15:44:45	42.37041	47.918	132	1.212	126
2016/01/21 15:44:47	42.36849	47.906	134	1.2	128
2016/01/21 15:44:49	42.36467	47.894	136	1.188	130
2016/01/21 15:44:51	42.36467	47.882	138	1.176	132
2016/01/21 15:44:53	42.36084	47.87	140	1.164	134
2016/01/21 15:44:55	42.36467	47.858	142	1.152	136
2016/01/21 15:44:57	42.36084	47.846	144	1.14	138
2016/01/21 15:44:59	42.36084	47.834	146	1.128	140
2016/01/21 15:45:01	42.36084	47.822	148	1.116	142
2016/01/21 15:45:03	42.36849	47.81	150	1.104	144
2016/01/21 15:45:05	42.36084	47.81	152	1.104	146
2016/01/21 15:45:07	42.36467	47.786	154	1.08	148
2016/01/21 15:45:09	42.36467	47.786	156	1.08	150
2016/01/21 15:45:11	42.35892	47.774	158	1.068	152
2016/01/21 15:45:13	42.36084	47.762	160	1.056	154
2016/01/21 15:45:15	42.35892	47.75	162	1.044	156
2016/01/21 15:45:17	42.36084	47.744	164	1.038	158
2016/01/21 15:45:19	42.35892	47.732	166	1.026	160
2016/01/21 15:45:21	42.36467	47.732	168	1.026	162
2016/01/21 15:45:23	42.3551	47.72	170	1.014	164
2016/01/21 15:45:25	42.35892	47.708	172	1.002	166
2016/01/21 15:45:27	42.36084	47.696	174	0.99	168
2016/01/21 15:45:29	42.36084	47.696	176	0.99	170
2016/01/21 15:45:31	42.35127	47.684	178	0.978	172
2016/01/21 15:45:33	42.3551	47.672	180	0.966	174
2016/01/21 15:45:35	42.35892	47.66	182	0.954	176
2016/01/21 15:45:37	42.36084	47.648	184	0.942	178
2016/01/21 15:45:39	42.36084	47.648	186	0.942	180
2016/01/21 15:45:41	42.36467	47.636	188	0.93	182
2016/01/21 15:45:43	42.36084	47.624	190	0.918	184
2016/01/21 15:45:45	42.36084	47.624	192	0.918	186
2016/01/21 15:45:47	42.36467	47.612	194	0.906	188
2016/01/21 15:45:49	42.36467	47.6	196	0.894	190
2016/01/21 15:45:51	42.35892	47.588	198	0.882	192
2016/01/21 15:45:53	42.35892	47.588	200	0.882	194
2016/01/21 15:45:55	42.36467	47.576	202	0.87	196
2016/01/21 15:45:57	42.35892	47.564	204	0.858	198
2016/01/21 15:45:59	42.35892	47.558	206	0.852	200
2016/01/21 15:46:01	42.35892	47.558	208	0.852	202
2016/01/21 15:46:03	42.35892	47.546	210	0.84	204
2016/01/21 15:46:05	42.36084	47.534	212	0.828	206
2016/01/21 15:46:07	42.3551	47.522	214	0.816	208
2016/01/21 15:46:09	42.35892	47.51	216	0.804	210
2016/01/21 15:46:11	42.35892	47.51	218	0.804	212
2016/01/21 15:46:13	42.35892	47.498	220	0.792	214
2016/01/21 15:46:15	42.3551	47.486	222	0.78	216
2016/01/21 15:46:17	42.35892	47.474	224	0.768	218
2016/01/21 15:46:19	42.35892	47.462	226	0.756	220
2016/01/21 15:46:21	42.35892	47.462	228	0.756	222
2016/01/21 15:46:23	42.3551	47.45	230	0.744	224
2016/01/21 15:46:25	42.36467	47.438	232	0.732	226
2016/01/21 15:46:27	42.36084	47.426	234	0.72	228
2016/01/21 15:46:29	42.3551	47.426	236	0.72	230
2016/01/21 15:46:31	42.3551	47.414	238	0.708	232
2016/01/21 15:46:33	42.3551	47.414	240	0.708	234
2016/01/21 15:46:35	42.35892	47.402	242	0.696	236
2016/01/21 15:46:37	42.35892	47.402	244	0.696	238
2016/01/21 15:46:39	42.3551	47.39	246	0.684	240
2016/01/21 15:46:41	42.3551	47.378	248	0.672	242
2016/01/21 15:46:43	42.36084	47.378	250	0.672	244
2016/01/21 15:46:45	42.3551	47.378	252	0.672	246
2016/01/21 15:46:47	42.35127	47.372	254	0.666	248
2016/01/21 15:46:49	42.3551	47.36	256	0.654	250
2016/01/21 15:46:51	42.36084	47.36	258	0.654	252
2016/01/21 15:46:53	42.35892	47.348	260	0.642	254
2016/01/21 15:46:55	42.35127	47.348	262	0.642	256
2016/01/21 15:46:57	42.3551	47.336	264	0.63	258
2016/01/21 15:46:59	42.36084	47.336	266	0.63	260
2016/01/21 15:47:01	42.35892	47.324	268	0.618	262
2016/01/21 15:47:03	42.34553	47.324	270	0.618	264
2016/01/21 15:47:05	42.3551	47.312	272	0.606	266
2016/01/21 15:47:07	42.3551	47.312	274	0.606	268
2016/01/21 15:47:09	42.35892	47.3	276	0.594	270
2016/01/21 15:47:11	42.35892	47.3	278	0.594	272
2016/01/21 15:47:13	42.35892	47.288	280	0.582	274
2016/01/21 15:47:15	42.35127	47.288	282	0.582	276
2016/01/21 15:47:17	42.3551	47.276	284	0.57	278
2016/01/21 15:47:19	42.3551	47.276	286	0.57	280
2016/01/21 15:47:21	42.35892	47.264	288	0.558	282
2016/01/21 15:47:23	42.35892	47.264	290	0.558	284
2016/01/21 15:47:25	42.3551	47.252	292	0.546	286
2016/01/21 15:47:27	42.36084	47.252	294	0.546	288
2016/01/21 15:47:29	42.35127	47.24	296	0.534	290

Maron Property
Monitoring Well MW-4 (Slug-In)

2016/01/21 15:47:31	42.35127	47.24	298	0.534	292
2016/01/21 15:47:33	42.35892	47.24	300	0.534	294
2016/01/21 15:47:35	42.36084	47.228	302	0.522	296
2016/01/21 15:47:37	42.3551	47.228	304	0.522	298
2016/01/21 15:47:39	42.35892	47.216	306	0.51	300
2016/01/21 15:47:41	42.35892	47.216	308	0.51	302
2016/01/21 15:47:43	42.36084	47.204	310	0.498	304
2016/01/21 15:47:45	42.36849	47.204	312	0.498	306
2016/01/21 15:47:47	42.36084	47.204	314	0.498	308
2016/01/21 15:47:49	42.35892	47.192	316	0.486	310
2016/01/21 15:47:51	42.35892	47.192	318	0.486	312
2016/01/21 15:47:53	42.35127	47.186	320	0.48	314
2016/01/21 15:47:55	42.35892	47.186	322	0.48	316
2016/01/21 15:47:57	42.35892	47.186	324	0.48	318
2016/01/21 15:47:59	42.3551	47.174	326	0.468	320
2016/01/21 15:48:01	42.34935	47.174	328	0.468	322
2016/01/21 15:48:03	42.34935	47.174	330	0.468	324
2016/01/21 15:48:05	42.35892	47.162	332	0.456	326
2016/01/21 15:48:07	42.35892	47.162	334	0.456	328
2016/01/21 15:48:09	42.35892	47.162	336	0.456	330
2016/01/21 15:48:11	42.35892	47.15	338	0.444	332
2016/01/21 15:48:13	42.35892	47.15	340	0.444	334
2016/01/21 15:48:15	42.35892	47.15	342	0.444	336
2016/01/21 15:48:17	42.35127	47.15	344	0.444	338
2016/01/21 15:48:19	42.35892	47.15	346	0.444	340
2016/01/21 15:48:21	42.34935	47.138	348	0.432	342
2016/01/21 15:48:23	42.3551	47.138	350	0.432	344
2016/01/21 15:48:25	42.3551	47.138	352	0.432	346
2016/01/21 15:48:27	42.35892	47.126	354	0.42	348
2016/01/21 15:48:29	42.35127	47.126	356	0.42	350
2016/01/21 15:48:31	42.35892	47.126	358	0.42	352
2016/01/21 15:48:33	42.35127	47.126	360	0.42	354
2016/01/21 15:48:35	42.35892	47.114	362	0.408	356
2016/01/21 15:48:37	42.35892	47.114	364	0.408	358
2016/01/21 15:48:39	42.35892	47.114	366	0.408	360
2016/01/21 15:48:41	42.3551	47.102	368	0.396	362
2016/01/21 15:48:43	42.3551	47.102	370	0.396	364
2016/01/21 15:48:45	42.36084	47.102	372	0.396	366
2016/01/21 15:48:47	42.36467	47.09	374	0.384	368
2016/01/21 15:48:49	42.35892	47.09	376	0.384	370
2016/01/21 15:48:51	42.35127	47.09	378	0.384	372
2016/01/21 15:48:53	42.35892	47.078	380	0.372	374
2016/01/21 15:48:55	42.35892	47.078	382	0.372	376
2016/01/21 15:48:57	42.35127	47.078	384	0.372	378
2016/01/21 15:48:59	42.35892	47.078	386	0.372	380
2016/01/21 15:49:01	42.35127	47.066	388	0.36	382
2016/01/21 15:49:03	42.35892	47.054	390	0.348	384
2016/01/21 15:49:05	42.35892	47.054	392	0.348	386
2016/01/21 15:49:07	42.35892	47.054	394	0.348	388
2016/01/21 15:49:09	42.35892	47.054	396	0.348	390
2016/01/21 15:49:11	42.3551	47.042	398	0.336	392
2016/01/21 15:49:13	42.3551	47.042	400	0.336	394
2016/01/21 15:49:15	42.3551	47.042	402	0.336	396
2016/01/21 15:49:17	42.3551	47.03	404	0.324	398
2016/01/21 15:49:19	42.36084	47.03	406	0.324	400
2016/01/21 15:49:21	42.3551	47.03	408	0.324	402
2016/01/21 15:49:23	42.3551	47.03	410	0.324	404
2016/01/21 15:49:25	42.3551	47.018	412	0.312	406
2016/01/21 15:49:27	42.3551	47.018	414	0.312	408
2016/01/21 15:49:29	42.3551	47.018	416	0.312	410
2016/01/21 15:49:31	42.35892	47.006	418	0.3	412
2016/01/21 15:49:33	42.35892	47.006	420	0.3	414
2016/01/21 15:49:35	42.35892	47.006	422	0.3	416
2016/01/21 15:49:37	42.35892	47.006	424	0.3	418
2016/01/21 15:49:39	42.35892	47.006	426	0.3	420
2016/01/21 15:49:41	42.35127	47	428	0.294	422
2016/01/21 15:49:43	42.35127	47	430	0.294	424
2016/01/21 15:49:45	42.35127	47	432	0.294	426
2016/01/21 15:49:47	42.3551	46.988	434	0.282	428
2016/01/21 15:49:49	42.3551	46.988	436	0.282	430
2016/01/21 15:49:51	42.3551	46.988	438	0.282	432
2016/01/21 15:49:53	42.3551	46.988	440	0.282	434
2016/01/21 15:49:55	42.3551	46.988	442	0.282	436
2016/01/21 15:49:57	42.35127	46.976	444	0.27	438
2016/01/21 15:49:59	42.35127	46.976	446	0.27	440
2016/01/21 15:50:01	42.35127	46.976	448	0.27	442
2016/01/21 15:50:03	42.35127	46.976	450	0.27	444
2016/01/21 15:50:05	42.35127	46.976	452	0.27	446
2016/01/21 15:50:07	42.34935	46.964	454	0.258	448
2016/01/21 15:50:09	42.34935	46.964	456	0.258	450
2016/01/21 15:50:11	42.3551	46.964	458	0.258	452
2016/01/21 15:50:13	42.34935	46.964	460	0.258	454
2016/01/21 15:50:15	42.34935	46.964	462	0.258	456
2016/01/21 15:50:17	42.35127	46.952	464	0.246	458
2016/01/21 15:50:19	42.35892	46.952	466	0.246	460
2016/01/21 15:50:21	42.35127	46.952	468	0.246	462
2016/01/21 15:50:23	42.35127	46.952	470	0.246	464
2016/01/21 15:50:25	42.35127	46.952	472	0.246	466
2016/01/21 15:50:27	42.35127	46.952	474	0.246	468
2016/01/21 15:50:29	42.35127	46.952	476	0.246	470
2016/01/21 15:50:31	42.35127	46.952	478	0.246	472
2016/01/21 15:50:33	42.3551	46.94	480	0.234	474
2016/01/21 15:50:35	42.3551	46.94	482	0.234	476
2016/01/21 15:50:37	42.3551	46.94	484	0.234	478
2016/01/21 15:50:39	42.3551	46.94	486	0.234	480
2016/01/21 15:50:41	42.3551	46.94	488	0.234	482
2016/01/21 15:50:43	42.35127	46.928	490	0.222	484
2016/01/21 15:50:45	42.35127	46.928	492	0.222	486
2016/01/21 15:50:47	42.35127	46.928	494	0.222	488
2016/01/21 15:50:49	42.35127	46.928	496	0.222	490
2016/01/21 15:50:51	42.35892	46.928	498	0.222	492

Maron Property
Monitoring Well MW-4 (Slug-In)

2016/01/21 15:50:53	42.35127	46.928	500	0.222	494
2016/01/21 15:50:55	42.35892	46.928	502	0.222	496
2016/01/21 15:50:57	42.36084	46.916	504	0.21	498
2016/01/21 15:50:59	42.36084	46.916	506	0.21	500
2016/01/21 15:51:01	42.36084	46.916	508	0.21	502
2016/01/21 15:51:03	42.36084	46.916	510	0.21	504
2016/01/21 15:51:05	42.3551	46.916	512	0.21	506
2016/01/21 15:51:07	42.3551	46.916	514	0.21	508
2016/01/21 15:51:09	42.35127	46.904	516	0.198	510
2016/01/21 15:51:11	42.35892	46.904	518	0.198	512
2016/01/21 15:51:13	42.35127	46.904	520	0.198	514
2016/01/21 15:51:15	42.35127	46.904	522	0.198	516
2016/01/21 15:51:17	42.35892	46.904	524	0.198	518
2016/01/21 15:51:19	42.36084	46.892	526	0.186	520
2016/01/21 15:51:21	42.36084	46.892	528	0.186	522
2016/01/21 15:51:23	42.3551	46.892	530	0.186	524
2016/01/21 15:51:25	42.35892	46.88	532	0.174	526
2016/01/21 15:51:27	42.35127	46.88	534	0.174	528
2016/01/21 15:51:29	42.35127	46.88	536	0.174	530
2016/01/21 15:51:31	42.3551	46.868	538	0.162	532
2016/01/21 15:51:33	42.3551	46.868	540	0.162	534
2016/01/21 15:51:35	42.3551	46.868	542	0.162	536
2016/01/21 15:51:37	42.35892	46.856	544	0.15	538
2016/01/21 15:51:39	42.35127	46.856	546	0.15	540
2016/01/21 15:51:41	42.35892	46.856	548	0.15	542
2016/01/21 15:51:43	42.35127	46.844	550	0.138	544
2016/01/21 15:51:45	42.35127	46.844	552	0.138	546
2016/01/21 15:51:47	42.35892	46.844	554	0.138	548
2016/01/21 15:51:49	42.35127	46.844	556	0.138	550
2016/01/21 15:51:51	42.35127	46.832	558	0.126	552
2016/01/21 15:51:53	42.35892	46.832	560	0.126	554
2016/01/21 15:51:55	42.35127	46.832	562	0.126	556
2016/01/21 15:51:57	42.35892	46.82	564	0.114	558
2016/01/21 15:51:59	42.35892	46.82	566	0.114	560
2016/01/21 15:52:01	42.35127	46.82	568	0.114	562
2016/01/21 15:52:03	42.35127	46.82	570	0.114	564
2016/01/21 15:52:05	42.35892	46.82	572	0.114	566
2016/01/21 15:52:07	42.35892	46.82	574	0.114	568
2016/01/21 15:52:09	42.3551	46.808	576	0.102	570
2016/01/21 15:52:11	42.34935	46.808	578	0.102	572
2016/01/21 15:52:13	42.34935	46.808	580	0.102	574
2016/01/21 15:52:15	42.3551	46.808	582	0.102	576
2016/01/21 15:52:17	42.34935	46.808	584	0.102	578
2016/01/21 15:52:19	42.3551	46.802	586	0.096	580
2016/01/21 15:52:21	42.36084	46.802	588	0.096	582
2016/01/21 15:52:23	42.3551	46.802	590	0.096	584
2016/01/21 15:52:25	42.36084	46.802	592	0.096	586
2016/01/21 15:52:27	42.3551	46.802	594	0.096	588
2016/01/21 15:52:29	42.36084	46.802	596	0.096	590
2016/01/21 15:52:31	42.3551	46.79	598	0.084	592
2016/01/21 15:52:33	42.3551	46.79	600	0.084	594
2016/01/21 15:52:35	42.34935	46.79	602	0.084	596
2016/01/21 15:52:37	42.34935	46.79	604	0.084	598
2016/01/21 15:52:39	42.34935	46.79	606	0.084	600
2016/01/21 15:52:41	42.3417	46.79	608	0.084	602
2016/01/21 15:52:43	42.3551	46.778	610	0.072	604
2016/01/21 15:52:45	42.3551	46.778	612	0.072	606
2016/01/21 15:52:47	42.3551	46.778	614	0.072	608
2016/01/21 15:52:49	42.3551	46.778	616	0.072	610
2016/01/21 15:52:51	42.3551	46.778	618	0.072	612
2016/01/21 15:52:53	42.35127	46.766	620	0.06	614
2016/01/21 15:52:55	42.35127	46.766	622	0.06	616
2016/01/21 15:52:57	42.35127	46.766	624	0.06	618
2016/01/21 15:52:59	42.35127	46.766	626	0.06	620
2016/01/21 15:53:01	42.35892	46.766	628	0.06	622
2016/01/21 15:53:03	42.3551	46.754	630	0.048	624
2016/01/21 15:53:05	42.34935	46.754	632	0.048	626
2016/01/21 15:53:07	42.3551	46.754	634	0.048	628
2016/01/21 15:53:09	42.3551	46.754	636	0.048	630
2016/01/21 15:53:11	42.3551	46.754	638	0.048	632
2016/01/21 15:53:13	42.3551	46.754	640	0.048	634
2016/01/21 15:53:15	42.35892	46.742	642	0.036	636
2016/01/21 15:53:17	42.35127	46.742	644	0.036	638
2016/01/21 15:53:19	42.35892	46.742	646	0.036	640
2016/01/21 15:53:21	42.35127	46.742	648	0.036	642
2016/01/21 15:53:23	42.35892	46.742	650	0.036	644
2016/01/21 15:53:25	42.35892	46.742	652	0.036	646
2016/01/21 15:53:27	42.36467	46.742	654	0.036	648
2016/01/21 15:53:29	42.35892	46.742	656	0.036	650
2016/01/21 15:53:31	42.35892	46.73	658	0.024	652
2016/01/21 15:53:33	42.35892	46.73	660	0.024	654
2016/01/21 15:53:35	42.35127	46.73	662	0.024	656
2016/01/21 15:53:37	42.35127	46.73	664	0.024	658
2016/01/21 15:53:39	42.35892	46.73	666	0.024	660
2016/01/21 15:53:41	42.35892	46.73	668	0.024	662
2016/01/21 15:53:43	42.35892	46.73	670	0.024	664
2016/01/21 15:53:45	42.3551	46.718	672	0.012	666
2016/01/21 15:53:47	42.35892	46.73	674	0.024	668
2016/01/21 15:53:49	42.3551	46.718	676	0.012	670
2016/01/21 15:53:51	42.3551	46.718	678	0.012	672
2016/01/21 15:53:53	42.36084	46.718	680	0.012	674
2016/01/21 15:53:55	42.3551	46.718	682	0.012	676
2016/01/21 15:53:57	42.3551	46.718	684	0.012	678
2016/01/21 15:53:59	42.3551	46.718	686	0.012	680
2016/01/21 15:54:01	42.36084	46.718	688	0.012	682
2016/01/21 15:54:03	42.36084	46.718	690	0.012	684
2016/01/21 15:54:05	42.36467	46.706	692	0	686

END OF DATA FILE OF DATALOGGER FOR WINDOWS

APPENDIX F/ QUALIFICATIONS OF METCO PERSONNEL

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/DSPS 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.
- Member of the Wisconsin Fabricare Institute

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 700 environmental sites.

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.

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.

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.

Jon Jensen

Professional Title

- Staff Scientist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#1294924).

Education

Includes B.S. in Geography with and Environmental Science minor from University of Wisconsin – La Crosse: Applicable courses successfully completed include Interpretation of Aerial Photographs, Intro to GIS, Advanced Remote Sensing, Fundamentals of Cartography, Biogeography, and Conservation of Global Environments.

Work Experience

With METCO since July, 2014 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.

Matthew C. Michalski

Professional Title

- Hydrogeologist

Credentials

- Registered through the Wisconsin Department of Safety and Professional Services as a PECFA consultant (#823519).
- Member of the Wisconsin Groundwater Association
- Member of the Minnesota Groundwater Association
- Member of the National Groundwater Association
- Member of the American Institute of Professional Geologist
- Member of the Geological Society of America

Education

Includes B.S. in Geology with an emphasis in Hydrogeology and Water Chemistry from the University of Wisconsin-Eau Claire, completion of Western Michigan University's Hydrogeology Field Camp, a B.S. In Geography from the University of Wisconsin-La Crosse. Applicable courses successfully completed include Hydrogeology, Contaminant Hydrogeology, Aqueous Geochemistry, Geomorphology and Aerial Photograhy interpretation, Sedimentology and Stratigraphy, Structural Geology, Mineralogy and Petrology, Hazardous Waste Operation and Emergency Response, Surface Geophysics, Principles and Practices of Groundwater Sampling and Monitoring, Principles and Practices of Aquifer Testing, Principles of Well Drilling and Installation, Remediation Design and Implementation, Water Resources, Environmental Hazards and Land Use, and Advanced Map Design.

Post-Graduate Education

40-hour OSHA Hazardous Materials Safety Training course.

Work Experience

With METCO since May 2016 as a Hydrogeologist and from August 2012 to August 2014 as a Staff Scientist. Duties have included: soil and groundwater sampling, 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), and operation and maintenance of remedial systems, site mapping, data reduction and analysis, and reporting.

APPENDIX G/ STANDARD OF CARE

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

7/28/16
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

7/28/16
Date